



# Construction Environmental Management Plan

**Access Logistics Estate**  
**884-928 Mamre Road, Kemps Creek**

## **Altis Property Partners**

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## 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 Altis Property Partners (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.



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## 1.0 Introduction

### 1.1 Overview

SLR Consulting Australia (SLR) has been engaged by Burton Contractors Pty Ltd (Burton) (Construction Contractor) to prepare a Construction Environmental Management Plan (CEMP) for the Access Logistics Park project. This project involves the construction of a warehouse and distribution centre, with Burton acting as the Principal Contractor and primary owner of the CEMP. Altis Property Partners (Altis), now Barings Real Estate Australia (Barings) (Applicant) as of August 2022, received development approval for the project from the NSW Department of Planning and Environment on 9 March 2022 (SSD 17647189).

The project is located on Lots 52 and 53 at 884-928 Mamre Road, Kemps Creek, NSW (DP 259135) within the Penrith Local Government Area (LGA), as depicted in **Figure 1**. It is part of the Mamre Road Precinct (MRP) within the Western Sydney Employment Area (WSEA), which spans multiple LGAs and is being developed for industrial purposes, particularly warehousing and distribution centres that generate employment.

This CEMP specifically covers civil works associated with the warehouse and distribution centre approved under Stage 1 and 2 of SSD 17647189. The project staging includes:

- OSD storage area, bio-retention basins, and residual areas.
- Proposed warehouse or distribution centre.
- Landscaping along the Mamre Road frontage and land reserved for future Mamre Road widening.
- Residual lot to be further subdivided to create industrial allotments in Stage 2.
- Proposed industrial lots (Stage 2 subdivision).

A copy of the consent for SSD 17647189 is attached as Appendix A. The Environmental Impact Statement and consent documents can be found on the [DPHI Major Projects](#).

### 1.2 Context

This CEMP has been prepared to address the specific requirements of SSD 17647189 and in consideration of the guidelines for the preparation of Environmental Management Plans issued by the NSW Department of Planning, Housing and Infrastructure (DPHI).

This CEMP contains the following key components:

- A description of the construction activities to be undertaken on site, including construction program and timing.
- Environmental Management Framework, including key contacts, roles, and responsibilities.
- Monitoring, inspections, and reporting requirements.
- Complaints management strategy.

The following specialist management plans have been prepared to support this CEMP:

- Construction Traffic Management Plan (CTMP)
- Erosion and Sediment Control Plan (ESCP)



- Dam Dewatering Management Plan (DDMP)
- Construction Noise and Vibration Management Plan (CNVMP)
- Construction Air Quality Management Plan (CAQMP)
- Waste Management Plan (WMP)
- Unexpected Finds Protocol (UFP)
- Community Consultation and Complaints Handling Strategy (CCCHS)

Outside of the specific requirements of Condition C2, the following Sub Plan is required as per Condition B53:

- Flood Emergency Response Plan (FERP)

### 1.3 Scope

This CEMP has been prepared to satisfy Conditions C1 - C4 of SSD 17647189. The specific requirements of these consent conditions, along with where these requirements have been addressed within this CEMP, are listed in **Table 1**. In addition to this, all conditions of consent relevant to this CEMP are attached as **Appendix B**.

**Table 1: Scope**

| SSD-17647189                                                                                                                                                                                                                                                                                                                                                                                                                                   | CEMP Section                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| C1. Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                  |
| a) detailed baseline data;                                                                                                                                                                                                                                                                                                                                                                                                                     | Refer to sub-plans referenced in Appendix C - J                                                                                                  |
| b) details of: <ul style="list-style-type: none"> <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> | <ul style="list-style-type: none"> <li>(i) Section 3.2.</li> <li>(ii) Section 3.2</li> <li>(iii) Refer to specialist management plans</li> </ul> |
| c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                                                                                                                                                                                                                                                           | Sections 4                                                                                                                                       |
| d) a program to monitor and report on the: <ul style="list-style-type: none"> <li>(i) impacts and environmental performance of the Stage 2 development; and</li> <li>(ii) effectiveness of the management measures set out pursuant to paragraph (c) above.</li> </ul>                                                                                                                                                                         | Section 5                                                                                                                                        |
| 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 6                                                                                                                                        |
| f) a program to investigate and implement ways to improve the environmental performance of the development over time;                                                                                                                                                                                                                                                                                                                          | Sections 7                                                                                                                                       |
| g) a protocol for managing and reporting any: <ul style="list-style-type: none"> <li>(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);</li> </ul>                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>(i) Section 3.4</li> <li>(ii) Section 3.5</li> <li>(iii) Section 3</li> </ul>                             |



| SSD-17647189                                                                                                                                                                                                                                                                                                                     | CEMP Section |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| (ii) complaint<br>(iii) failure to comply with statutory requirements; and                                                                                                                                                                                                                                                       |              |
| h) a protocol for periodic review of the plan.<br>Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.                                                                                                                                      | Section 7    |
| 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 Plan    |
| 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)                                                                                                                                                                                                                                                                       | Appendix C   |
| b) Erosion and Sediment Control Plan (see Condition B35)                                                                                                                                                                                                                                                                         | Appendix D   |
| c) Dam Decommissioning Plan (see Condition B34)                                                                                                                                                                                                                                                                                  | Appendix E   |
| d) Construction Noise and Vibration Management Plan (see Condition B60)                                                                                                                                                                                                                                                          | Appendix F   |
| e) Construction Air Quality Management Plan (see Condition B83)                                                                                                                                                                                                                                                                  | Appendix G   |
| f) Construction and Demolition Waste Management Plan (see Condition B106(d))                                                                                                                                                                                                                                                     | Appendix H   |
| g) Unexpected Finds Protocol (see Conditions B86 and B89)                                                                                                                                                                                                                                                                        | Appendix J   |
| h) Community Consultation and Complaints Handling                                                                                                                                                                                                                                                                                | Appendix K   |
| C4. The Applicant must:<br>a) not commence construction of the development until the CEMP is approved by the Planning Secretary; and<br>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. | Noted        |

## 1.4 Objectives

The objectives of this CEMP are to:

- Ensure the construction environmental management requirements for the site are adhered to in line with the mitigation measures.
- Establish the framework for managing and mitigating the potential for adverse environmental impacts because of construction.
- Clearly and concisely document the commitments made in the Environmental Impact Statement (EIS) (Willowtree Planning, 2021) and Response to Submissions (RTS, Willowtree Planning 2022) including relevant management plans, that are required to be implemented during construction.
- Demonstrate to Department of Planning, Housing, and Infrastructure (DPHI) how Altis proposes to meet all regulatory obligations.
- Outlines the controls to be implemented by Burton Contractors in order to meet those obligations.



- Clearly and concisely document the conditions imposed by SSD 17647189 that are required to be implemented and/or complied with during the construction phase.
- Assist to establish the development in a manner that avoids (where possible) or minimises impact to the surrounding environment and community.

It is noted that this CEMP does not address workplace health and safety (WHS) requirements.

## 1.5 Preparation

This CEMP has been prepared by SLR and the author qualifications are listed in **Table 2** below.

**Table 2: Author Qualifications**

| Name, Role & Discipline                                                                                | Qualifications                                                                                                                                 | Experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stephen Shoesmith</b><br>Principal Consultant - Environmental Management, Permitting and Compliance | Master of Integrated Environmental Management<br><br>Bachelor of Environmental Science                                                         | Stephen is a Principal Consultant in the SLR Environmental Assessment & Management team and has demonstrated environmental management, impact assessment and policy experience.<br><br>Stephen has significant site and corporate experience in environmental management, project management, environmental impact assessment, land restoration, decommissioning and closure planning, risk assessment as well as facilitation and preparation of Management Plans.<br><br>Stephen has also worked as a regulator within the Department of Planning and Environment, which included post approval reviews, Policy reforms and Major Project Assessments. |
| <b>Alexis Parmenter</b><br>Project Consultant - Environmental Management, Permitting and Compliance    | Bachelor of Environmental Science                                                                                                              | Alexis is a Project Consultant in the SLR Environmental Assessment and Management team with 12 months experience in the Environmental consulting sector.<br><br>Alexis has an interest in environmental impact assessments, management plans, environmental management systems, compliance, approvals and anticipates broadening her expertise in the marine science sector.                                                                                                                                                                                                                                                                             |
| <b>Harry Peter</b><br>Project Consultant – Environmental Management, Permitting and Compliance         | Master of Urban Planning & Environment, RMIT University, Melbourne<br><br>Bachelor of Architecture, College of Architecture Trivandrum, Kerala | Harry is a Project Consultant at SLR within the Environmental Management, Permitting & Compliance team. He has a background as a Town Planner, where he has assisted clients and developers in obtaining planning permit approvals for small to medium-scale developments, primarily in Victoria.<br><br>Harry has also worked for a residential volume builder as a Client Manager, securing Developer Approvals (DA's) and Building Permits for home buyers. Additionally, he has experience in architecture and urban design, having worked as an Architect in Kerala, India for about 1.5 years.                                                     |

## 1.6 Implementation

As per the condition C2 stated under the Development Consent (SSD 17647189) from NSW Department of Planning and Environment, Altis (applicant) must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary.





Additionally, in accordance with condition C4, Altis must:

- not commence earthworks, dam dewatering or construction of the development until the CEMP is approved by the Planning Secretary; and
- Carry out earthworks or the construction of the development in accordance with the CEMP approved by the Planning Secretary from time to time.

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

## 1.7 Consultation

Consultation for this CEMP will be / has been undertaken with the applicable stakeholders as per SSD 17647189. This is summarised in **Table 3**.

**Table 3: Consultation**

| Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Comment                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Evidence of Consultation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                |
| <p>A11. Where conditions of this consent require consultation with an identified party, the Applicant must:</p> <p>a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval.</p> <p>b) provide details of the consultation undertaken including:</p> <ol style="list-style-type: none"> <li>i. the outcome of that consultation, matters resolved and unresolved.</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> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Evidence of consultation including the outcome and any required details are included within the relevant sub plans and consultation records referenced within <b>Appendix C – L</b>.</p>                                                                    |
| <p>A39. Within three months of the commencement of earthworks for the development and until all components of the development are constructed and operational, the Applicant must 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:</p> <p>(a) comprise at least one representative of the Applicant, the Applicant's ER, and relevant consent holders in the MRP;</p> <p>(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;</p> <p>(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;</p> <p>(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;</p> <p>(e) review community concerns or complaints with respect to environmental management;</p> | <p>This forum exists and any findings / outcomes from the forum will be communicated between the Applicant and the contractor and considered further as required during the construction phase.</p> <p>Refer to <b>Section 1.7.2</b> for more information.</p> |



| Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Comment                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(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</p> <p>(g) provide the Planning Secretary with an update and strategies, if a review under subclause 39(d) and 39(e) identifies additional measures and processes are required to be implemented by the working group.</p>                                                                                                                 |                                                                                                                                                                                                                                                                |
| <b>Traffic and Access</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                |
| <p>B1. Prior to the commencement of earthworks for the development, the Applicant must prepare a Construction Traffic Management Plan for the development to the satisfaction of the Planning Secretary.</p> <p>a) The plan must form part of the CEMP required by condition C2 and must:</p> <p>b) be prepared in consultation with Council and TfNSW.</p>                                                                                                                                                               | <p>A Construction Traffic Management Plan was prepared in consultation with TfNSW and Council and is referenced in <b>Appendix C</b>.</p>                                                                                                                      |
| <b>Erosion and Sediment Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                |
| <p>B35. Prior to the commencement of earthworks or other surface disturbance, the Applicant must prepare an Erosion and Sediment Control Plan (ESCP) to the satisfaction of the Planning Secretary. The ESCP must:</p> <p>b) be prepared in consultation with EGH, Sydney Water and council and include written evidence of the outcomes of the consultation process and how the recommendations have been incorporated into the ESCP.</p>                                                                                | <p>The ESCP has been prepared in consultation with the Council referenced in <b>Appendix D</b>.</p> <p>Evidence of consultation with the Council is included within Consultation Records referenced in <b>Appendix L</b>.</p>                                  |
| <b>Stormwater Management System Design</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                |
| <p>B39. Within three months of the date of this consent, or as otherwise agreed by the Planning Secretary, the Applicant must design the stormwater management system to the satisfaction of the Planning Secretary. The stormwater management system design must:</p> <p>a) be prepared in consultation with EHG, Sydney Water and Council and include written evidence of the outcomes of the consultation process and how the recommendations have been incorporated into the stormwater management system design.</p> | <p>The Stormwater Management System Design has been prepared in consultation with the Council.</p> <p>Evidence of consultation with the Council is included within Consultation Records referenced in <b>Appendix L</b>.</p>                                   |
| <b>Construction Noise and Vibration Management Plan</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                |
| <p>B60. 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:</p> <p>f). describe the community consultation undertaken to develop the strategies in condition B60(e).</p>                                                                                                                                                                         | <p>Refer to Construction Noise and Vibration Management Plan referenced in <b>Appendix F</b>.</p>                                                                                                                                                              |
| <b>Community Engagement</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                |
| <p>B103. The Applicant must consult with the community regularly throughout the development, including consultation with the nearby sensitive receivers identified in Appendix 2, relevant regulatory authorities, Registered Aboriginal Parties, and other interested stakeholders.</p>                                                                                                                                                                                                                                  | <p>Refer to Section 7.2 of the Noise and Vibration Management Plan referenced in Appendix F, for details regarding community consultation.</p> <p>As per condition B103, there will be on-going community consultation throughout the project development.</p> |



### 1.7.2 Working Group

To ensure compliance with Condition A39, the following measures and actions will be incorporated:

- The project team will promptly join and actively participate in the designated working group within three months of commencing earthworks. This will continue until all components of the development are fully constructed and operational.
- The working group will include at least one representative from our project team, the Environmental Representative (ER), and relevant consent holders in the MRP, as specified.
- The working group will hold periodic meetings throughout the year to discuss and implement strategies to improve monitoring and coordination of the approved industrial developments within the MRP.
- Meeting agendas will focus on formulating and executing measures to mitigate potential cumulative environmental impacts.
- The outcomes of the working group meetings, along with actions to be undertaken, will be regularly communicated to the local Council, Transport for New South Wales (TfNSW), Sydney Water, and the Planning Secretary.
- A dedicated communication plan will be established to ensure timely and transparent information sharing.
- The working group will periodically review the performance of approved industrial developments in the MRP, analyzing trends related to construction traffic, erosion and sediment control, noise, stormwater management, and waterway health objectives.
- The project team will actively participate in data collection and analysis to support these reviews.
- Community concerns or complaints regarding environmental management will be reviewed during working group meetings.
- A responsive action plan will be developed to address and resolve these concerns effectively.
- The working group will identify and implement interim traffic safety measures to manage construction traffic.
- These measures will be coordinated, communicated, funded, and monitored as part of a comprehensive traffic management strategy.
- If reviews conducted under subclauses 39(d) and 39(e) identify the need for additional measures, the working group will develop and implement updated strategies and processes.
- The Planning Secretary will be provided with regular updates on these strategies and any required adjustments.



## 2.0 Development Description

### 2.1 Location

The Site is located at 884-928 Mamre Road, Kemps Creek NSW and is legally described as Lot 52-53 in Deposited Plan 259135. The Site is situated approximately 5km from Badgerys Creek, 20km from Parramatta, and 39km from the Sydney CBD as shown in **Figure 1**. More details of the site are identified in **Table 4**.

**Figure 1: Site Locality**



**Table 4: Site Information**

| Attribute                   | Description                         |
|-----------------------------|-------------------------------------|
| Street Address              | 884-928 Mamre Road, Kemps Creek NSW |
| Lot and Deposited Plan (DP) | Lots 52 & 53 in DP 259135           |
| Site Area                   | 20.3 ha                             |
| Local Government Area (LGA) | Penrith City Council                |



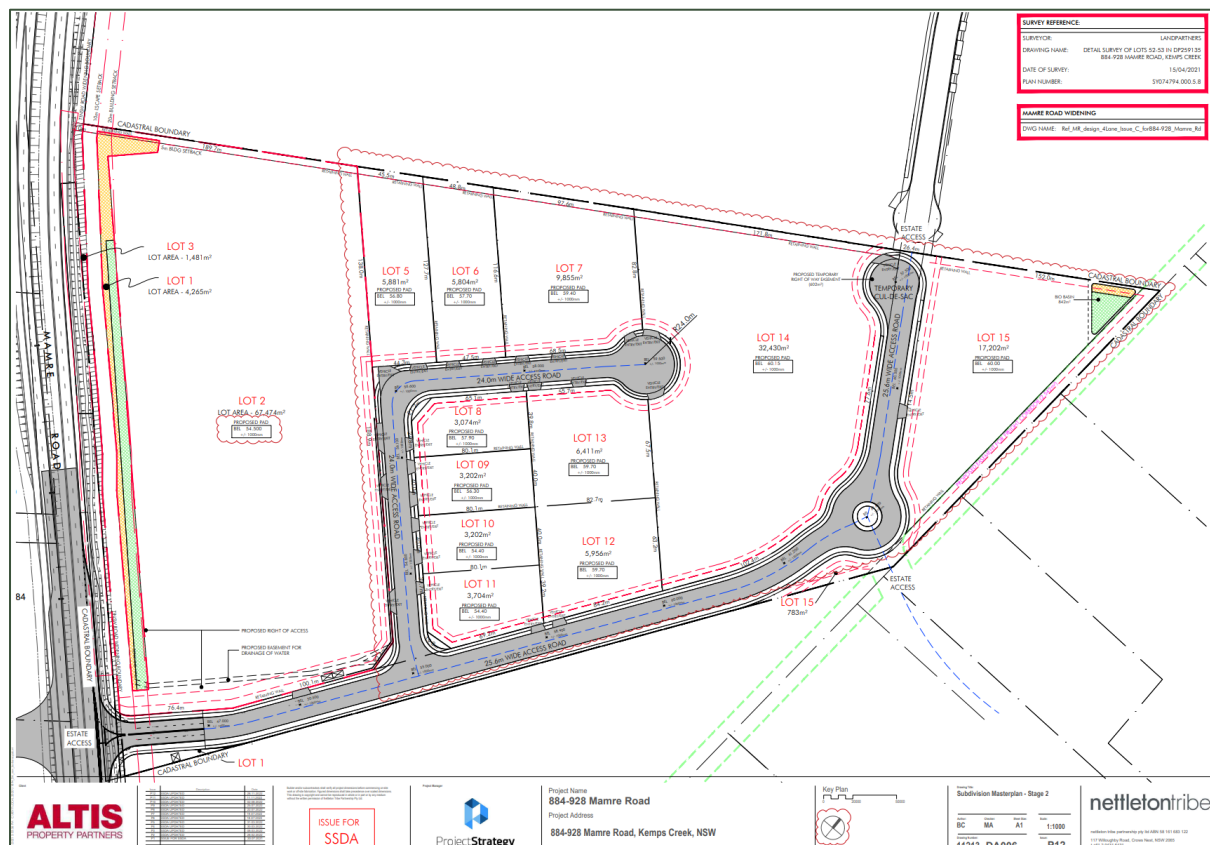


| Attribute | Description            |
|-----------|------------------------|
| Zoning    | IN1 General Industrial |

## 2.2 Proposed Development

The proposed development is for the subdivision and construction of a one storey warehouse facility at 884-928 Mamre Road, Kemps Creek NSW. The site is proposed to be subdivided into 4 development lots in Stage 1 and 11 development lots in Stage 2 (**Figure 2**). A TfNSW road widening has been proposed along the western site boundary within Lot 3. The proposed development will include the construction of a one storey warehouse with an undercroft carpark and associated ancillary office space, car parking areas, truck circulation and loading zones, fire brigade access and landscaping. A new access road is also proposed with access along the west site boundary.

**Figure 2: Proposed Development – Stage 1 and 2 Estate Masterplan**



This CEMP has been prepared to address site preparation works, including bulk earthworks, and the construction of Stage 1 and 2 of the development. The Staged works include dam dewatering, cut and fill operations, and pad construction as outlined in the concept masterplan.

The development involves the following key components:

- Demolition of existing structures.



- Comprehensive bulk earthworks to prepare the site.
- A staged 1 and 2 residual lot subdivision.
- Construction and operation of a warehouse and distribution building on proposed Lot 2, with a Gross Floor Area (GFA) of 39,161 square meters (m<sup>2</sup>).
- Development of hardstand areas to support the warehouse and distribution operations.
- Construction of loading docks for efficient logistics operations.
- Inclusion of office spaces ancillary to the warehouse and distribution center.
- Development of parking areas and landscaping to enhance site aesthetics and functionality.
- Installation of necessary site servicing infrastructure.
- Development of stormwater infrastructure to manage site drainage.
- Construction of estate roads and intersections to provide access and connectivity within the industrial estate.

The following plant and equipment in **Table 5** will be used for the construction purposes.

**Table 5: Plant and Equipment**

| Plant and Equipment's                     |                                 |
|-------------------------------------------|---------------------------------|
| Franna crane or small excavator rig crane | Paving machines                 |
| Truck mounted drill rig                   | Profiler                        |
| Large trucks for removal of material      | Portable roller/compactor       |
| Vacuum trucks                             | Power generator                 |
| Concrete trucks/pumps                     | Elevated work platforms         |
| Piling rigs                               | Traffic control vehicles        |
| Concrete form work                        | Hand tools and jack hammers     |
| Large excavators                          | Temporary fencing and barriers  |
| Pole grab truck                           | Permanent and temporary signage |
|                                           | Variable message boards         |

Additionally, the project includes the construction of new internal roads, a left-in and left-out intersection on Mamre Road, ancillary acceleration and deceleration lanes, and stormwater infrastructure. Altis has not yet identified an intended tenant for the building.

## 2.3 Site Access

During the lifetime of the project, all construction personnel must use the primary access via Darrabarra Avenue to access the Site. The primary construction will be staged to accommodate the construction staging. The following staging is show in the



Annexure C Traffic Staging Plans (Refer to CTMP in **Appendix C**);

### Stage 1 Works – 8 weeks

(Maximum Daily movements; 3 HV & 10 LV in the AM and 3 HV & 10 LV in the PM, refer to Figure 5 Total Vehicle Movement (Discipline / Month);

- Site Establishment
- Clearing and Grubbing
- Demolition
- Dam Dewatering
- Utilisation of the Existing Access off Mamre Road.

Utilization of the Stage 1 access will allow the completion of activities described in items a) - d) outlined above while approvals are sought for access via Darrabarra Avenue. Upon approval to install project access via Darrabarra Avenue, all traffic will be directed via this entry off Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised.

### Stage 2 Works – 46 weeks

- Bulk Earthworks
- Retaining Walls
- Bio-Basins
- Utilities (sewer, stormwater, electrical, communications and potable water)
- Pavement Construction

During these works, all project access will be via Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised.

### Stage 3 Works – 13 weeks

- Landscaping
- Fencing, Signage and Line marking

During these works, all project access will be via Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised.

## 2.4 Construction Hours

Construction Hours will be in accordance with Conditions B57 and B58 of Development Consent SSD-17647189, which are reproduced below.

As per Condition B57, the Applicant must comply with the hours detailed in **Table 6** unless otherwise agreed in writing by the Planning Secretary.

**Table 6: Hours of Work**

| Activity                    | Day                     | Time       |
|-----------------------------|-------------------------|------------|
| Earthworks and Construction | Monday-Friday           | 7am to 6pm |
|                             | Saturday                | 8am to 1pm |
|                             | Sunday / Public Holiday | No work    |



As per Condition B58, works outside of the hours identified in condition B57 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.

Refer to the Construction Noise and Vibration Management Plan referenced in Appendix F for more information.

## 2.5 Construction Contact Details

The Burton Representative will be responsible for all environmental management at the facility. Contact Details are outlined in **Table 7**.

**Table 7: Contact Details**

| Role                                                                     | Company                        | Name          | Contact Number      | Contact Email                             |
|--------------------------------------------------------------------------|--------------------------------|---------------|---------------------|-------------------------------------------|
| <b>Project Manager</b>                                                   | Burton Contractors             | Mustafa Ak    | <u>0448 913 675</u> | Mustafa.ak@burtoncontractors.com.au       |
| <b>Project Engineer</b>                                                  | Burton Contractors             | Luke Wood     | 0418 714 678        | <u>luke.wood@burtoncontractors.com.au</u> |
| <b>Project Site Supervisor</b>                                           | Burton Contractors             | Tom Weber     | <u>0400 150 861</u> | tom.weber@burtoncontractors.com.au        |
| <b>Safety Officer</b>                                                    | Burton Contractors             | Faten Samaan  | 0407 954 102        | faten.samaan@burtoncontractors.com.au     |
| <b>Contractor's Environmental Site Representative (CESR)</b>             | Burton Contractors             | Sul Ghani     | 0499 182 768        | sul.ghani@burtoncontractors.com.au        |
| <b>Traffic Manager</b>                                                   | Burton Contractors             | John Bailey   | 0447 783 383        | john.bailey@burtoncontractors.com.au      |
| <b>Traffic Management Representative</b>                                 | Allied Traffic Management      | Nass Chami    | 0427 876 539        | nass.c@alliedmanagement.com.au            |
| <b>Certified Professional in Erosion and Sedimentary Control (CPESC)</b> | OCHRE Environmental Management | Bradley Cole  | 0407 782 830        | brad@ochreenvironmental.com.au            |
| <b>Communications and Stakeholder Advisor</b>                            | Burton Contractors             | Joshua Macree | 0429 528 430        | joshua.Macree@burtoncontractors.com.au    |
| <b>Environmental Representative (ER)</b>                                 | BBEnviro Pty Ltd               | Ben Bracken   | 0410 409 897        | Ben.bracken@bbenviro.com.au               |





## 2.6 Construction Activities

**Table 8** summarises key aspects of the construction activities and indicative dates for commencement and completion of each construction stage.

**Table 8: Construction Activities**

| Stage                                                                                                                                                                                                                                                                                 | Dates                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Site Establishment:</b> A temporary site compound will be required that will include site office building, lunch facilities, storage containers and port-a-loo facilities.                                                                                                         | 15/10/2024 to 05/11/2024 Approximately 15 Days (3 Weeks)                                          |
| <b>Earthworks:</b> Bulk earth works activities associated with the subdivision and preparation for construction of internal roads                                                                                                                                                     | 06/11/2024 to 25/03/2025 (includes Christmas Shut Down Period) Approximately 89 Days (17.8 Weeks) |
| <b>Pavement Construction:</b> Development of internal roads associated with the sub-division                                                                                                                                                                                          | 26/03/2025 to 14/07/2025 Approximately 76 Days (15.2 Weeks)                                       |
| <b>Installation of services:</b> Installation of utilities within the subdivision                                                                                                                                                                                                     | 15/07/2025 to 18/12/2025 Approximately 113 Days (22.6 Weeks)                                      |
| <b>Finishing works:</b> Upon completion, the site compound would be removed, and the area would be revegetated where required to return the area to its natural state prior to site establishment. This stage includes the construction of footpaths and all landscaping requirements | 19/12/2025 to 10/02/2026 (includes Christmas Shut Down Period) Approximately 27 Days (3.9 Weeks)  |



## 3.0 Environmental Management Framework

### 3.1 Roles and Responsibilities

The key personnel responsible for environmental management during construction of the facility are listed in **Table 9**.

**Table 9: Personnel Responsible**

| Role                           | Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project Manager</b>         | <ul style="list-style-type: none"> <li>Handle all environmental reporting responsibilities associated with the development.</li> <li>Ensure timely receipt of documents from relevant stakeholders.</li> <li>Record, notify, investigate, and respond to any environmental incidents.</li> <li>Develop and implement corrective actions as necessary.</li> <li>Ensure appropriate management response and handling procedures are instigated and carried through in the event of an incident and/or non-compliance.</li> <li>Maintain overall responsibility for compliance with approval requirements.</li> <li>Regularly monitor the implementation of the CEMP to ensure it is carried out in accordance with the document and the terms of consent.</li> <li>Liaise with relevant stakeholders to keep them informed of the project's progress.</li> <li>Consult and engage with subcontractors or interfacing contractors regarding the environmental management of the Site.</li> <li>Liaise with property owners, in consultation with CCLR, to coordinate access and address specific property-related issues arising from the upgrade works.</li> <li>Provide adequate environmental inductions and training to employees, contractors, and the Contractors regarding their requirements under the CEMP.</li> <li>Prepare, review, and update Management Plans as needed.</li> </ul> |
| <b>Project Site Supervisor</b> | <ul style="list-style-type: none"> <li>Act as the primary contact overseeing day-to-day operations at the site.</li> <li>Serve as the main point of contact for all personnel in relation to site works and environmental management.</li> <li>Review risks and identify potential opportunities and issues with the project.</li> <li>Monitor and inspect site activities for compliance with relevant environmental requirements.</li> <li>Ensure management plans have been submitted and approved prior to the commencement of works.</li> <li>Regularly monitor the implementation of the CEMP to ensure compliance with the document and terms of consent.</li> <li>Ensure all site activities comply with the CEMP.</li> <li>Ensure all subcontractors are informed of CEMP requirements prior to engagement and commencement of works.</li> <li>Ensure environmental incidents and non-compliances are reported and investigated within the SSD approved timelines.</li> <li>Report and investigate all environmental incidents in accordance with the CEMP.</li> <li>Ensure site inductions and training requirements are completed as required.</li> <li>Provide necessary training to all site personnel to meet CEMP requirements.</li> </ul>                                                                                                                                     |
| <b>Project Engineer</b>        | <ul style="list-style-type: none"> <li>Maintain the complaints register and make available the complaints register to the Contractors Project Manager on a daily basis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



| Role                                                         | Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | <ul style="list-style-type: none"> <li>Be available for contact by local residents and the community at all reasonable times to answer any questions.</li> <li>Site support to liaise with property owners to co-ordinate access and to deal with specific property related issues arising from the upgrade works.</li> <li>Lead the delivery of communication and community engagement strategies and plans.</li> <li>Facilitate meetings, forums and arranging interviews to address concerns from community.</li> <li>Provide advice and participate with the project teams to improve and enhance the delivery of communication services to the community.</li> <li>Build, maintain collaborative and consultative working relationships with internal and external stakeholders.</li> <li>Be available for contact by local residents, key stakeholders, and community representatives to answer queries and provide more information or feedback.</li> </ul>      |
| <b>Traffic Manager</b>                                       | <ul style="list-style-type: none"> <li>Implementing the CTMP to manage traffic flow and minimize disruptions.</li> <li>Coordinating with local authorities to obtain necessary permits and approvals for road closures and diversions.</li> <li>Installing and maintaining appropriate signage and communication measures to guide traffic.</li> <li>Monitoring traffic conditions and adjusting the CTMP as needed to address any issues.</li> <li>Ensuring compliance with traffic safety regulations and managing the movement of heavy vehicles.</li> <li>Responding to and managing traffic incidents or emergencies promptly.</li> <li>Communicating with stakeholders, including the local community and businesses, to provide updates on traffic changes and construction activities.</li> </ul>                                                                                                                                                               |
| <b>Safety Officer</b>                                        | <ul style="list-style-type: none"> <li>Ensure the legislative and corporate safety, health and environment management measures and controls are implemented and maintained.</li> <li>Participate in risk and hazard identification and control.</li> <li>Participate in incident investigations and management.</li> <li>Participate in health and safety inspections.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Contractor's Environmental Site Representative (CESR)</b> | <ul style="list-style-type: none"> <li>Undertake weekly environmental site inspections.</li> <li>Provide the Site Supervisor advice and guidance relating to Environmental reporting responsibilities associated with the development.</li> <li>Provide the Site Supervisor advice and guidance relating to environmental management and compliance and relevant legislation.</li> <li>Provide guidance for the reporting, notification, investigation, and response to any environmental incidents and, where necessary, develop and implement corrective actions.</li> <li>Providing advice to the Site Supervisor in relation to any subcontractors or interfacing contractors regarding the environmental management of the Site.</li> <li>Ensure environmental risks of works are identified and appropriate mitigation measures are implemented.</li> </ul> <p><i>Note: The Environmental Site Representative (ESR) is affiliated with Burton Contractor.</i></p> |
| <b>Communications and Stakeholder Advisor</b>                | <ul style="list-style-type: none"> <li>Lead and manage the community involvement activities, including liaison with property owners and key stakeholders.</li> <li>Available as a daily contact to the public handling of enquiries / complaints management / interface issues.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



| Role                                                                  | Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental Representative (ER)</b>                              | <ul style="list-style-type: none"> <li>• Provide oversight including overseeing subdivisions, and construction activities.</li> <li>• Provide liaison between the Applicant and the Planning Secretary regarding environmental performance.</li> <li>• Review the CEMP and other relevant documents to ensure they comply with regulatory requirements.</li> <li>• Monitors implementation of the CEMP and recommends improvements to work practices to minimize adverse environmental impacts.</li> <li>• Assists in audits commissioned by the Department and helps resolve community complaints related to environmental issues.</li> <li>• Provides advice on construction management in coordination with adjoining sites and attends consultative meetings related to environmental performance.</li> <li>• Prepare and submit Environmental Representative Monthly Reports to regulatory agencies.</li> <li>• Attend the Mamre Road Precinct Working Group.</li> <li>• Review of site and routine site inspections</li> <li>• Make a written statement to the Planning Secretary confirming that erosion and sediment controls are operational prior to the commencement of earthworks and other construction activities.</li> <li>• Verify that disturbed areas have been adequately stabilized at the completion of earthworks and other construction activities.</li> </ul> <p><i>Note: The Environmental Representative (ER) is not affiliated with the contractor and meet the independence requirements specified under Condition A36 of SSD 17647189.</i></p> |
| <b>Certified Professional in Erosion and Sediment Control (CPESC)</b> | <ul style="list-style-type: none"> <li>• Conduct monthly audits of the erosion and sediment controls for the duration of earthworks and construction and for a further 12 months following the completion of construction works to ensure the controls remain effective in achieving the construction phase stormwater quality targets in the Technical Guidance.</li> <li>• Ensure installation and operation of the erosion and sediment controls are supervised</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Traffic Management Representative</b>                              | <ul style="list-style-type: none"> <li>• Hold a current "Prepare Work Zone Traffic Management Plan" qualification and have a minimum 5 years of recent experience in traffic management on road construction site of equivalent complexity to this Project.</li> <li>• Ensure that the approved traffic management measures are implemented and maintained in accordance with the approved plans.</li> <li>• Carry out regular inspections of the traffic control measures to ensure that they are effective.</li> <li>• Amend and update the plan, as required, to ensure that they remain current as the work progresses.</li> <li>• Identify situations where traffic congestion, or unsafe conditions for vehicles, cyclists, pedestrian, and workers, are occurring and providing recommendations for improvement.</li> <li>• Maintain current copies of the Traffic Management Plan and its various component plans, lane occupancy licenses and speed zone authorisation, and their controlled distribution.</li> <li>• Keep records of the Traffic Controllers' qualifications and ensuring that they are current.</li> <li>• Liaise and facilitate regular meetings with the principal, other authorities, and relevant parties on traffic management matters for the Site, maintain records of these meetings and making them available to the relevant persons.</li> <li>• In conjunction with Community Relations, undertaking consultation with local businesses and residents.</li> </ul>                                                                     |



| Role                                                  | Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                       | <ul style="list-style-type: none"> <li>• Provide induction on the traffic management measures to site personnel.</li> <li>• Record and report on all traffic incidents.</li> <li>• Prepare monthly reports on traffic management matters (TfNSW G10 Clause 4.7.2)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>All employees, contractors, and subcontractors</b> | <ul style="list-style-type: none"> <li>• Ensure familiarity, implementation and compliance with this CEMP and appended management plans.</li> <li>• Support the Proponent's commitment to sustainability, environmental management, and compliance.</li> <li>• Work in a manner that will not harm the environment or impact on surrounding receptors.</li> <li>• Report all environmental incidents, non-compliances, and complaints to the Project Manager without delay.</li> <li>• Immediately notify the Contractor's Project Manager of any hazard or potential hazard that may result in an incident and/or non-compliance, regardless of the nature or scale.</li> <li>• Take immediate action (where it is safe to do so) to prevent, stop, contain and/or minimise any adverse impact associated with an incident and/or non-compliance.</li> <li>• Report any inappropriate construction practices and/or environmental management practices to the Project Manager without delay.</li> </ul> |

## 3.2 Statutory Requirements

### 3.2.1 SSD-17647189

The Development will be constructed in accordance with the Conditions of Consent of SSD - 17647189 given by and the documents referenced under Condition A2 of the Consent:

- 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, Response to Submissions and Additional Information
- d) in accordance with the Development Layout in Appendix 1 of SSD-17647189.
- e) in accordance with the management and mitigation measures in Appendix 3 of SSD-17647189.

In accordance with Condition A3 of SSD-17647189 the Planning Secretary may make written directions to Altis 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.
- b) the implementation of any actions or measures contained in any such document referred to in condition A3(a).

According to SSD-17647189, if there is any inconsistency, ambiguity, or conflict between the conditions of this consent, the directions of the Planning Secretary, and any document listed in condition A2(c) or A2(e), the conditions of this consent and the directions of the Planning Secretary will take precedence. Furthermore, if there is any inconsistency,



ambiguity, or conflict between the documents listed in condition A2(c) or A2(e), the most recent document will take precedence.

### 3.2.2 Regulatory Framework

The relevant statutory requirements of the site are listed in **Table 10** below. Whilst other statutory documents have been considered in the preparation of this CEMP, only those with specific triggers/requirements that relate to construction of the site have been documented.

**Table 10: Relevant Statutory Requirements**

| Legislation                                           | Requirements                                                                                                                                                                                                                                                                                                                                                                                                       | Environmental Aspect                                                                     |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>State Planning Context</b>                         |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |
| Environment Planning and Assessment Act 1979          | Consideration of the impacts to the environment (both natural and built) and the community of proposed development or land-use change.<br><br>The project must comply with the SSD-17647189 Development Consent.                                                                                                                                                                                                   | All                                                                                      |
| Environmental Planning and Assessment Regulation 2021 | Compliance with the environmental planning and assessment system including notification requirements and certificates.                                                                                                                                                                                                                                                                                             | Environmental Management Framework.                                                      |
| Biosecurity Act 2015                                  | The Applicant must:<br><br>(a) implement suitable measures to manage pests, vermin and declared priority weeds on the site; and<br><br>(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. | Weed Management                                                                          |
| Biodiversity Conservation Act 2016                    | Comply with biodiversity conservation obligations.                                                                                                                                                                                                                                                                                                                                                                 | Biodiversity                                                                             |
| National Parks and Wildlife Act 1974                  | Conservation of natural and cultural heritage. Protection and recording of Indigenous and non-Indigenous heritage values.                                                                                                                                                                                                                                                                                          | Aboriginal Heritage<br><br>Earthmoving /excavation works – identifying unexpected finds. |
| Protection of the Environment Operations Act 1997     | <ul style="list-style-type: none"> <li>• Handling, storage, and disposal of all waste streams on site</li> <li>• Protection, restoration, and enhancement of the quality of the NSW environment</li> <li>• Activities where Environment Protection Licence is required.</li> <li>• The development must comply with section 120 of the POEO Act,</li> </ul>                                                        | Construction waste management Discharges or emissions to air, land, and water.           |



| Legislation                                                                                                                                                                       | Requirements                                                                                                                                                              | Environmental Aspect                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|                                                                                                                                                                                   | which prohibits the pollution of waters, except as expressly provided for in an EPL.                                                                                      |                                                                      |
| State Environmental Planning Policy (Resilience and Hazards) 2021                                                                                                                 | Remediation of contaminated lands and consent requirements.                                                                                                               | In the event of any unexpected find or contaminants / contamination. |
| Sydney Water Act 1994                                                                                                                                                             | Mandates the requirement to obtain a Compliance Certificate for water and sewerage infrastructure.                                                                        | Water                                                                |
| <b>Local Planning Context</b>                                                                                                                                                     |                                                                                                                                                                           |                                                                      |
| Penrith City Council's Design Guidelines for Engineering Works for Subdivision and Developments, Engineering Construction Specification for Civil Works and Austroads Guidelines. | Includes specific guidelines to ensure that engineering works are carried out in accordance with the development consent.                                                 | Land development                                                     |
| Penrith City Mamre Road Precinct Development Contributions Plan 2022                                                                                                              | Establishes a requirement for the developer to provide development contributions associated with infrastructure and services as part of the development approval process. | Land development                                                     |

### 3.2.3 Other Licences, Permits, Approvals and Approved Development Consents

**Table 11** summarises additional licences, permits or certificates required throughout these works. This information has been summarised from the SSD- 17647189 Consent Conditions, the EIS (Willowtree Planning, 2021), and contributions from Burton.

A current list of licences, permits, approvals and consents, and their status, including any new additions as the project progresses, will be included in the Construction Contractors Report to Burton. Burton Contractors will ensure that licences, permits, approvals etc listed in **Table 11** is obtained in the required timeframe.

**Table 11: Other Licences, Permits, Approvals and Certificates**

| Licence, Permit, Approval or Approved Development Consents                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Person Responsible | Timing                | References/ Notes            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|------------------------------|
| All licences, permits, approvals and Approved Development 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.                                                                                                                                                                                                                               | Altis              | Ongoing               | SSD – 17647189 Condition AN1 |
| Prior to the issue of any Subdivision Certificate (except for the Stage 1 subdivision as shown on Figure 2 in Appendix 1), detailed work-as-executed drawings shall be prepared and signed by a Registered Surveyor, which show the finished surface levels of the access road, internal roads, drainage, street trees and any areas of fill, carried out under this consent. The work-as-executed drawing must be submitted to the Certifier, Council and Sydney Water prior to the issue of a Subdivision Certificate. | Burton Contractors | Prior to Construction | SSD- 17647189 Condition A24  |
| Prior to the issuing of a Subdivision Certificate for any stage of the development, the Applicant must provide to the                                                                                                                                                                                                                                                                                                                                                                                                    | Altis              | Prior to construction | SSD- 17647189                |





| Licence, Permit, Approval or Approved Development Consents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Person Responsible | Timing                                     | References/ Notes             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------|-------------------------------|
| Certifier evidence that all matters required to be registered on title, including easements, have been lodged for registration or registered at the Land Registry Services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                                            | Condition A25                 |
| <p>Prior to the issue of any Subdivision Certificate (except for the Stage 1 subdivision as shown on Figure 2 in Appendix1):</p> <p>a) certificate from an electricity and telecommunications provider must be submitted to the Certifier certifying that satisfactory service arrangements to the site have been established; and</p> <p>b) a certificate from the Regional Stormwater Authority must be submitted to the Certifier certifying that satisfactory stormwater servicing arrangements for the site have been established.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Altis              | Prior to construction                      | SSD-17647189<br>Condition A26 |
| <p>Prior to issue of a Subdivision Certificate that proposes the dedication of any internal estate road as a public road:</p> <p>a) a final inspection of the estate road is to be undertaken by the relevant Roads Authority. All compliance documentation for road and drainage construction of the estate road must be submitted to the relevant Roads Authority in accordance with the relevant Roads Authorities specifications and requirements.</p> <p>b) a Maintenance Bond is to be lodged with Penrith City Council for all road and drainage works that are to be dedicated to the relevant Roads Authority. The value of the bond shall be determined in accordance with Penrith City Council's adopted Fees and Charges.</p> <p>c) where installation of any regulatory / advisory signage and line marking are proposed, plans are to be lodged with Penrith City Council and approved by the Local Traffic Committee.</p> <p>d) an application for proposed street names must be lodged with and approved by Penrith City Council and the signs erected on-site. The proposed names must be in accordance with Penrith City Council's Street Naming Policy.</p> | Altis              | Prior to construction                      | SSD-17647189<br>Condition A27 |
| <p>Prior to the issue of:</p> <p>a) any Construction Certificate relating to the construction of external walls (including the installation of finishes and claddings such as synthetic or aluminium composite panels).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Altis              | Prior to issue of Construction Certificate | SSD-17647189<br>Condition A29 |
| Before the construction of any utility works associated with the development, the Applicant must obtain relevant approvals from service providers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Altis              | Ongoing                                    | SSD-17647189<br>Condition A31 |
| <p>Before the issue of a Subdivision or Construction Certificate for any stage of the development, the Applicant (whether or not a constitutional corporation) is to provide evidence, satisfactory to the Certifier, that arrangements have been made for:</p> <p>a) the installation of fibre-ready facilities to all individual lots and/or premises in a real estate development project to enable fibre to be readily connected to any premises that is being or may be constructed on those lots.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Altis              | Ongoing                                    | SSD-17647189<br>Condition A33 |



| Licence, Permit, Approval or Approved Development Consents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Person Responsible | Timing  | References/ Notes             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|-------------------------------|
| b) the provision of fixed-line telecommunications infrastructure in the fibre-ready facilities to all individual lots and/or premises in a real estate development project demonstrated through an agreement with a carrier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |         |                               |
| Prior to the issue of any Construction Certificate for the development, the Applicant must submit copies of any documentation in relation to road and intersection works to Council for its records.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Burton Contractors | Ongoing | SSD-17647189<br>Condition B10 |
| Prior to the issue of a Construction Certificate for the bulk earthworks, the Applicant must submit the following documents to TfNSW for review and obtain written confirmation from the Certifier that the construction drawings and specifications comply with these documents:<br>a) bulk earthworks detailed design drawings;<br>b) bulk earthworks sections detailed design; and<br>c) detailed design section drawings (in the area of the future dedicated freight corridor).<br>A copy of the confirmation from the Certifier must be provided to TfNSW, prior to the commencement of earthworks.                                                                                                                                                                                                                                                             | Burton Contractors | Ongoing | SSD-17647189<br>Condition B24 |
| Prior to the issue of a Compliance Certificate under Section 73 of the <i>Sydney Water Act, 1994</i> , an easement under section 88A and / or restriction or public positive covenant under section 88E of the <i>Conveyancing Act 1919</i> naming the Regional Stormwater Authority (Sydney Water) as the prescribed authority, which can only be revoked, varied, or modified with the consent of the Regional Stormwater Authority and which provides for appropriate access to all trunk drainage land for maintenance at no cost to the Regional Stormwater Authority must be registered on the title of the land.                                                                                                                                                                                                                                               | Burton Contractors | Ongoing | SSD-17647189<br>Condition B47 |
| Prior to the issue any construction certificate for the warehouse on Lot 2, the Applicant must prepare and submit a Design Noise Verification Report for the development to the satisfaction of the Planning Secretary. The Applicant must not commence construction of the warehouse until the Design Noise Verification Report is approved by the Planning Secretary. The Design Noise Verification Report must:<br>a) include detailed design and mechanical plant required for the tenant;<br>b) modelling and analysis of compliance with noise limits specified in condition B62<br>c) an outline of management actions to be taken to address any exceedances of the limits specified in Condition.<br>B62; and<br>d) a description of contingency measures in the event management actions are not effective in reducing noise levels to an acceptable level. | Burton Contractors | Ongoing | SSD-17647189<br>Condition B65 |



### 3.3 Training

The Contractor's Project Manager will ensure that all employees and contractors involved in the project are appropriately inducted and trained prior to commencing work on site. Training in relation to environmental responsibilities and implementation of this CEMP will take place initially through induction training and then on an ongoing basis through 'toolbox talks' (or similar). All employees, contractors (and sub-contractors) conducting environmental training and site staff assigning work activities will demonstrate that they are competent and appropriately trained to train and manage construction site specific environmental issues.

Visitors will be inducted through a Power Presentation by Burton outlining environmental risks and how they should be managed whilst on site. Inductions and Training will meet objectives of Condition A20 of SSD-17647189, which is to ensure all employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the SSD-17647189 Consent Conditions relevant to activities they carry out in respect of the development.

A site induction registration form will record all environmental training carried out, including dates, names of persons trained, and trainer name and qualification details will be established and maintained for the duration of construction. Refer to **Appendix M** for Site Induction details.

#### 3.3.1 Induction Training

The environmental induction training will cover all elements of the CEMP and will include, as a minimum, the information in **Table 12**.

**Table 12: Induction Training**

| Inductions and Environmental Training                                                                                                                                                                                           | Where addressed in CEMP      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Purpose and objectives of the CEMP                                                                                                                                                                                              | Section 1.4                  |
| Obligation to minimise harm to the environment                                                                                                                                                                                  | Section 1.3                  |
| Hours of Construction                                                                                                                                                                                                           | Section 2.4                  |
| Requirements of due diligence and duty of care                                                                                                                                                                                  | Section 3.1                  |
| Conditions of any environmental licences, permits and consent approvals                                                                                                                                                         | Section 3.2.3                |
| Potential environmental emergencies on site and the emergency response procedures (including the Emergency Spill Response Plan), locations and training in the use of emergency spill kits for spills on water and on land      | Section 3.4                  |
| Reporting, and notification and management requirements for pollution, contamination, and other environmental incidents, and for damage and maintenance to environmental controls                                               | Section 3.4                  |
| High-risk activities and associated environmental safeguards i.e. earthworks, vegetation clearing, night works, operation, and maintenance of concrete washouts, and washing, refuelling and maintenance of plant and equipment | Section 3.3                  |
| Location of reuse bins, washing, refuelling and maintenance of vehicles, plant, and equipment                                                                                                                                   | Section 4                    |
| Noise, vibration, and air quality management controls                                                                                                                                                                           | Section 4, Appendix F and G. |
| Drivers' code of Conduct                                                                                                                                                                                                        | Refer to CTMP in Appendix C  |



| Inductions and Environmental Training                                                                                                                                                                                                                                                          | Where addressed in CEMP     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Construction Traffic Management including 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.                                                            | Refer to CTMP in Appendix C |
| Sound erosion and sediment control practices, water quality controls and sediment basin management                                                                                                                                                                                             | Refer to ESCP in Appendix D |
| Waste minimisation principles                                                                                                                                                                                                                                                                  | Refer to WMP in Appendix H  |
| Stop work protocol in the event of the discovery of Aboriginal item or object of significance                                                                                                                                                                                                  | Refer to UFP in Appendix J  |
| Induction requirements as per the UFP – Contamination                                                                                                                                                                                                                                          | Refer to UFP in Appendix J  |
| When there is work causing a risk of fire such as welding, thermal or oxygen cutting, heating or other fire producing or spark producing operations or when burning off is proposed, training will be provided to all personnel in fire prevention, fire safety and basic firefighting skills. | Section 3.3                 |

### 3.3.2 Toolbox Talks

Toolbox talks or similar will be held to identify environmental issues and controls when works commence in a new area of the site or a new activity, as well as when environmental issues arise on site. The toolbox talk will include but not be limited to:

- A description of the activity and the area.
- Identification of the environmental issues and risks for the area.
- Outline the mitigations measures for the works and the area.

## 3.4 Incident Response and Handling Procedure

### 3.4.1 Performance Objective

To ensure that any incident and/or non-compliance caused by or relating to construction is effectively responded to, reported accordingly, and any resulting adverse environment and/or human health impact is promptly prevented or effectively managed.

### 3.4.2 Definitions

For the purposes of this CEMP, the definitions outlined in **Table 13**, as specified in SSD-17647189, will be adopted and applied during construction.

**Table 13: Incident Definitions**

| Term                   | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                                                                                                                                                                                                  |
| Material Harm Incident | a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or<br>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). |



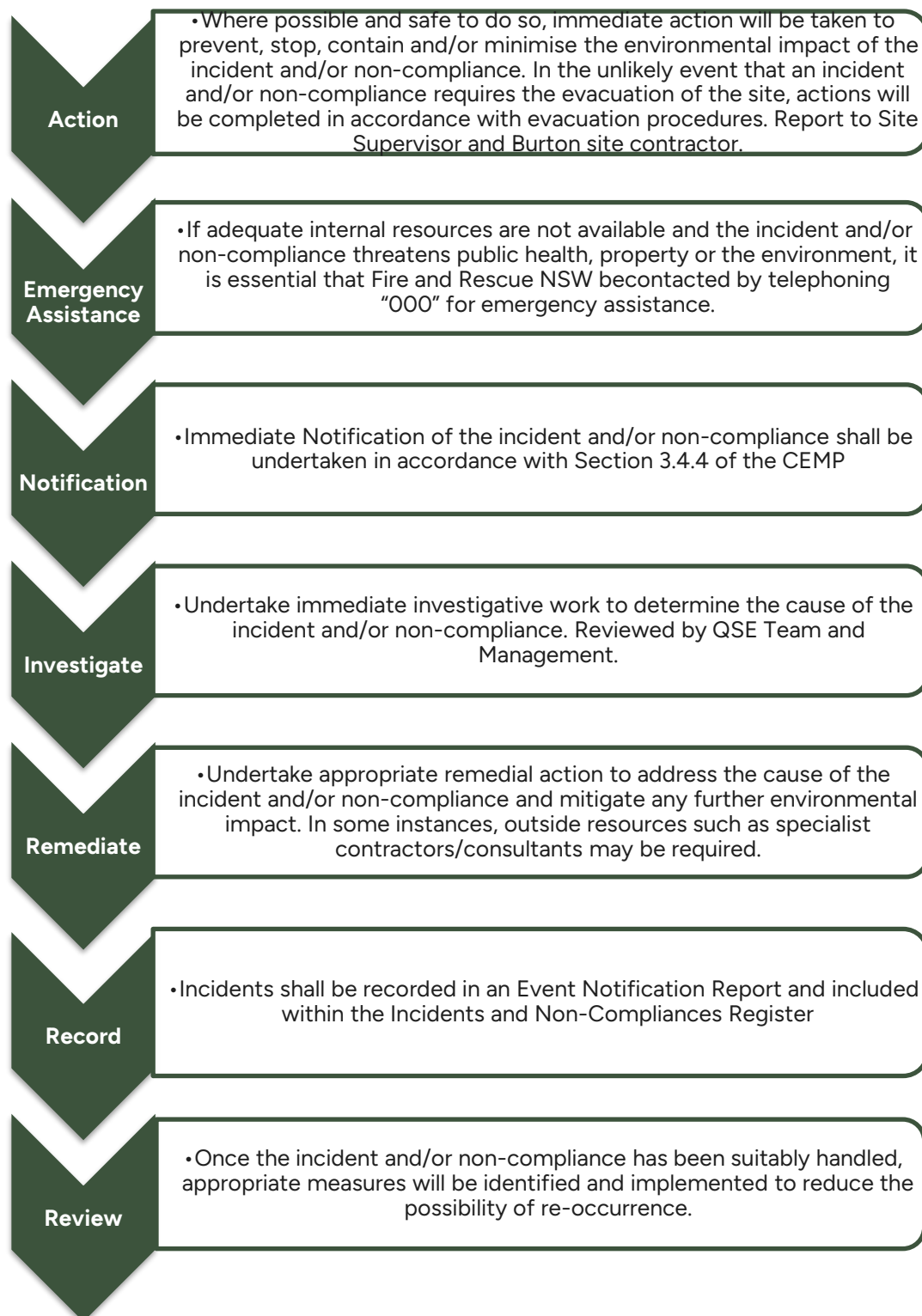
| Term                      | Definition                                                                                                                                     |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Non-Compliance            | An occurrence, set of circumstances or development that is a breach of this consent                                                            |
| Minor Environmental Event | an incident that is minor where there has been no potential or actual material harm to the environment (see 'material harm' definition above). |

### 3.4.3 Incident Response

In the instance of an incident, an Event Notification Form must be completed by site personnel and forwarded to Head Office for all environmental incidents and non-compliances to provide the basis for incident analysis and impact prevention. See **Appendix O** for the Incident and Investigation Response Form, **Appendix P** for the Incident Statement, and **Appendix Q** for Witness Statement. The Incidents and Non-Compliance Handling Process shown in **Figure 3** will be implemented.



**Figure 3: Incidents and Non-Compliance Handling Process**



### 3.4.4 Incident and Non-Compliance Notification

In the instance of an incident or non-compliance, the notification protocols outlined in **Table 14** below shall be adhered to.

**Table 14: Notification Protocols**

| Notification Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Responsible     | Timeframe                                                                                     | Reference                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Incident Notification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                                                                                               |                                                                                                                                                 |
| Once becoming aware of an incident, the appointed Contractor will notify the relevant agency if an incident or potential incident causes (or may cause) harm to the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Project Manager | Immediately after becoming aware of a potential or actual incident                            | Best Practice                                                                                                                                   |
| The Contractors Project Manager will notify Altis of any incidents including all relevant information pertaining to the incident.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                                                                                               |                                                                                                                                                 |
| Incident and Investigation Response Form will be completed and provided to Altis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | Within 24 hours.                                                                              | Appendix O                                                                                                                                      |
| Notify DPHI of an incident in writing via the Major Projects Website.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | Within seven days after the Applicant becomes aware of an incident.                           | Development Consent SSD-17647189 – C10 and Appendix 5 – Incident Notification and Reporting Requirements under Development Consent SSD-17647189 |
| Written notification of an incident must:<br>a. identify the development and application number;<br>b. provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);<br>c. identify how the incident was detected;<br>d. identify when the applicant became aware of the incident;<br>e. identify any actual or potential non-compliance with conditions of consent;<br>f. describe what immediate steps were taken in relation to the incident;<br>g. identify further action(s) that will be taken in relation to the incident; and<br>h. identify a project contact for further communication regarding the incident. |                 | Within 30 days of the incident occurring or as otherwise agreed to by the Planning Secretary. | Appendix 5 – Incident Notification and Reporting Requirements under Development Consent SSD-17647189                                            |





| Notification Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Responsible                       | Timeframe                                                                 | Reference                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Provide DPHI and any relevant public authorities a detailed report on the incident.                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |                                                                           |                                                                                                      |
| The Incident Report must include:<br>a. a summary of the incident;<br>b. outcomes of an incident investigation, including identification of the cause of the incident;<br>c. details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and<br>d. details of any communication with other stakeholders regarding the incident.                                                                                                                |                                   |                                                                           |                                                                                                      |
| Non-Compliance Notification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |                                                                           |                                                                                                      |
| Immediately identify and document any instance of non-compliance with the development conditions.                                                                                                                                                                                                                                                                                                                                                                                                                             | Site Supervisor / ER              | Within seven days after the Applicant becomes aware of any non-compliance | Appendix 5 – Incident Notification and Reporting Requirements under Development Consent SSD-17647189 |
| Prepare a non-compliance notification that includes the following details: <ul style="list-style-type: none"><li>Identify the development and provide the application number.</li><li>Specify the condition of consent that the development is non-compliant with.</li><li>Describe how the development does not comply with the specified condition.</li><li>Provide the reasons for the non-compliance, if known.</li><li>Outline the actions that have been or will be undertaken to address the non-compliance.</li></ul> |                                   |                                                                           |                                                                                                      |
| Provide written notification of the non-compliance to the Major Projects Website.                                                                                                                                                                                                                                                                                                                                                                                                                                             | Project Manager                   |                                                                           | Development Consent SSD-17647189 – C11                                                               |
| Implement the corrective actions outlined in the notification to address and rectify the non-compliance.                                                                                                                                                                                                                                                                                                                                                                                                                      | Site Supervisor / Project Manager | As soon as possible after the notification is prepared                    | Best Practice                                                                                        |



| Notification Requirement                                                                                                                                                          | Responsible          | Timeframe                               | Reference |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------|-----------|
| Monitor the implementation of corrective actions and ensure that the non-compliance is resolved. Document the resolution and any additional measures taken to prevent recurrence. | Site Supervisor / ER | Continuous monitoring until resolution. |           |

Refer to Appendix 5 within SSD-17647189, for more details regarding Incident Notification and Reporting Requirements.

Under the Protection of the Environment Operation Act 1997 (POEO Act), “relevant authority” means any of the following:

- The appropriate regulatory authority – the Environment Protection Authority (EPA).
- If the EPA is not the appropriate regulatory authority – the local authority for the area in which the pollution incident occurs (i.e. Council).
- NSW Public Health Unit.
- SafeWork NSW.
- Fire and Rescue NSW; and
- Water NSW (if the event has an effect on the Water NSW pipeline corridor).

**Table 15** lists the contact details for these authorities. The person reporting the pollution incident will provide the following key details:

- Location of the pollution incident/emergency.
- Nature of the pollution incident/emergency.
- Their name and contact details.
- Details of any required assistance.



**Table 15: Regulatory Authority Contact List**

| Regulatory Authority/<br>Stakeholder                                          | Key Contact                                                | Contact Details                                                                                                                                                     |                            |
|-------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>Department of Planning, Housing, and Infrastructure Environment (DPHI)</b> | Compliance Unit                                            | 1300 305 695 or 02 9228 6111<br>compliance@planning.nsw.gov.au                                                                                                      |                            |
| <b>Environment Protection Authority (EPA)</b>                                 | Environment Line                                           | 131 555<br>info@environment.nsw.gov.au                                                                                                                              |                            |
|                                                                               | Head office (Sydney)                                       | 02 9995 5000                                                                                                                                                        |                            |
| <b>Environment, Energy and Science (EES) Group</b>                            | Main switchboard                                           | 1300 361 967<br>info@environment.nsw.gov.au                                                                                                                         |                            |
| <b>Penrith City Council</b>                                                   | Main switchboard                                           | 02 4732 777<br>council@penrith.city                                                                                                                                 |                            |
| <b>Water NSW</b>                                                              | Main switchboard                                           | 1300 662 077<br>Customer.Helpdesk@waternsw.com.au                                                                                                                   |                            |
|                                                                               | Incident Notification Number – 24 hours                    | 1800 061 069                                                                                                                                                        |                            |
| <b>NSW Public Health Unit</b>                                                 | Sydney Local Health District                               | Business hours: 1300 066 055<br>After hours: 02 9515 6111                                                                                                           |                            |
| <b>SafeWork NSW</b>                                                           | Incident Notification Hotline                              | 131 050<br>Select Option 3 to report a "Serious Incident or Fatality" – this will result in the incident being recorded and the appropriate person being contacted. |                            |
| <b>Emergency Services</b>                                                     | NSW Police<br>NSW Fire and Rescue<br>NSW Ambulance Service | 131 444<br>1300 729 579<br>-                                                                                                                                        | In case of emergency – 000 |

A material harm incident notification will identify the development and the application number for it, the way in which it does not comply and the reasons for the material harm incident (if known) and what actions have been, or will be, undertaken to address the material harm incident.

### 3.4.5 Register

Records of all incidents and non-compliances will be maintained in Burton's incident register system. Details of all incidents and complaints will be retained for at least five years after the event to which they relate.

## 3.5 Complaints Response and Handling Procedure

All complaints will be handled in accordance with the Community Consultation and Complaints Handling Strategy (CCCHS) referenced in **Appendix K**.

Any employee who takes receipt of a complaint, either verbal or written, is to take note of the name and contact details of the complainant and the nature of the complaint and immediately notify the Contractor's Project Manager, who will then contact the Community Enquiries and Complaints Contact to commence action.



**Figure 4** discusses the process involved within Complaints Handling Procedure.

### 3.5.1 Community Enquiries

Relevant contact details, including a phone number for community enquiries, will be included on site signage or are available on the project website: <https://accesslogisticspark.com.au/>. All community enquiries should be forwarded to the Site Manager.

Burton and Altis will appoint a community liaison who will be available to handle community complaints and inquiries and to address any concerns. The contact details of the community liaison are shown in **Table 16**.

**Table 16: Community Liaison Contact**

| Contact Details |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| Contact Person  | Joshua Macree                                                                                      |
| Mailing Address | 11-21 Underwood Road, Homebush, NSW 2140                                                           |
| Phone Number    | 0429 528 430                                                                                       |
| Email           | <a href="mailto:Joshua.Macree@burtoncontractors.com.au">Joshua.Macree@burtoncontractors.com.au</a> |
| Website         | <a href="http://www.burtoncontractors.com.au">www.burtoncontractors.com.au</a>                     |

### 3.5.2 Complaints Register

A Complaints Register will be maintained for the duration of 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 Community Correspondence Register.
- Copies of all completed Community Correspondence Register, which are to be maintained for at least five years after the event to which they relate.
- The register is to be updated monthly and made available on Altis Website.

As per Condition A37 under SSD-17647189, the Applicant will provide the Environmental Representative (ER) with a copy of the complaints register, when complaints are received (to be provided on a daily basis).

NOTE: The register provided on Altis website should not include any personal details of the complainants.



**Figure 4: Complaints Handling Procedure**



## 4.0 Environmental Management Commitments

Environmental aspects with the potential to be impacted through the construction of Stage 1 & 2 - Access Logistics Park are addressed in the following section. These issues have specific regulatory requirements imposed by SSD 17647189 and/or are considered to have the highest potential to result in a non-compliance with a legislative requirement or general community complaints. This section contains compliance management tools outlining how controls are implemented.

**Table 17** lists the environmental controls that will be implemented throughout the construction of the Access Logistics Park to minimise the potential for adverse impacts on the local environmental and surrounding receptors.

It is important to note that there are additional mitigation measures and controls included in the sub-plans. The controls outlined below are those that are part of this overarching CEMP or do not fit specifically under any of the sub-plans. For detailed information on the specific sub-plans and their respective mitigation measures and controls, please refer to **Section 4.1**. The sub-plans cover various aspects of environmental management and provide targeted measures to address specific environmental concerns.

**Table 17: Environmental Management Controls**

| Environmental Management Control                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Person Responsible | Timing / Frequency                           | Reference / Notes          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------|----------------------------|
| Construction employees and contractors will be suitably inducted and trained.                                                                                                                                                                                                                                                                                                                                                                                                      | Site Supervisor    | Prior to commencing construction and ongoing | CEMP Section 3.3           |
| The incidents and complaints will be promptly and effectively addressed in accordance with the management strategies.                                                                                                                                                                                                                                                                                                                                                              | All site personnel | Ongoing                                      | CEMP Sections 3.4 and 3.5  |
| Inconsistencies found in the management plans and related documents for this project will be notified.                                                                                                                                                                                                                                                                                                                                                                             | Project Manager    | Ongoing                                      | Best Practice              |
| All monitoring records will be maintained to demonstrate compliance with the CEMP, including: <ul style="list-style-type: none"> <li>Site environmental inspection reports</li> <li>Environmental monitoring data and</li> <li>Internal and external audit reports</li> <li>Reports of environmental incidents, environmental, associated actions taken, and follow-up actions.</li> <li>Minutes of management review meetings</li> <li>Induction and training records.</li> </ul> | Project Manager    | For 5 years after completion date            | Section 3.4.5 of this CEMP |
| The Applicant must ensure the development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).                                                                                                                                                                                                                                                                                                                                               | Project Manager    | Ongoing                                      | SSD-17647189 B85           |
| Prior to the commencement of construction of the development, the Applicant must prepare a Construction and Demolition Waste Management Plan for the development. The Plan must form part of a CEMP in accordance with condition C2 and must:                                                                                                                                                                                                                                      | Project Manager    | Prior to construction                        | SSD-17647189 B104          |



| Environmental Management Control                                                                                                                                                                                                                                                                             | Person Responsible                        | Timing / Frequency    | Reference / Notes                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------|-----------------------------------|
| (a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations; and<br>(b) be implemented for the duration of construction works.                                                                                                       |                                           |                       |                                   |
| The Applicant must:<br>(a) not commence construction until the Construction and Demolition Waste Management Plan has been prepared; and<br>(b) implement the most recent version of the Construction and Demolition Waste Management Plan approved by the Planning Secretary.                                | Project Manager                           | Prior to construction | SSD-17647189 B105                 |
| Altis will commit to implement all reasonable and feasible measures, to prevent and/or minimise any harm to the environment, that may result from the construction or operation of the proposed development.                                                                                                 | Project Manager                           | Ongoing               | SSD-17647189 Appendix 3           |
| <b>Noise and Vibration</b>                                                                                                                                                                                                                                                                                   |                                           |                       |                                   |
| Use quieter and less noise and vibration emitting construction methods where feasible and reasonable.                                                                                                                                                                                                        | Project Manager, Site Supervisor and CESR | Ongoing               | Section 8.1 of CNVMP (Appendix F) |
| Works will be completed during standard daytime construction hours outlined in Section 6.2 of CNVMP                                                                                                                                                                                                          |                                           | Ongoing               |                                   |
| Truck routes to the development site will be limited to major roads (refer to CTMP)                                                                                                                                                                                                                          |                                           | Ongoing               |                                   |
| Training will be provided to all personnel on noise and vibration requirements for the project. Inductions and toolbox talk to be used to inform personnel of the location and sensitivity of surrounding receivers.                                                                                         | Project Manager and Site Supervisor       | Ongoing               |                                   |
| Noisy equipment will be sited behind structures that act as barriers, or at the greatest distance from the noise-sensitive area. Equipment will be oriented so that noise emissions are directed away from any sensitive areas, where possible.                                                              | Project Manager, Site Supervisor and CESR | Ongoing               |                                   |
| Dropping materials from a height will be avoided.                                                                                                                                                                                                                                                            | Project Manager, Site Supervisor and CESR | Ongoing               |                                   |
| Loading and unloading will be carried out away from noise sensitive areas, where practicable.                                                                                                                                                                                                                | Project Manager, Site Supervisor and CESR | Ongoing               |                                   |
| The layout of the work 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.                                                                           | Project Manager, Site Supervisor and CESR | Ongoing               |                                   |
| A noise barrier, 3 m high and 100 m long will be built in the position indicated in Figure 4. Where feasible, noisy equipment will be operated behind and as near to the barrier as possible. The base of the noise barrier should be at the same elevation as the ground floor of 930 Mamre Road. Where the | Project Manager, Site Supervisor and CESR | Ongoing               |                                   |





| Environmental Management Control                                                                                                                                                                                                                                                                                                                                                                                                                              | Person Responsible | Timing / Frequency | Reference / Notes                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|----------------------------------------|
| noise barrier must be built at a lower elevation, the barrier's height will need to be increased to achieve a similar degree of shielding to the upper floor of this residence as the modelled barrier.<br><br>The noise barrier should be constructed of a material with a minimum surface mass 15kg/m <sup>2</sup> and should be continuous over its length and have no gaps.                                                                               |                    |                    |                                        |
| <b>Waste Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                    |                                        |
| Altis will ensure that all waste generated on-site during construction is classified in accordance with the Waste Classification Guidelines: Part 1 Classifying Waste and disposed of at facility that may lawfully accept the waste.                                                                                                                                                                                                                         | Project Manager    | Ongoing            | SSD-17647189 Appendix 3                |
| <b>Dangerous Goods</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                                        |
| The quantities of dangerous goods stored and handled at the individual lots for the site must be below the threshold quantities listed in the Department of Planning's Hazardous and Offensive Development Application Guidelines – Applying SEPP 33 at all times and not trigger the Chapter 3 of <i>State Environmental Planning Policy (Resilience and Hazards) 2021</i> .                                                                                 | All site personnel | Ongoing            | SSD-17647189 B94                       |
| Dangerous goods, as defined by the Australian Dangerous Goods Code, must be stored and handled strictly in accordance with:<br><br>a) all relevant Australian Standards.<br>b) for liquids, the NSW EPA's Storing and Handling of Liquids: Environment Protection – Participants Manual                                                                                                                                                                       | All site personnel | Ongoing            | SSD-17647189 B95                       |
| In the event of an inconsistency between the requirements of Conditions B95(a) to B95(b) the most stringent requirement must prevail to the extent of the inconsistency.                                                                                                                                                                                                                                                                                      | All site personnel | Ongoing            | SSD-17647189 B96                       |
| <b>Bushfire</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                    |                                        |
| Public road design and construction is to comply with Table 5.3b of PBP. An exemption is the interim single access road may be longer than 200 m.                                                                                                                                                                                                                                                                                                             | Site Supervisor    | Ongoing            | Specific Environmental Commitments 27. |
| Altis will ensure that the Site is to be maintained to achieve the performance requirement of an Inner Protection Area (IPA) as described by Appendix A4.1.1 of PBP. The following landscaping specifications have been designed to achieve an IPA standard at this Site:<br><br>a. Trees:<br>i. Trees at maturity should not touch or overhang the building;<br>ii. Tree canopies should not be connected when at maturity. Gaps between crowns or groups of | Site Supervisor    | Ongoing            | Specific Environmental Commitments 28. |



| Environmental Management Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Person Responsible                      | Timing / Frequency                       | Reference / Notes                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|--------------------------------------------------------------------------------|
| <p>crowns are to be maintained at distances of 2 to 5m.</p> <p>b. Shrubs:</p> <p>i. Ensure gaps in the vegetation, such as between garden beds, to prevent the spread of fire towards the building;</p> <p>ii. Clumps of shrubs should be separated from glazing and doors by a distance of at least twice the height of the vegetation.</p> <p>c. Groundcovers:</p> <p>i. Grass should be kept mown (as a guide grass should be kept to no more than 100mm in height);</p> <p>ii. Leaves and vegetation debris should be regularly removed;</p> <p>iii. Organic mulch is not to be used within 1 m of a building.</p> |                                         |                                          |                                                                                |
| Fire hydrant access installation and maintenance will be undertaken in accordance with AS 2419.1 – 2005 Fire Hydrant Installations - System Design, Installation and Commissioning (AS 2419).                                                                                                                                                                                                                                                                                                                                                                                                                          | Site Supervisor                         | Ongoing                                  | SSD-17647189 Appendix 3                                                        |
| Gas services will be installed and maintained in accordance with AS/NZS 1596- 2014 The storage and handling of LP gas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Site Supervisor                         | Ongoing                                  | SSD-17647189 Appendix 3                                                        |
| Hazardous or combustible materials will not to be stored externally                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Site Supervisor                         | Ongoing                                  | SSD-17647189 Appendix 3                                                        |
| <b>Biodiversity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                                          |                                                                                |
| All hollow-bearing vegetation is to be inspected immediately prior to removal, by a qualified ecologist, to confirm absence of resident fauna.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Qualified ecologist and Site Supervisor | Immediately prior to vegetation removal. | Biodiversity Development Assessment Report prepared by Biosis (02 August 2023) |
| All leaf litter and large woody debris within native vegetation is to be inspected immediately prior to removal, by a qualified ecologist, to confirm absence of Cumberland Plain Land Snail (in line with item 5[c] of 9772045 and item 33 of DOC21/928484) (Penrith City Council 2021, DPIE 2021b). If recorded, live snails are to be relocated areas of retained suitable habitat as close as practicable to the subject land.                                                                                                                                                                                     |                                         |                                          |                                                                                |
| Install appropriate stormwater and erosion controls on site to avoid impacts to nearby waterways via stormwater collection systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Site Supervisor                         | Ongoing/throughout earthworks.           |                                                                                |
| Reduction of impacts resulting from external lighting is recommended, and can be adapted from Part 4 (good lighting design principles) of the Dark Sky Planning Guideline (DPE 2016b), including: <ul style="list-style-type: none"> <li>Installing light fitting shields with an opaque cover, mounted horizontally across the top of the lighting module.</li> </ul>                                                                                                                                                                                                                                                 |                                         | Ongoing                                  |                                                                                |



| Environmental Management Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Person Responsible                                       | Timing / Frequency    | Reference / Notes                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------|
| <p>These shielding attachments allow only the downward projection of light.</p> <ul style="list-style-type: none"> <li>Direct lights downwards and avoid shining directly onto the public amenities, which have the potential to reflect light skywards.</li> <li>Utilise low beam angles that are close to vertical where possible to minimise light glare.</li> </ul> <p>Street lighting must not attract insects and use of warm coloured LED light should be incorporated into the development design (Clause 2.2.3, Control 10 of the DCP).</p>                                                                                                                                                             |                                                          |                       |                                                                                            |
| <b>Aboriginal Cultural Heritage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          |                       |                                                                                            |
| All Aboriginal objects collected during the archaeological testing will be reburied onsite as per the specified procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Project Archaeologist / Site Supervisor                  | Prior to construction | Aboriginal Cultural Heritage Assessment prepared by Austral Archaeology dated 09 July 2021 |
| <p>No further assessment or works regarding Aboriginal cultural heritage will be required for the study area. However, if unexpected finds or human remains are discovered during the project, the following protocol will be adhered to:</p> <ul style="list-style-type: none"> <li>All works in the vicinity will cease immediately.</li> <li>The find will be left in place and protected from any further harm.</li> <li>If human skeletal remains are encountered, all work will cease immediately, and NSW Police will be contacted to notify the Coroner's Office.</li> <li>If the remains are believed to be of Aboriginal origin, Aboriginal stakeholders and Heritage NSW will be notified.</li> </ul> | Site Supervisor / CESR                                   | During Construction   |                                                                                            |
| <p>The proponent will continue to inform Aboriginal stakeholders about the management of Aboriginal cultural heritage within the study area throughout the completion of the project.</p> <p>The consultation outlined in the ACHA is valid for 6 months and must be maintained continuously. If a gap of more than 6 months occurs, the consultation will be deemed unsuitable, and re-commencement may be necessary.</p>                                                                                                                                                                                                                                                                                       | Project Manager / Communications and Stakeholder Advisor | Ongoing               |                                                                                            |
| A copy of the ACHA report will be forwarded to all Aboriginal stakeholder groups who have registered an interest in the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Project Manager / ER                                     | Upon Completion       |                                                                                            |

## 4.1 Sub Management Plans

**Table 18** lists sub plans that will be implemented during construction of the Access Logistics Hub to minimise the potential for adverse impacts on the local environmental and surrounding receptors. Each plan was prepared in accordance with Condition C1 of SSD 17647189 and describe mitigation measures that will be implemented by Burton.



**Table 18: Sub Management Plans**

| Environmental Management Plan                                   | Version/Revision | Author                         | Date        | CEMP Appendix |
|-----------------------------------------------------------------|------------------|--------------------------------|-------------|---------------|
| Construction Traffic Management Plan (CTMP)                     | Revision 14      | Allied Traffic Management      | 29/11/2024  | C             |
| Erosion and Sediment Control Plan (ESCP)                        | Revision F       | Ochre Environmental Management | 29/07/2024  | D             |
| Dam Dewatering Management Plan (DDMP)                           | Revision 7       | Biosis                         | 08/08/2024  | E             |
| Construction Noise and Vibration Management Plan (CNVMP)        | Version 2        | SLR                            | 02/09/ 2024 | F             |
| Construction Air Quality Management Plan (CAQMP)                | Version 5        | Northstar                      | 27/05/2024  | G             |
| Waste Management Plan (WMP)                                     | Version 6        | Sydney Environmental Group     | 14/06/2024  | H             |
| Flood Management Plan (FMP)                                     | Revision E       | Costin Roe Consulting          | 25/06/2024  | I             |
| Unexpected Finds Protocol (UFP)                                 | Version 5        | Sydney Environmental Group     | 03/06/2024  | J             |
| Community Consultation and Complaints Handling Strategy (CCCHS) | Revision 4       | Burton                         | 03/06/2024  | K             |



## 5.0 Monitoring, Reporting and Auditing

Prior to the commencement of construction, the Construction Contractor (Burton) will ensure their Project Management Plan includes a detailed Monitoring and Reporting Matrix to clearly document the specific applicable forms, registers or reports that will be used (this may include Supervisor Diary, Weekly Environmental Site Inspection Checklist, Waste Register, Complaints Register etc). Burton will provide a copy of this matrix to Altis and the Contractors Environmental Representative.

Burton will ensure the checklists included in the Project Management Plan, including the Weekly Environmental Site Inspection Checklist (**Appendix N**) and Monthly Environmental Site Inspection Checklist (**Appendix R**), address all relevant monitoring and reporting commitments outlined in the CEMP and appended management plans.

A summary of the monitoring, reporting, and auditing requirements for construction is shown in **Table 19**.

**Table 19: Monitoring, Reporting and Auditing Requirements**

| Aspect  | Monitoring / Inspection Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Responsible     | Timing / Frequency | References / Notes |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|--------------------|
| General | <p><b>Daily Observations:</b></p> <ul style="list-style-type: none"> <li>Record daily observations in the Supervisor's Diary or a similar log.</li> <li>Include plant and equipment prestart checks, covering environmental observations.</li> </ul> <p><b>Pre-Delivery Checks by Supplier:</b></p> <ul style="list-style-type: none"> <li>Ensure that the plant/machinery has been thoroughly cleaned and is free of any seed-harboursing material.</li> <li>Document the pre-delivery check with detailed information about the plant/machinery, including its identification.</li> </ul> <p><b>On-Site Verification:</b></p> <ul style="list-style-type: none"> <li>Conduct a verification check upon the plant/machinery's arrival at the site to ensure it is clean and free of seed-harboursing material.</li> <li>Have this check performed by designated on-site personnel.</li> <li>Document the verification process, including the date, time, the individual who performed the check, and the results.</li> </ul> <p><b>Record Keeping:</b></p> <ul style="list-style-type: none"> <li>Maintain a comprehensive log of all checks, both pre-delivery and on-site.</li> <li>Each log entry should include the plant/machinery identification, the date and time of the check, the individual responsible for the check, and the results of the check.</li> </ul> | Site Supervisor | Daily              | Best practice      |



| Aspect               | Monitoring / Inspection Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Responsible            | Timing / Frequency | References / Notes             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|--------------------------------|
| Pests, Vermin, Weeds | Management visual inspections to ensure 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Site Supervisor        | Daily              | SSD-17647189<br>Condition B111 |
| General              | The weekly and monthly Environmental Checklist will be completed as part of general environmental site inspection to ensure all relevant environmental controls listed in this CEMP are in place and any required maintenance and/or remediation works are identified and undertaken.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CESR                   | Weekly and Monthly | Appendix N and R               |
| General              | The Construction Contractor will report environmental performance during regular management meetings and/or 'toolbox talks'. Items to be discussed include:<br>a. Results of any monitoring activities undertaken.<br>b. Any environmental incidents that have occurred during the previous period, including the management / corrective actions taken.<br>c. Any complaints that have been received during the previous period, including any management / corrective actions taken.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Site Supervisor / CESR | Weekly             | Section 3.3-3.5 of this CEMP   |
| General              | The Applicant must engage an Environmental Representative (ER) to oversee earthworks, subdivision and construction of the development. Unless otherwise agreed to by the Planning Secretary, the earthworks and 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:<br>(a) be a suitably qualified and experienced person who was not involved in the preparation of the EIS, RtS and any additional information for the development and is independent from the design and construction personnel for the development;<br>(b) receive and respond to communication from the Planning Secretary in relation to the environmental performance of the development;<br>(c) consider and inform the Planning Secretary on matters specified in the terms of this consent;<br>(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;<br>(e) review the CEMP required in Condition C2 and any other documents that are identified by the Planning | ER                     | Ongoing            | SSD-17647189<br>A36            |



| Aspect  | Monitoring / Inspection Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Responsible     | Timing / Frequency | References / Notes |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|--------------------|
|         | <p>Secretary, to ensure they are consistent with requirements in or under this consent and if so:</p> <ul style="list-style-type: none"> <li>(i) make a written statement to this effect before submission of such documents to the Planning Secretary</li> <li>(if those documents are required to be approved by the Planning Secretary); or</li> <li>(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);</li> </ul> <p>(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;</p> <p>(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; review the monthly audits of the erosion and sediment controls undertaken by the CPESC in accordance with Condition B36; and</p> <p>(l) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report providing the information set out in the Environmental Representative Protocol under the heading 'Environmental Representative Monthly Reports'. The Environmental Representative Monthly Report must be submitted within seven calendar days following the end of each month for the duration of the ER's engagement for the development, or as otherwise agreed with the Planning Secretary.</p> |                 |                    |                    |
| General | <p>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 A36 (including preparation of the ER monthly report), as well as:</p> <ul style="list-style-type: none"> <li>(a) the complaints register (to be provided on a daily basis); and</li> <li>(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).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Project Manager | Ongoing            | SSD-17647189 A37   |



| Aspect  | Monitoring / Inspection Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Responsible                      | Timing / Frequency                          | References / Notes          |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|-----------------------------|
| General | The Environmental Representative (or alternative delegate when PEC is unavailable) to attend weekly Contractors Project Manager Inspections at the commencement of the project, reducing to fortnightly/monthly on a risk basis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ER / CESR                        | Weekly at commencement                      | Best practice               |
| General | Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy, or 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.                                                                                                                                                                                                                                                                                                                                                                                 | Site Supervisor / Safety Officer | During construction                         | SSD-17647189 Condition C16  |
| General | Inspection and maintenance of all plant and equipment items to ensure optimal operating condition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Site Supervisor                  | As specified by the manufacturer / supplier | Best practice               |
| General | All incoming and outgoing traffic movement to be monitored and recorded to ensure adherence to the approved construction hours.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Project Manager                  | Ongoing                                     | Best practice               |
| General | Any condition of the consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy, or 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.                                                                                                                                                                                                                                                                                                                                                                                  | Project Manager                  | Ongoing                                     | SSD-17647189 Condition C16  |
| General | At least 48 hours before the commencement of construction and for the life of the development (or such other time as agreed by the Planning Secretary), the Applicant must:<br>a) make the following information and documents (as they are obtained or approved) publicly available on its website:<br>i. the documents referred to in condition A2 of this consent;<br>ii. all current statutory approvals for the development;<br>iii. all approved strategies, plans and programs required under the conditions of this consent;<br>iv. a summary of the current stage and progress of the development;<br>v. contact details to enquire about the development or to make a complaint;<br>vi. complaints register, updated quarterly (see conditions C3(a) and C5(c));<br>vii. the development's Compliance Report (see condition C13); | Project Manager                  | For at least 5 years after completion       | SSD- 17647189 Condition C17 |





| Aspect                    | Monitoring / Inspection Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Responsible             | Timing / Frequency                                        | References / Notes            |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------|-------------------------------|
|                           | viii. any other matter required by the Planning Secretary; and<br>keep such information up to date, to the satisfaction of the Planning Secretary.                                                                                                                                                                                                                                                                                                                                      |                         |                                                           |                               |
| General                   | All incoming and outgoing traffic movement to be monitored and recorded to ensure adherence to the approved construction hours.                                                                                                                                                                                                                                                                                                                                                         | Project Manager         | Ongoing                                                   | Best practice                 |
| Imported Soil             | The Applicant must:<br>(a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site;<br>(b) where possible, source fill material from within the MRP;<br>(c) keep accurate records of the volume and type of fill to be used; and<br>(d) make these records available to the Planning Secretary upon request.                                                                                                                                  | Project Manager / CPESC | Ongoing                                                   | SSD-17647189<br>Condition B33 |
| Contamination             | Any material identified as contaminated will be disposed off-site. 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.                                                                                                                                                                                                                            | Site Supervisor         | As required                                               | SSD-17647189<br>Condition B99 |
| Imported Soil             | The Applicant must:<br>(a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site; (b) where possible, source fill material from within the MRP;<br>(c) keep accurate records of the volume and type of fill to be used; and<br>(d) make these records available to the Planning Secretary upon request.                                                                                                                                     | Site Supervisor / CPESC | Ongoing                                                   | SSD-17647189<br>Condition B33 |
| Incident / Non-Compliance | In the event of an Incident or Non-Compliance, an Event Notification Report will be completed, as outlined in Section 3.4 of the CEMP.                                                                                                                                                                                                                                                                                                                                                  | Safety Officer          | Immediately in the event of an Incident or Non-Compliance | Section 3.4 of CEMP           |
| Traffic                   | Before work starts:<br><ul style="list-style-type: none"> <li>Inspect all signage and devices including any VMS to ensure they are undamaged and comply with the requirements depicted on the Traffic Guidance Scheme.</li> <li>After any adjustments have been made to the signs and devices, conduct a drive through inspection to confirm effectiveness. Provide contact name and number for traffic control site supervisor to TMC for nights' activities if applicable.</li> </ul> | Traffic Manager         | Ongoing                                                   | Section 4.8 of CTMP           |
| Traffic                   | During Construction Hours:<br><ul style="list-style-type: none"> <li>Ensure that appropriate personnel drive through the site periodically to inspect all signs and devices including VMS and</li> </ul>                                                                                                                                                                                                                                                                                | Traffic Manager         | During construction                                       |                               |



| Aspect                       | Monitoring / Inspection Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Responsible                                         | Timing / Frequency                   | References / Notes |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|--------------------|
|                              | <p>ensure they are undamaged and comply with the TGS.</p> <ul style="list-style-type: none"> <li>• Ensure on site traffic controllers are in place and carrying out necessary duties.</li> <li>• Keep records of any changes made or additional controls erected throughout the shift.</li> <li>• Record any significant incidents or observations associated with the traffic controls and their impacts on road users or adjacent properties.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                 |                                                     |                                      |                    |
| Traffic                      | <p>At the End of Each Shift Period:</p> <ul style="list-style-type: none"> <li>• Conduct an end of shift site inspection, allowing time for any maintenance work.</li> <li>• Remove any unnecessary signage (Workers Symbolic, Traffic Controller)</li> <li>• Ensure any lighting is added to road safety barriers as necessary.</li> <li>• Record details of inspection and any changes made.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                  | Traffic Manager                                     | During construction                  |                    |
| Traffic                      | <ul style="list-style-type: none"> <li>• Vehicular usage of gates, to ensure a left in / left out practice is used.</li> <li>• Heavy Vehicle queue lengths on the road</li> <li>• All Vehicles, to ensure they are abiding by the vehicle traffic routes &amp; rules.</li> <li>• Monitoring and recording construction traffic against approved traffic volumes.</li> <li>• Adjust construction traffic flow in accordance with monitored numbers to limit congestion on the artillery road.</li> </ul>                                                                                                                                                                                                                                                                                                                    | Traffic Manager / Traffic Management Representative | Daily                                |                    |
| Erosion and Sediment Control | Conduct and document weekly inspections of erosion and sediment controls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Site Supervisor / CESR                              | Weekly                               | ESCP               |
|                              | <p><b>Rainfall Event Trigger:</b> A rainfall event is defined as rainfall exceeding 20 mm in a 24-hour period.</p> <p><b>Pre-Rainfall Inspections:</b></p> <ul style="list-style-type: none"> <li>• Inspect erosion and sediment controls before anticipated rainfall events to ensure all measures are functioning and effective.</li> <li>• Ensure concentrated stormwater flow paths can accommodate a 10% AEP critical duration event without causing erosion, sedimentation, or property damage.</li> <li>• Verify that sediment basins have suitable access for maintenance, sediment removal, dewatering, and water treatment immediately following the rainfall event.</li> <li>• Check sediment basin treatment devices (inlets, dosing units, and flocculant devices) to ensure they are operational.</li> </ul> |                                                     | Immediately following rainfall event |                    |



| Aspect              | Monitoring / Inspection Requirement                                                                                                                                                                                                                                                                              | Responsible                              | Timing / Frequency                                            | References / Notes     |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------|------------------------|
|                     | <b>Post-Rainfall Inspections:</b> <ul style="list-style-type: none"> <li>Conduct inspections immediately following rainfall events exceeding 20 mm in 24 hours.</li> <li>Assess and repair any damaged erosion and sediment controls as soon as possible.</li> </ul>                                             |                                          |                                                               |                        |
|                     | <ul style="list-style-type: none"> <li>Conduct regular inspections by a Certified Professional in Erosion and Sediment Control (CPESC) to monitor site conditions and water quality.</li> <li>Provide recommendations and updates to erosion and sediment control measures based on site inspections.</li> </ul> | CPESC                                    | Monthly                                                       |                        |
| Dam Dewatering      | A brief letter report will be prepared and supplied to Burton describing the dewatering operation, detailing the outcomes of the aquatic fauna salvage and providing any additional recommendations for the project and protection of aquatic fauna as relevant.                                                 | Certified Professional from Biosis       | During dam dewatering                                         | Section 4.5 of DDMP    |
| Noise               | Measure at property boundary most exposed to construction noise, 1.5m above ground or at most noise-affected point within 30m of residence.                                                                                                                                                                      | Qualified Noise Expert / Site Supervisor | During construction                                           | Best Practice          |
|                     | Use locations of received complaints for assessment.                                                                                                                                                                                                                                                             |                                          | When complaints are received                                  |                        |
|                     | Avoid measuring near vegetation causing noise from rustling leaves.                                                                                                                                                                                                                                              |                                          | When measuring                                                |                        |
|                     | Measure ambient noise during minimum noise levels.                                                                                                                                                                                                                                                               |                                          | Multiple times during the day, when site noise is not present |                        |
| Vibration           | <ul style="list-style-type: none"> <li>Set vibration monitors to a maximum measurement interval of 5 minutes, record from 7am to 6pm daily.</li> <li>Fit vibration monitors with SMS warning systems to notify staff when levels exceed 2/3 of the criteria.</li> </ul>                                          | Qualified Noise Expert / Site Supervisor | During construction                                           | Best Practice          |
|                     | Provide a list of construction staff (with mobile numbers) to be notified of vibration level exceedance via SMS.                                                                                                                                                                                                 |                                          | Prior to monitoring setup                                     |                        |
|                     | Install vibration monitors with additional battery packs for a minimum operation of 6 weeks before recharge.                                                                                                                                                                                                     |                                          | During setup and continuous monitoring                        |                        |
|                     | Download vibration monitor data monthly and provide a report suitable for submission to Council or statutory authority.                                                                                                                                                                                          |                                          | Monthly                                                       |                        |
| Noise and Vibration | Short test measurements of equipment before high noise works and out-of-hours works to validate predicted noise levels and ensure mitigation measures are effective.                                                                                                                                             | Qualified Noise Expert /                 | Prior to high noise works                                     | Section 8.2.2 of CNVMP |



| Aspect      | Monitoring / Inspection Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Responsible            | Timing / Frequency                                                                     | References / Notes     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------|------------------------|
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Site Supervisor        |                                                                                        |                        |
|             | Noise monitoring conducted by a Noise Expert in response to complaints to validate noise levels and identify sources. A report is prepared after each session.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Qualified Noise Expert | As required, following a noise complaint                                               | Section 8.2.2 of CNVMP |
|             | Regular noise measurements at representative locations during the noisiest construction periods. Monthly reports summarize results and observations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Qualified Noise Expert | Monthly, and more frequently with the arrival of new equipment                         | Section 8.2.2 of CNVMP |
|             | Continuous, unattended noise monitoring at sensitive locations to ensure noise levels remain consistent with predictions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CESR                   | Continuous during construction works                                                   | Section 8.2.2 of CNVMP |
|             | Continuous vibration monitoring during the use of vibration-intensive equipment within minimum working distances to prevent cosmetic damage to buildings or structures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Qualified Noise Expert | At the start of vibration-intensive works                                              | Section 8.2.3 of CNVMP |
|             | Monitoring conducted to ensure human comfort levels are maintained during vibration-intensive works within safe distances, including response to complaints.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Qualified Noise Expert | At the start of vibration-intensive works and in response to complaints                | Section 8.2.3 of CNVMP |
|             | Vibration monitoring with alarms to trigger warnings and halt work if thresholds are exceeded. Reports are prepared monthly, upon exceedance, and upon completion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CESR                   | Monthly, within one week of an exceedance, and upon completion of vibration monitoring | Section 8.2.3 of CNVMP |
| Air Quality | <b>Proactive Dust Control Measures:</b> <ul style="list-style-type: none"> <li>Visual Inspections: Conduct regular visual inspections of the construction site to ensure there is no visible dust with the potential to leave the site. Inspections should occur at least once per day and more frequently during dry and windy conditions. Perform ongoing visual observation of dust generation from both active and inactive areas of the site. Include inspections along internal access roads to ensure dust control measures are effective.</li> <li>Water Carts: Ensure operational water carts are available and used to suppress dust on unsealed surfaces and during activities likely to generate dust.</li> <li>Sealing/Stabilizing Surfaces: Seal or stabilize exposed surfaces, stockpiles, and unsealed roads to minimize dust generation. This can include applying dust suppressants, covering stockpiles, or using temporary vegetation.</li> </ul> | Site Supervisor        | Daily inspections of dust control measures                                             | Section 6.2 of AQMP    |



| Aspect      | Monitoring / Inspection Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Responsible            | Timing / Frequency | References / Notes  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|---------------------|
|             | <ul style="list-style-type: none"> <li>Wind Breaks: Install wind breaks or barriers to reduce wind speeds over exposed surfaces and minimize dust dispersion.</li> </ul> <p><b>Monitoring Devices:</b></p> <ul style="list-style-type: none"> <li>Locate four (4) dust deposition monitoring devices at the Development site in line with AS/NZS 3580.10.1:2016 and other relevant standards.</li> <li>Operate and maintain the dust deposition monitoring devices in line with AS/NZS 3580.10.1:2016 and other relevant standards.</li> </ul> <p><b>Sample Collection and Analysis:</b></p> <ul style="list-style-type: none"> <li>Collect deposited dust samples every 30±2 days in accordance with AS/NZS 3580.10.1:2016 and other relevant standards.</li> <li>Provide the collected samples to a NATA accredited laboratory for analysis.</li> </ul> <p><b>Data Compilation and Reporting:</b></p> <ul style="list-style-type: none"> <li>Compile monitoring results over a 12-month sampling period and calculate the annual average dust deposition rate (as g·m<sup>-2</sup>·month<sup>-1</sup>) for each monitoring location.</li> <li>Review the number, frequency, and nature of any environmental complaints received over the same 12-month period related to dust issues.</li> <li>Produce a dust monitoring report specifying the results of the monitoring and whether compliance has been achieved.</li> </ul> <p><b>Response to Exceedances:</b></p> <ul style="list-style-type: none"> <li>If monitoring results reveal an exceedance of the dust deposition criteria (in any month of monitoring), identify and apply further dust mitigation measures immediately.</li> </ul> |                        |                    |                     |
| Air Quality | <p>The Applicant will provide the Environmental Representative (ER) with all documentation requested to perform their functions, including:</p> <ul style="list-style-type: none"> <li>Air quality monitoring data;</li> <li>Complaints data (as per Section 7.37.4).</li> </ul> <p>As required by NSW DPHI, air quality monitoring results would be reviewed monthly at a minimum and included in the monthly ER report.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Project Manager and ER | Monthly            | Section 7.5 of AQMP |
| Waste       | <p>Designated waste storage areas will be inspected daily to ensure that all waste storage containers and bins (where applicable) are closed to minimise vermin interaction at the site.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Site Supervisor        | Daily              | Section 3.1 of WMP  |



| Aspect | Monitoring / Inspection Requirement                                                                                                                             | Responsible     | Timing / Frequency | References / Notes |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|--------------------|
| Waste  | All regular waste management monitoring activities such as tracking sheets, waste tipping dockets, inspections and audits will be detailed in the site's diary. | Site Supervisor | Monthly            | Section 3.4 of WMP |



## 6.0 Contingency Management Plan

**Table 20** lists the actions to be implemented if inspections, monitoring and/or auditing indicate that the mitigation measures listed in the sub plans and the specialist management plans are not effective in managing environmental impacts.

**Table 20: Contingency Plan**

| Key Element                                       | Trigger / Response | Condition Green                                                                                         | Condition Amber                                                                                                                                                                                                                                                                                                                                                               | Condition Red                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Noise and Vibration</b>                        |                    |                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Noise impacts at sensitive receiver locations     | Trigger            | No complaints are received                                                                              | Multiple noise complaints (more than one from either the same or different resident) regarding particular activity or ongoing construction works. Noise levels above the Noise Affected Limit following from spot-check noise measurements.                                                                                                                                   | Noise levels exceed Highly Noise Affected criteria (75 dBA)                                                                                                                                                                                                                                                                                                                                                                  |
|                                                   | Response           | On-going best practice management measures to minimise noise emissions                                  | Stop works and investigate.<br>Suitably qualified acoustic consultant to be engaged to conduct 'spot-check' noise measurements at the complainants' property boundary. Refer to Section 7.5 Noise Monitoring for measurement procedure.<br>Undertake all feasible and reasonable mitigation and management measures to minimise noise impacts below the Noise Affected Limit. | For unplanned exceedance of the Highly Noise Affected criteria, stop works and implement the requirements under Condition Amber in addition to the following:<br>Works exceeding the Highly Noise Affected criteria will be managed in accordance with the strategies for high noise generating works determined through community consultation, as detailed in Section 7.1 Noise Management and 7.2 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 or vibration complaint received.                                                                                                                                                                                                                                       | Vibration levels exceed applicable vibration limits                                                                                                                                                                                                                                                                                                                                                                          |



| Key Element          | Trigger / Response | Condition Green                                                            | Condition Amber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Condition Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|--------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | Response           | On-going best practice management measures to minimise vibration emissions | Stop work and investigate.<br>Undertake vibration monitoring for the duration of the works to confirm vibration levels. Refer to Section 8.2 Vibration Monitoring Procedure for measurement procedure.                                                                                                                                                                                                                                                                                                        | Stop work.<br>Undertake all feasible and reasonable mitigation and management measures to ensure vibration levels are below applicable limits.<br>If vibration levels cannot be kept below applicable limits, then a different construction method or equipment must be utilised.                                                                                                                                                                                                                                                                           |
| Noise Complaints     | Trigger            | No complaints                                                              | Noise complaint, exceeding noise limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Noise complaint- exceeding noise limits on multiple occasions, multiple complaints                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                      | Response           | On-going best practice management measures to minimise noise emissions     | Complaint will be directed to the responsible person who will determine the source of the noise and take immediate steps to investigate further or mitigate noise as required. Refer to CNVMP.                                                                                                                                                                                                                                                                                                                | Complaint will be directed to the responsible person who will determine the source of the noise and take immediate steps to investigate further or mitigate noise as required. Refer to CNVMP. This may involve moving the noise source further away from affected premises, replacing the equipment, installing high performance silencers, or in some cases, engaging a qualified acoustic consultant to provide specialist control advice.                                                                                                               |
| Vibration Complaints | Trigger            | No complaints                                                              | Noise complaint, exceeding vibration limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                      | Response           | On-going best practice management measures to minimise vibration emissions | vibration monitoring at the receiver location with SMS warning system issued to the responsible persons onsite. The Responsible Person shall cease works that may be causing the vibration intrusion and engage a qualified person to determine suitable management and physical controls to reduce excessive vibration to compliant levels from demolition works. If excessive vibration is determined, works generating the vibration cannot resume until satisfactory mitigation treatment is implemented. | Cease vibration works as soon as practicable. Vibration monitoring at the receiver location with SMS warning system issued to the responsible persons onsite. The Responsible Person shall cease works that may be causing the vibration intrusion and engage a qualified person to determine suitable management and physical controls to reduce excessive vibration to compliant levels from demolition works. If excessive vibration is determined, works generating the vibration cannot resume until satisfactory mitigation treatment is implemented. |





| Key Element                                                   | Trigger / Response | Condition Green                                                                                                                                                                                                                                                                                       | Condition Amber                                                                                                                                                                                                                                                                                                                                                                             | Condition Red                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Air Quality</b>                                            |                    |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                |
| Real-time air quality monitoring indicates triggers activated | Trigger            | Concentration at any monitor $\geq 50 \mu\text{g}\cdot\text{m}^{-3}$ and<br>1-hour average DWI $< 5 \mu\text{g}\cdot\text{m}^{-3}$<br>or<br>Visible dust observed leaving the site boundary<br>or<br>Wind speeds $\geq 5.5 \text{ m}\cdot\text{s}^{-1}$ ( $\geq 19.8 \text{ km}\cdot\text{hr}^{-1}$ ) | Concentration at any monitor $\geq 50 \mu\text{g}\cdot\text{m}^{-3}$ and<br>1-hour average DWI $\geq 5 \mu\text{g}\cdot\text{m}^{-3}$ and $< 10 \mu\text{g}\cdot\text{m}^{-3}$<br>or<br>Visible dust observed leaving the site boundary<br>or<br>Receipt of a justified complaint<br>or<br>Wind speeds $\geq 6.8 \text{ m}\cdot\text{s}^{-1}$ ( $\geq 24.5 \text{ km}\cdot\text{hr}^{-1}$ ) | Concentration at any monitor $\geq 50 \mu\text{g}\cdot\text{m}^{-3}$ and<br>1-hour average DWI $> 10 \mu\text{g}\cdot\text{m}^{-3}$<br>or<br>Visible dust observed leaving the site boundary<br>or<br>Receipt of a justified complaint<br>or<br>Wind speeds $\geq 8 \text{ m}\cdot\text{s}^{-1}$ ( $\geq 28.8 \text{ km}\cdot\text{hr}^{-1}$ ) |
|                                                               | Response           | Identify activities being performed and whether any additional emission controls can be applied to those activities (e.g. watering of roads and stockpiles, water sprays etc.)                                                                                                                        | Apply the controls identified during Action Level A                                                                                                                                                                                                                                                                                                                                         | Depending on the activities being performed, progressively decrease the rate of activity or cease operations if emissions cannot be adequately controlled                                                                                                                                                                                      |
| Visible dust leaving the site boundary                        | Trigger            | Daily inspection indicates no visible dust offsite                                                                                                                                                                                                                                                    | Daily inspection indicates high risk of visible dust migrating offsite                                                                                                                                                                                                                                                                                                                      | Daily inspection indicates any visible dust offsite                                                                                                                                                                                                                                                                                            |
|                                                               | Response           | No response                                                                                                                                                                                                                                                                                           | Investigate dust generating activities and implement appropriate additional emission controls <i>Deployment of additional water sprays, water trucks etc</i>                                                                                                                                                                                                                                | Immediately investigate dust generating activities and cease associated operations. Implement appropriate emission controls prior to recommencing.                                                                                                                                                                                             |



| Key Element                                  | Trigger / Response | Condition Green                                                                                                                                                                         | Condition Amber                                                                                                                                                                                                                                         | Condition Red                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Results of deposited dust monitoring program | Trigger            | Monthly review indicates no exceedances                                                                                                                                                 | Monthly review indicates one or more exceedance                                                                                                                                                                                                         | Consecutive monthly exceedances at one or more locations                                                                                                                                                                                                                                                                                                     |
|                                              | Response           | No response                                                                                                                                                                             | Investigate activities that may have contributed to exceedance and implement emission controls.                                                                                                                                                         | Implement appropriate emission controls and consider additional real-time monitoring if the source is deemed to be project related.                                                                                                                                                                                                                          |
| Complaints received regarding dust           | Trigger            | There are no complaints received during the construction                                                                                                                                | One complaint received                                                                                                                                                                                                                                  | Multiple complaints received regarding same source                                                                                                                                                                                                                                                                                                           |
|                                              | Response           | No response                                                                                                                                                                             | Investigate dust generating activities and implement appropriate additional emission controls                                                                                                                                                           | Review monitoring data, progressively decrease the rate of activity or cease operations if emissions cannot be adequately controlled                                                                                                                                                                                                                         |
| <b>Traffic</b>                               |                    |                                                                                                                                                                                         |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                              |
| Construction movements                       | Trigger            | Both peak hour and daily Construction traffic volumes are in accordance with volume and time constraints as outlined within section 4.4.1 Anticipated Construction Traffic of the CTMP. | 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.                                                                                                                                                                   | Review and investigate construction activities, and where appropriate, implement additional remediation measures such as: <ul style="list-style-type: none"> <li>Review CTMP and update where necessary</li> <li>Provide additional training</li> </ul> | As with Condition Red; <ul style="list-style-type: none"> <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.</li> <li>Temporary postpone/limit traffic in and out of the site to reduce the contribution to congestion.</li> </ul> |



| Key Element             | Trigger / Response | Condition Green                                                                                                                                                     | Condition Amber                                                                                                                                                                                                                                           | Condition Red                                                                                                                                                                                                                                                                                                                           |
|-------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                            | As with Condition Amber, plus: <ul style="list-style-type: none"> <li>Review and investigate construction activities.</li> </ul>                                                                                                                                                                                                        |
| Traffic Noise           | Trigger            | Noise levels do not exceed imposed noise constraints, as outlined within the Noise Assessment Report (<75dBA), nor has there been a traffic noise related complaint | Noise levels in minor excess (<10dBA) of imposed noise constraints, or receipt of a single traffic noise complaint. Action/s taken to address; investigate to try to ascertain the source of the noise complaint. Eliminate or minimise noise generation. | Noise levels greatly in excess (>10dBA) of imposed noise constraints and/or consistent traffic noise complaints exceeding 2 or more notification on the same day by different stakeholders. It would be ceasing work in that effected to immediately manage the noise complaint and investigation will be held as per Amber procedures. |
|                         | Response           | No response required.                                                                                                                                               | Undertake all feasible and reasonable mitigation and management measures to minimise noise impacts.                                                                                                                                                       | As with Condition Amber, if noise levels cannot be kept below applicable limits, then a different construction method or equipment must be utilised.                                                                                                                                                                                    |
| Traffic Guidance Scheme | Trigger            | No observable issues (TGS implemented 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 undertaken into the incident. Changes are to be made to the TGS to ensure the safety of all pedestrians and drivers on site are catered for.                                                                                                                                                  |



| Key Element                              | Trigger / Response | Condition Green                                                                                                          | Condition Amber                                                                                                                                                                                 | Condition Red                                                                                                                                                                                                                  |
|------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water and Soil</b>                    |                    |                                                                                                                          |                                                                                                                                                                                                 |                                                                                                                                                                                                                                |
| Soil / dust / mud on public road network | Trigger            | No soil / dust / mud tracked onto the public road network.                                                               | Evidence of soil / dust / mud at entry but none tracked onto public roads.                                                                                                                      | Evidence of soil / dust / mud tracked onto the public roads.                                                                                                                                                                   |
|                                          | Response           | Continue ESCP/CEMP implementation.                                                                                       | Check condition of wheel wash facility, and dust suppression equipment to ensure it is functioning correctly. Supervision of departing vehicles to ensure sediment/mud is not tracked off site. | <ul style="list-style-type: none"> <li>Check condition of wheel wash facility to ensure it is functioning correctly.</li> <li>Stop work and clean soil / dust / mud off road network (e.g., engage street sweeper).</li> </ul> |
| Erosion                                  | Trigger            | No evidence of erosion.                                                                                                  | Minor gully or tunnel erosions present and/or rilling. Evidence of sediment or sediment laden water leaving the site.                                                                           | Significant gully or tunnel erosions present and/or rilling. Evidence of sediment or sediment laden water leaving the site.                                                                                                    |
|                                          | Response           | Continue ESCP / CEMP implementation.                                                                                     | A suitably trained person to inspect the site- refer to CPESC.<br>Review of erosions and sediment structures. Remediate as appropriate.                                                         | Stop works where needed. A suitably trained person to inspect the site. Review of erosion and sediment structures. Remediate as soon as practical- Refer to CPESC.                                                             |
| Water management structures              | Trigger            | Water management structures have been designed, constructed, and managed in accordance with the Blue Book and the ESCPs. | Inspections indicate that water management structures illustrate minor non-compliance with the Blue Book and the ESCPs.                                                                         | Inspections indicate a failure of the water management structures.                                                                                                                                                             |
|                                          | Response           | Continue ESCP / CEMP implementation.                                                                                     | A suitably trained person to inspect the site. Review of water management structures. Remediate as appropriate.                                                                                 | A suitably trained person to inspect the site. Remediate as soon as practical.<br>Review of engineering design and revise ESCPs.                                                                                               |
| Storm event                              | Trigger            | No forecast storm events.                                                                                                | Storm event is forecast.                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Extreme storm event imminent/underway.</li> <li>Review of work activities and Initiate emergency procedures such as ceasing work if required.</li> </ul>                                |



| Key Element                              | Trigger / Response | Condition Green                                                           | Condition Amber                                                                                                                                                                                                      | Condition Red                                                                                                                                                                                                                                                                    |
|------------------------------------------|--------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                          | Response           | Continue ESCP / CEMP implementation.                                      | Monitor forecast. Continue ESCP / CEMP implementation.<br>Pre-emptive inspection / clearing of water management structures and systems. Confirm water sampling equipment is on standby.<br>Review of work activities | <ul style="list-style-type: none"> <li>Continue ESCP / CEMP implementation. Continue inspections of water management structures and systems.</li> <li>Undertake water sampling as required. Initiate emergency procedures if required.</li> </ul>                                |
| <b>Waste</b>                             |                    |                                                                           |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                  |
| Waste                                    | Trigger            | Inspections identified no waste outside of dedicated bins and stockpiles. | Inspections identified minimal waste outside of dedicated bins and stockpiles.                                                                                                                                       | Inspections identified large quantities of waste outside of dedicated bins and stockpiles. Complaints received regarding waste.                                                                                                                                                  |
|                                          | Response           | Continue WMP / CEMP implementation.                                       | Waste is cleaned up immediately.                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>Waste is cleaned up immediately.</li> <li>Incident noted for inclusion in Toolbox talk.</li> <li>Communications and Community Liaison Representative is also notified and the complaints handling process will be implemented.</li> </ul> |
| <b>Hazardous Goods and Contamination</b> |                    |                                                                           |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                  |
| Unexpected Contamination                 | Trigger            | No contamination uncovered during earthworks.                             | Areas of possible contamination uncovered.                                                                                                                                                                           | Areas of contamination uncovered.                                                                                                                                                                                                                                                |
|                                          | Response           | Continue CEMP implementation.                                             | Stop work immediately and the contamination assessed according to the UFP.                                                                                                                                           | Stop work immediately. A validation report is to be prepared following remediation.                                                                                                                                                                                              |
| <b>Community</b>                         |                    |                                                                           |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                  |
| Submission                               | Trigger            | General feedback/comment (no complaint or query).                         | Enquiry made by formal or informal channels.                                                                                                                                                                         | Complaint made by formal or informal channels.                                                                                                                                                                                                                                   |



| Key Element        | Trigger / Response | Condition Green                                                                                               | Condition Amber                                                                                                                                                                   | Condition Red                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | Response           | Acknowledge receipt and record in Complaints Register. No further response required.                          | Acknowledge receipt and record in Complaints Register. Direct enquiry to relevant person for actioning and response within 5 days.                                                | Acknowledge receipt and record in Complaints Register. Respond to complaint immediately, if possible, if not direct enquiry to relevant person for actioning and provide complainant 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. |
| Media              | Trigger            | Positive story in print, online, radio or television.                                                         | Neutral or advisory story in print, online, radio or television.                                                                                                                  | Negative story in print, online, radio or television.                                                                                                                                                                                                                                                                                                        |
|                    | Response           | Record in Complaints Register and advise the proponent media/marketing team.<br>No further response required. | Record in Complaints Register and advise the proponent media/marketing team.<br>No further response required.                                                                     | <ul style="list-style-type: none"> <li>Record in Complaints Register and advise the proponent Project Team for further action and response.</li> <li>Communications and Community Liaison Representative is notified for action and response within 48 hours.</li> </ul>                                                                                     |
| Unscheduled Event  | Trigger            | Event occurring outside of plan or schedule without impact or potential impact.                               | Event occurring outside of plan or schedule with minor impact or potential impact.                                                                                                | Event occurring outside of plan or schedule with major impact or potential impact.                                                                                                                                                                                                                                                                           |
|                    | Response           | No response required. Identify opportunities for improvement to manage potential future events.               | Contact relevant person for actioning and response within 48 hours. Acknowledge in Complaints Register. Identify opportunities for improvement to manage potential future events. | <ul style="list-style-type: none"> <li>Contact relevant person for actioning and response immediately. Acknowledge in Complaints Register.</li> <li>Identify opportunities for improvement to manage potential future events.</li> </ul>                                                                                                                     |
| Political Interest | Trigger            | General or non-specific enquiry by Local, State or Federal political representative.                          | Enquiry or complaint relating to minor issue by Local, State or Federal political representative.                                                                                 | Enquiry or complaint relating to major issue by Local, State or Federal political representative.                                                                                                                                                                                                                                                            |



| Key Element | Trigger / Response | Condition Green                                                                                                                                                                     | Condition Amber                                                                                                                        | Condition Red                                                                                                                                                                                  |
|-------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Response           | CCLR in conjunction with The Proponent Project Team to prepare and provide response or assign response task to relevant staff member for comment.<br>Record in Complaints Register. | CCLR in conjunction with the proponent Project Team to prepare and provide response within 48 hours.<br>Record in Complaints Register. | <ul style="list-style-type: none"> <li>CCLR in conjunction with the proponent Project Team to prepare and provide response within 24 hours.</li> <li>Record in Complaints Register.</li> </ul> |



## 7.0 Review

Review of the CEMP will be undertaken regularly by Burton and will comprise, as a minimum, the following:

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

This CEMP 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 CEMP.
- At the request of a relevant regulatory authority.

Revision of the CEMP is to be in accordance with condition C8 and C9 of SDD- 17647189. These are reproduced below.

*"C8. Within three months of:*

*(a) the submission of an incident report under condition C14;*

*(b) the submission of a Compliance Report under condition C10;*

*(c) the approval of any modification of the conditions of this consent; or*

*(d) the issue of a direction of the Planning Secretary under condition A2(b) which requires a review,*

*the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing of the review's outcome.*

*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."*

**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.





## 8.0 References

Development Consent SSD-17647189

Department of Infrastructure, Planning and Natural Resources (2004) Guideline for the Preparation of Environmental Management Plans

WillowTree Planning (2021) Environmental Impact Statement (EIS) State Significant Application (SSD 17647189)

Allied Traffic Management (2024) Construction Traffic Management Plan

Ochre Environmental Management (2024) Erosion and Sediment Control Plan

Biosis (2021) Dam Dewatering Management Plan

SLR (2024) Construction Noise and Vibration Management Plan

Northstar (2024) Construction Air Quality Management Plan

Sydney Environmental Group (2024) Waste Management Plan

Costin Roe Consulting (2024) Flood Management Plan

Sydney Environmental Group (2024) Unexpected Finds Protocol

Burton (2024) Community Consultation and Complaints Handling Strategy

Biosis (2023) Biodiversity Development Assessment Report





**Appendix A      Development  
Consent- SSD  
17647189**

# Development Consent

## Section 4.38 of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning and Public Spaces under delegation executed on 9 March 2022, I approve the Development Application referred to in Schedule 1, subject to the conditions specified in Schedule 2.

These conditions are required to:

- prevent, minimise, or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the development



Chris Ritchie  
**Director**  
**Industry Assessments**

Sydney

18 December 2023

File: EF21/5277

### SCHEDULE 1

|                            |                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application Number:</b> | SSD-17647189                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applicant:</b>          | Altis Bulky Retail Pty Ltd                                                                                                                                                                                                                                                                                                                                                          |
| <b>Consent Authority:</b>  | Minister for Planning and Public Spaces                                                                                                                                                                                                                                                                                                                                             |
| <b>Site:</b>               | Lot 52 DP 259135 and Lot 53 DP 259135<br>884-928 Mamre Road, Kemps Creek                                                                                                                                                                                                                                                                                                            |
| <b>Development:</b>        | Demolition, and construction of an industrial estate comprising bulk earthworks, fit out and operation of a warehouse and distribution centre and ancillary office space with a total gross floor area of 39,161 m <sup>2</sup> , landscaping, staged 1 and 2 residual lot subdivision, construction of estate roads and intersection, site servicing and stormwater infrastructure |

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## DEFINITIONS

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|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Additional Information</b>     | Additional information submitted by the Applicant following the submission of the RTS including: <ul style="list-style-type: none"> <li>○ <i>SSD-17647189 Proposed Warehouse and Logistics hub</i>, prepared by Willow Tree Planning, dated 12 September 2023;</li> <li>○ Response prepared by Willowtree Planning, dated 8 June 2023;</li> <li>○ Response prepared by Willowtree Planning dated 12 September 2023;</li> <li>○ Revised plan package prepared by Altis and submitted on 13 November 2023;</li> <li>○ Response prepared by Willowtree, (dated 25 January 2023) and submitted on 12 December 2023;</li> <li>○ Response prepared by Barings and submitted on 12 December 2023; and</li> <li>○ <i>Civil Engineering Report</i> and Flood Drawings prepared by Costin Roe Consulting dated 14 December 2023, revision J (ref: 14021.00-07j.rpt)</li> </ul> |
| <b>Aspect Industrial Estate</b>   | SSD-10448, as modified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Applicant</b>                  | Altis Bulky Retail Pty Ltd, or any person carrying out any development to which this consent applies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>BCA</b>                        | Building Code of Australia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>BC Act</b>                     | <i>Biodiversity Conservation Act 2016</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Calendar year</b>              | A period of 12 months commencing on 1 January                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Certifier</b>                  | A council or an accredited certifier (including principal certifiers) who is authorised under section 6.5 of the EP&A Act to issue Part 6 certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>CEMP</b>                       | Construction Environmental Management Plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Conditions of this consent</b> | Conditions contained in Schedule 2 of this document                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Construction</b>               | Construction of a warehouse building, office, hardstands, roads, permanent stormwater infrastructure and landscaping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Council</b>                    | Penrith City Council                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>CPESC</b>                      | Certified Professional in Erosion and Sediment Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Day</b>                        | The period from 7 am to 6 pm on Monday to Saturday, and 8 am to 6 pm on Sundays and Public Holidays                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Demolition</b>                 | The deconstruction and removal of buildings, sheds and other structures on the site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Department</b>                 | NSW Department of Planning and Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Development</b>                | The development described in Schedule 1, the EIS, Response to Submissions (RTS) and Additional Information, including demolition and construction of an industrial estate comprising bulk earthworks, fit out and operation of a warehouse and distribution centre and ancillary office space with a total gross floor area of 39,161 m <sup>2</sup> , landscaping, staged subdivision, construction of estate roads and intersection, site servicing and stormwater infrastructure, as modified by the conditions of this consent                                                                                                                                                                                                                                                                                                                                   |
| <b>Development layout</b>         | The plans at Appendix 1 of this consent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>DPE</b>                        | NSW Department of Planning and Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>The Edge Estate</b>            | SSD-17552047                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Earthworks</b>                 | Bulk earthworks, site levelling, import and compaction of fill material, excavation for installation of drainage and services, to prepare the site for construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>EHG</b>                        | Environment and Heritage Group, DPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>EIS</b>                        | The Environmental Impact Statement titled <i>Access Logistics Park – Proposed Warehouse and Logistics Hub</i> , prepared by Willowtree Planning dated 23 September 2021, submitted with the application for consent for the development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ENM</b>                        | Excavated Natural Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Environment</b>                | As defined in section 1.4 of the EP&A Act                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental Representative Protocol</b> | The document of the same title published by the Department                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>EP&amp;A Act</b>                          | <i>Environmental Planning and Assessment Act 1979</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>EP&amp;A Regulation</b>                   | Environmental Planning and Assessment Regulation 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Evening</b>                               | The period from 6 pm to 10 pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Heritage</b>                              | Encompasses both Aboriginal and historic heritage including sites that predate European settlement, and a shared history since European settlement                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Heritage item</b>                         | An item as defined under the <i>Heritage Act 1977</i> , and assessed as being of local, State and/ or National heritage significance, and/or an Aboriginal Object or Aboriginal Place as defined under the <i>National Parks and Wildlife Act 1974</i> , the World Heritage List, or the National Heritage List or Commonwealth Heritage List under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth), or anything identified as a heritage item under the conditions of this consent |
| <b>Incident</b>                              | 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<br>Note: “material harm” is defined in this consent                                                                                                                                                                                                                                                                                                                    |
| <b>Infrastructure Design Guidelines</b>      | Sydney Water’s Stormwater Scheme Infrastructure Design Guidelines (draft) 2022                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>IWCM</b>                                  | Integrated Water Cycle Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Land</b>                                  | Has the same meaning as the definition of the term in section 1.4 of the EP&A Act                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Material harm</b>                         | Is harm that: <ul style="list-style-type: none"> <li>a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or</li> <li>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)</li> </ul> |
| <b>Minister</b>                              | NSW Minister for Planning and Public Spaces (or delegate)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Mitigation</b>                            | Activities associated with reducing the impacts of the development prior to or during those impacts occurring                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Monitoring</b>                            | Any monitoring required under this consent must be undertaken in accordance with section 9.40 of the EP&A Act                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>MRP</b>                                   | Mamre Road Precinct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MRP DCP</b>                               | Mamre Road Precinct Development Control Plan 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Night</b>                                 | The period from 10 pm to 7 am on Monday to Saturday, and 10 pm to 8 am on Sundays and Public Holidays                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Non-compliance</b>                        | An occurrence, set of circumstances or development that is a breach of this consent                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>NRAR</b>                                  | Natural Resources Access Regulator, DPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>OEMP</b>                                  | Operational Environmental Management Plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Operation</b>                             | The carrying out the use of the warehouse and distribution centre as described in the EIS, RTS and additional information                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Principal Certifier</b>                   | The certifier appointed as the principal certifier for the building work under section 6.6(1) of the EP&A Act or for the subdivision work under section 6.12(1) of the EP&A Act                                                                                                                                                                                                                                                                                                                                    |
| <b>Planning Secretary</b>                    | Planning Secretary of the Department, or delegate                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Reasonable</b>                            | Means applying judgement in arriving at a decision, taking into account: mitigation benefits, costs of mitigation versus benefits provided, community views, and the nature and extent of potential improvements                                                                                                                                                                                                                                                                                                   |
| <b>Regional Stormwater Authority</b>         | Sydney Water Corporation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                                      |                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Registered Aboriginal Parties</b> | Means the Aboriginal persons identified in accordance with the document entitled “ <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> ” (DECCW)                                                                                                                                                                 |
| <b>Rehabilitation</b>                | The restoration of land disturbed by the development to a good condition, to ensure it is safe, stable and non-polluting                                                                                                                                                                                                                       |
| <b>Response to Submissions (RTS)</b> | The Applicant’s response to issues raised in submissions received in relation to the application for consent for the development under the EP&A Act and includes the document titled ‘ <i>Response to Submissions: Access Logistics Park – Proposed Warehouse and Logistics Hub</i> ’, prepared by Willow Tree Planning dated 19 December 2022 |
| <b>Sensitive receivers</b>           | A location where people are likely to work, occupy or reside, including a dwelling, school, hospital, office or public recreational area                                                                                                                                                                                                       |
| <b>Site</b>                          | The land defined in Appendix 1                                                                                                                                                                                                                                                                                                                 |
| <b>Technical Guidance</b>            | <i>Technical Guidance for Achieving Wianamatta-South Creek Stormwater Management Targets</i> (NSW Government, 2022)                                                                                                                                                                                                                            |
| <b>TfNSW</b>                         | Transport for New South Wales                                                                                                                                                                                                                                                                                                                  |
| <b>Trunk Drainage</b>                | Stormwater assets, typically open natural trunk drainage channels, wetlands and storage ponds, as shown on Sydney Water’s Mamre Road Precinct Stormwater Scheme Plan, December 2022                                                                                                                                                            |
| <b>VENM</b>                          | Virgin Excavated Natural Material                                                                                                                                                                                                                                                                                                              |
| <b>WAD</b>                           | Works Authorisation Deed, a contract between TfNSW and the Applicant to undertake roadworks on the State road network                                                                                                                                                                                                                          |
| <b>Waste</b>                         | Has the same meaning as the definition of the term in the Dictionary to the POEO Act                                                                                                                                                                                                                                                           |
| <b>WSUD</b>                          | Water Sensitive Urban Design                                                                                                                                                                                                                                                                                                                   |
| <b>Year</b>                          | A period of 12 consecutive months                                                                                                                                                                                                                                                                                                              |

**SCHEDULE 2**  
**PART A ADMINISTRATIVE CONDITIONS**

**OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT**

- 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 earthworks, construction and operation of the development, and any rehabilitation required under this consent.

**TERMS OF CONSENT**

- 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, Response to Submissions 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 3.
- 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).
- 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.

**LIMITS OF CONSENT**

**Lapsing**

- 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.

**Airspace Operations**

- A6. Any encroachments into protected airspace will require separate approval in accordance with the *Airports Act 1996* and the Airports (Protection of Airspace) Regulations 1996.

**Maximum GFA – Lot 2**

- A7. The maximum GFA for the development on Lot 2 must not exceed the limits described in Table 1.

**Table 1** Maximum GFA of the development

| Land Use                          | Maximum GFA (m <sup>2</sup> ) |
|-----------------------------------|-------------------------------|
| Warehouse and distribution centre | 35,661                        |
| Undercroft warehouse area         | 1,500                         |
| Ancillary office                  | 2,000                         |
| <b>Total</b>                      | <b>39,161 m<sup>2</sup></b>   |

**Operational vehicles**

- A8. The Applicant must ensure no vehicles associated with the operation of the Development use Bakers Lane, Aldington Road, and Abbots Road.

*Note: Vehicles associated with the operation of the Development may use Bakers Lane, Aldington Road, and Abbots Road should the southern half of the Southern Link Road and upgrades of Aldington Road and Abbots Road to distributor industrial road be constructed and commissioned.*



## **NOTIFICATION OF COMMENCEMENT**

- A9. The date of commencement of each of the following phases of the development must be notified to the Department in writing, at least one month before that date, or as otherwise agreed with the Planning Secretary:
- (a) earthworks;
  - (b) construction; and
  - (c) operation;
- A10. If the earthworks, construction or operation of the development is to be staged, the Department 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.

## **EVIDENCE OF CONSULTATION**

- A11. Where conditions of this consent require consultation with an identified party, the Applicant must:
- (a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and
  - (b) provide details of the consultation undertaken including:
    - (i) the outcome of that consultation, matters resolved and unresolved; and
    - (ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.

## **STAGING, COMBINING AND UPDATING STRATEGIES, PLANS OR PROGRAMS**

- A12. With the approval of the Planning Secretary, the Applicant may:
- (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);
  - (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
  - (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).
- A13. 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.
- A14. 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.

## **PROTECTION OF PUBLIC INFRASTRUCTURE**

- A15. Prior to the commencement of earthworks for the development, the Applicant must:
- (a) consult with the relevant owner and provider of services or public infrastructure that are likely to be affected by the development or that need to be installed as part of the development, to make suitable arrangements for relevant approvals, access to, diversion, protection and support of the affected services or infrastructure;
  - (b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and
  - (c) submit a copy of the dilapidation report to the Planning Secretary, TfNSW and Council.
- A16. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:
- (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.

## **DEMOLITION**

- A17. All demolition must be carried out in accordance with *Australian Standard AS 2601-2001 The Demolition of Structures* (Standards Australia, 2001).

## **STRUCTURAL ADEQUACY**

- A18. All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the BCA.

**Note:**

- Under Part 6 of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works.
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.

## **CIVIL PLANS**

- A19. Engineering plans are to be prepared in accordance with the development consent, Penrith City Council's *Design Guidelines for Engineering Works for Subdivisions and Developments*, *Engineering Construction Specification for Civil Works* and Austroads Guidelines.

## **COMPLIANCE**

- A20. 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.

## **DEVELOPMENT CONTRIBUTIONS**

- A21. Prior to the issue of a Construction Certificate (as required by the contributions plan or agreed by Council), the Applicant must pay contributions to Council as required in accordance with the Penrith City Mamre Road Precinct Development Contributions Plan 2022, or any other contributions plan as in force when the later consent takes effect.

*Note: Subject to agreement between Council and the Applicant, local contributions may be satisfied by a planning agreement or works-in-kind agreement between Council and the Applicant.*

- A22. A special infrastructure contribution must be made in accordance with the Environmental Planning and Assessment (Special Infrastructure Contribution – Western Sydney Aerotropolis) Determination 2022 (as in force when this development consent takes effect).

A person may not apply for a Construction Certificate (as the case may require, having regard to the Determination) in relation to the development unless the person provides, with the application, written evidence from the Department of Planning and Environment that the special infrastructure contribution for the development (or that part of the development for which the certificate is sought) has been made or that arrangements are in force with respect to the making of the contribution.

### **More information**

*A request for assessment by the Department of Planning and Environment of the amount of the contribution that is required under this condition can be made through the NSW planning portal (<https://www.planningportal.nsw.gov.au/development-assessment/contributions/sic-online-service>). Please refer enquiries to [SIContributions@planning.nsw.gov.au](mailto:SIContributions@planning.nsw.gov.au).*

## **OPERATION OF PLANT AND EQUIPMENT**

- A23. All plant and equipment used on site, or to monitor the performance of the development, must be:

- (a) maintained in a proper and efficient condition; and
- (b) operated in a proper and efficient manner.

## **SUBDIVISION**

- A24. Prior to the issue of any Subdivision Certificate (except for the Stage 1 subdivision as shown on **Figure 2** in **Appendix 1**), detailed work-as-executed drawings shall be prepared and signed by a Registered Surveyor, which show the finished surface levels of the access road, internal roads, drainage, street trees and any areas of fill, carried out under this consent. The work-as-executed drawing must be submitted to the Certifier, Council and Sydney Water prior to the issue of a Subdivision Certificate.

- A25. Prior to the issuing of a Subdivision Certificate for any stage of the development, the Applicant must provide to the Certifier evidence that all matters required to be registered on title, including easements, have been lodged for registration or registered at the Land Registry Services.

- A26. Prior to the issue of any Subdivision Certificate (except for the Stage 1 subdivision as shown on **Figure 2** in **Appendix 1**):

- (a) a certificate from an electricity and telecommunications provider must be submitted to the Certifier certifying that satisfactory service arrangements to the site have been established; and
- (b) a certificate from the Regional Stormwater Authority must be submitted to the Certifier certifying that satisfactory stormwater servicing arrangements for the site have been established.

- A27. Prior to issue of a Subdivision Certificate that proposes the dedication of any internal estate road as a public road:

- (a) a final inspection of the estate road is to be undertaken by the relevant Roads Authority. All compliance documentation for road and drainage construction of the estate road must be submitted to the relevant Roads Authority in accordance with the relevant Roads Authorities specifications and requirements.

- (b) a Maintenance Bond is to be lodged with Penrith City Council for all road and drainage works that are to be dedicated to the relevant Roads Authority. The value of the bond shall be determined in accordance with Penrith City Council's adopted Fees and Charges.
- (c) where installation of any regulatory / advisory signage and line marking are proposed, plans are to be lodged with Penrith City Council and approved by the Local Traffic Committee
- (d) an application for proposed street names must be lodged with and approved by Penrith City Council and the signs erected on-site. The proposed names must be in accordance with Penrith City Council's Street Naming Policy.

**Note:** Contact Penrith City Council's Engineering Services Department on 4732 7777 for further information on this process and applicable fees.

## **EXTERNAL WALLS AND CLADDING**

- A28. The external walls of all buildings including additions to existing buildings must comply with the relevant requirements of the BCA.
- A29. Prior to the issue of:
  - (a) any Construction Certificate relating to the construction of external walls (including the installation of finishes and claddings such as synthetic or aluminium composite panels); and
  - (b) an Occupation Certificate, the Applicant must provide the Certifier with documented evidence that the products and systems proposed for use or used in the construction of external walls (including finishes and claddings such as synthetic or aluminium composite panels) comply with the requirements of the BCA.
- A30. The Applicant must provide a copy of the documentation given to the Certifier in accordance with Condition A29 to the Planning Secretary within seven days after the Certifier accepts it.

## **UTILITIES AND SERVICES**

- A31. Before the construction of any utility works associated with the development, the Applicant must obtain relevant approvals from service providers.
- A32. Before the commencement of operation of the development, the Applicant must obtain a Compliance Certificate for water and sewerage infrastructure servicing of the site under section 73 of the *Sydney Water Act 1994*.
- A33. Before the issue of a Subdivision or Construction Certificate for any stage of the development, the Applicant (whether or not a constitutional corporation) is to provide evidence, satisfactory to the Certifier, that arrangements have been made for:
  - (a) the installation of fibre-ready facilities to all individual lots and/or premises in a real estate development project to enable fibre to be readily connected to any premises that is being or may be constructed on those lots; and
  - (b) the provision of fixed-line telecommunications infrastructure in the fibre-ready facilities to all individual lots and/or premises in a real estate development project demonstrated through an agreement with a carrier.
- A34. Before the issue of the final Occupation Certificate the Applicant must demonstrate that the carrier has confirmed in writing they are satisfied that the fibre ready facilities are fit for purpose.

## **WORKS AS EXECUTED PLANS**

- A35. Before the issue of the final Occupation Certificate, works-as-executed drawings signed by a registered surveyor demonstrating that the stormwater drainage and finished ground levels have been constructed as approved, must be submitted to the Principal Certifier.

## **ENVIRONMENTAL REPRESENTATIVE**

- A36. The Applicant must engage an Environmental Representative (ER) to oversee earthworks, subdivision and construction of the development. Unless otherwise agreed to by the Planning Secretary, the earthworks and 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 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 A39) in a consultative role in relation to the environmental performance of the development;
  - (k) review the monthly audits of the erosion and sediment controls undertaken by the CPESC in accordance with Condition B36; and
  - (l) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report providing the information set out in the Environmental Representative Protocol under the heading 'Environmental Representative Monthly Reports'. The Environmental Representative Monthly Report must be submitted within seven calendar days following the end of each month for the duration of the ER's engagement for the development, or as otherwise agreed with the Planning Secretary.
- A37. 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 A36 (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).
- A38. The Planning Secretary may at any time commission an audit of an ER's exercise of its functions under A36. The Applicant must:
- (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.

#### **MAMRE ROAD PRECINCT WORKING GROUP**

- A39. Within three months of the commencement of earthworks for the development and until all components of the development are constructed and operational, the Applicant must 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:
- (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 39(d) and 39(e) identifies additional measures and processes are required to be implemented by the working group.
- A40. 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 A39. The Applicant must:
- (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.

#### **APPLICABILITY OF GUIDELINES**

- A41. 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.
- A42. 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.

#### **ADVISORY NOTES**

- 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.

## PART B SPECIFIC ENVIRONMENTAL CONDITIONS

### TRAFFIC AND ACCESS

#### Construction Traffic Management Plan

- B1. Prior to the commencement of earthworks for 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;
    - (i) ensure access to the site and road safety and network efficiency is maintained, and
    - (ii) manage cumulative construction traffic from other concurrent construction works within the Mamre Road Precinct.
  - (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 conflicts with other road users;
    - (iii) minimise road traffic noise; and
    - (iv) ensure truck drivers use specified routes;
  - (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 disruptions to routes.
- B2. The Applicant must:
- (a) not commence earthworks until the Construction Traffic Management Plan required by condition B1 is approved by the Planning Secretary; and
  - (b) implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary for the duration of earthworks and construction.

#### Mamre Road / Access Road 1 Intersection

- B3. Prior to submission of the detailed design of the Stage 1 and 2 intersection works as shown on **Figure 5** and **Figure 6** in **Appendix 1**, the Applicant must:
- (a) pay a plan checking fee to TfNSW;
  - (b) pay a performance bond to TfNSW covering all costs of the Stage 1 and 2 intersection works; and
  - (c) enter into a Works Authorisation Deed (WAD) with TfNSW for this works.
- B4. The Applicant must complete construction of the Stage 1 intersection works (**Figure 5** in **Appendix 1**), prior to the commencement of operation of the development.
- B5. The Applicant must complete construction of the Stage 2 intersection works (**Figure 6** in **Appendix 1**), prior to the commencement of operation of the development, or as otherwise agreed by TfNSW.
- B6. The Applicant must ensure road access to neighbouring properties at 930 – 966 Mamre Road is maintained for the duration of construction and operation, or alternative access is provided as agreed with the relevant landowner.
- B7. The Applicant must not construct any infrastructure (e.g. batter, retaining wall, and drainage basins) required to support the development within the Mamre Road reserve or on land that is zoned SP2.
- B8. The Applicant is responsible for all public utility adjustment/relocation works, as required by the various public utility authorities and/or their agents.
- B9. Prior to the commencement of earthworks, the Applicant must obtain a Road Occupancy Licence (ROL) from Transport Management Centre (TMC) for any works that may impact on traffic flows on Mamre Road during construction.
- B10. Prior to the issue of any Construction Certificate for the development, the Applicant must submit copies of any documentation in relation to road and intersection works to Council for its records.
- B11. All TfNSW costs associated with review of plans, designs and legal must be borne by the Applicant.

### Access to 930-966 Mamre Road, Kemps Creek

- B12. Prior to the construction of the Stage 1 intersection works (see **Figure 5 in Appendix 1**), the Applicant must:
- (a) give written notice to the landowner of 930-966 Mamre Road of the timing for closing the existing driveway, no later than 28 days prior to closure of the driveway to Mamre Road;
  - (b) close the existing driveway from 930-966 Mamre Road located within the Stage 1 intersection works area; and
  - (c) ensure that the new access driveway to 930-966 Mamre Road (shown in Costin Roe Consulting Drawing, Option B, Reference: CO14021.00-SK-231020, Rev A and dated 20/10/2022) is constructed and operational prior to the closure of the existing driveway.
- B13. The Applicant must provide written evidence to the satisfaction of the Planning Secretary and TfNSW demonstrating Condition B12 has been satisfied.

### Internal Access Roads

- B14. Prior to the commencement of construction works (excluding earthworks), the Applicant must:
- (a) prepare a detailed design of the access roads (Access Roads 1, 2 and 3) including the roundabout shown in **Figure 4 in Appendix 1** in accordance with the design requirements in the MRP DCP to the satisfaction of Council; and
  - (b) consult with Council concerning the processes for dedication of the lands for the access roads including the roundabout shown in **Figure 4 in Appendix 1**.
- B15. Prior to the operation of the warehouse on Lot 2, the Applicant must ensure the access roads, roundabout and access point to 930-966 Mamre Road, Kemps Creek are constructed and operational in accordance with the plans required by Conditions B12 and B14.
- B16. Within one month of registration of lot(s) for Access Roads 1, 2 and 3 including the roundabout at the Land Registry Services, the Applicant must notify the Planning Secretary that the lands for the internal Access Roads have been dedicated to Council.
- B17. Prior to the commencement of construction, the Applicant must obtain approval from Council for a concept Signage and Line Marking Plan for Access Roads 1, 2 and 3 to Council's Traffic Committee for endorsement.

### Connection of Access Road 3 to Aspect Industrial Estate

- B18. Within six months of the date of this consent, the Applicant must prepare and submit the following plans to facilitate the construction and delivery of the connection of Access Road 3 to Berriwerri Drive in the Aspect Industrial Estate (AIE). The plans must be prepared in consultation with Council and the landowner of the AIE to the satisfaction of the Planning Secretary and include:
- (a) a Staging Plan for the connection, including:
    - i. details of the scope of works to be undertaken on the site and the adjoining AIE (**Mirvac**) site (see **Figure 4, Appendix 1**);
    - ii. details of the timing of the works; and
  - (b) a detailed design plan of the connection to the AIE prepared in accordance with the design requirements under the MRP DCP.

**Note:** The detailed design of roads may require modification(s) to SSD-17647189 or separate DA(s).

- B19. Prior to commencement of operation of the development, the Applicant must construct Access Road 3 to the site boundary with the AIE, to the satisfaction of the Planning Secretary.
- B20. The Applicant must ensure the connection of Access Road 3 to Berriwerri Drive in the AIE is constructed and operational in accordance with the plans required by Condition B18, within 3 months of Berriwerri Drive in the AIE being completed, to the satisfaction of the Planning Secretary.

### Eastern leg of Roundabout to Edge Estate

- B21. Within six months of the date of this consent, the Applicant must prepare and submit the following plans to facilitate the construction and delivery of the eastern leg of the roundabout, in consultation with Council and the landowner of the Edge Estate, and to the satisfaction of the Planning Secretary and must include:
- (a) a plan for the eastern leg of the roundabout, including:
    - i. details of the scope of works to be undertaken on the site and the adjoining site of the Edge Estate (Fraser's), (see, **Figure 4, Appendix 1**);
    - ii. details of the delivery of the works; and

- (b) a detailed design of the eastern leg of the roundabout prepared in accordance with the design requirements under the MRP DCP.

**Note:** *The detailed design of the eastern leg of the roundabout may require modification(s) to SSD-17647189 or separate DA(s).*

- B22. The Applicant must ensure the eastern leg of the roundabout is constructed in accordance with the design plans in Condition B21.

### **Freight Corridor**

- B23. Prior to commencement of earthworks, the Applicant must ensure that all drainage from the development is adequately disposed of and managed and is not discharged into the freight corridor unless prior written approval has been obtained from TfNSW.
- B24. Prior to the issue of a Construction Certificate for the bulk earthworks, the Applicant must submit the following documents to TfNSW for review and obtain written confirmation from the Certifier that the construction drawings and specifications comply with these documents:
- (a) bulk earthworks detailed design drawings;
  - (b) bulk earthworks sections detailed design; and
  - (c) detailed design section drawings (in the area of the future dedicated freight corridor).

A copy of the confirmation from the Certifier must be provided to TfNSW, prior to the commencement of earthworks.

### **Parking**

- B25. The Applicant must provide sufficient parking facilities on-site in accordance with the MRP DCP, including for heavy vehicles and for site personnel, to ensure that traffic associated with the development does not utilise public and residential streets or public parking facilities.
- B26. Prior to the issue of the Occupation Certificate for the warehouse building, the development must include bicycle parking and end of trip facilities in accordance with Australian Standard AS1742.9:2018 Manual of Uniform Traffic Control Devices - Bicycle Facilities, and Cycling Aspects of Austroads Guides. Any bicycle parking and storage facilities must be secure, convenient, well lit, physically and visually accessible and within close proximity to the main entrance in accordance with Austroads guidelines.
- B27. A minimum of 5% of parking bays must be provided for electric vehicle charging, with a further 5% constructed as readily adaptable.

### **Street Trees**

- B28. Prior to the commencement of any stage of road construction, detailed design plans showing the provision of passively irrigated street trees within the relevant stage of works must be submitted to the satisfaction of Council. The plans must:
- (a) be prepared in consultation with Council; and
  - (b) demonstrate compliance with the MRP DCP.

### **Operating Conditions**

- B29. 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 *AS 2890.1:2004 Parking facilities Off-street car parking* (Standards Australia, 2004) and *AS 2890.2:2002 Parking facilities Off-street commercial vehicle facilities* (Standards Australia, 2002);
  - (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;
  - (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 and unloading of materials is carried out on-site;
  - (g) all trucks entering or leaving the site with loads have their loads covered and do not track dirt onto the public road network; and
  - (h) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times



### **Operational Traffic Monitoring Program**

- B30. At the commencement of operation of the development and for a minimum period of 12 months of operation, the Applicant must establish an Operational Traffic Monitoring Program to verify light and heavy vehicle traffic numbers against the predictions in the RTS. The program must be included in the OEMP and must monitor the effectiveness of the traffic management measures to the satisfaction of the Planning Secretary and include but not be limited to the following:
- (a) detail the numbers and frequency of truck movements, sizes of trucks, vehicle routes and hours of operation;
  - (b) queue monitoring at the Mamre Road / Access Road 1 (LILO) intersection and background travel counts on Mamre Road;
  - (c) verify the predicted traffic numbers and level of service against the actual impacts of the development, and analyse the potential cause of any significant discrepancies;
  - (d) consider the current capacity and efficiency of the existing road network including Mamre Road; and
  - (e) include procedures for the reporting and monitoring of results to evaluate the traffic performance of the development.

### **Workplace Travel Plan**

- B31. Prior to the commencement of operation of the development, the Applicant must prepare a Work Place Travel Plan and submit a copy to the Planning Secretary. The Work Place Travel Plan must form part of the OEMP required by condition C5 and must:
- (a) be prepared in consultation with TfNSW;
  - (b) outline facilities and measures to promote public transport usage, such as car share schemes and employee incentives; and
  - (c) describe pedestrian and bicycle linkages and end of trip facilities available on-site.
- B32. The Applicant must implement the most recent version of the Work Place Travel Plan for the duration of the development.

## **EARTHWORKS**

### **Imported Soil**

- B33. The Applicant must:
- (a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site;
  - (b) where possible, source fill material from within the MRP;
  - (c) keep accurate records of the volume and type of fill to be used; and
  - (d) make these records available to the Planning Secretary upon request.

## **WATER QUALITY AND HYDROLOGY**

### **Dam Decommissioning Plan**

- B34. Prior to commencement of earthworks the Applicant must prepare a Dam Decommissioning Plan, addressing the Guidelines for Controlled Activities on Waterfront Land, to the satisfaction of the Planning Secretary. The Dam Decommissioning Plan must form part of the CEMP required by Condition C2. The Applicant must implement the Dam Decommissioning Plan approved by the Planning Secretary.

### **Erosion and Sediment Control**

- B35. Prior to the commencement of earthworks or other surface disturbance, the Applicant must prepare an Erosion and Sediment Control Plan (ESCP) to the satisfaction of the Planning Secretary. The ESCP must:
- (a) be prepared by a Certified Professional in Erosion and Sediment Control (CPESC) specialist whose appointment has been approved by the Planning Secretary;
  - (b) be prepared in consultation with EHG, Sydney Water and Council and include written evidence of the outcomes of the consultation process and how the recommendations have been incorporated into the ESCP;
  - (c) be independently reviewed and verified by the ER prior to submission to the Planning Secretary;
  - (d) comply with the detailed technical specifications in the Technical Guidance or its latest version, the 'Blue Book' - Managing Urban Stormwater: Soils and Construction (Landcom 2004) and the performance criteria in **Appendix 4** in this consent;
  - (e) detail measures to protect passively irrigated street trees during construction works, if these are installed before construction is completed; and
  - (f) be included in the CEMP required by Condition C2.
- B36. The Applicant must:

- (a) not commence earthworks until the ESCP required by Condition B35 is approved by the Planning Secretary;
- (b) ensure installation and operation of the erosion and sediment controls are supervised and certified by the CPESC appointed under Condition B35(a);
- (c) implement the ESCP approved by the Planning Secretary for the duration of earthworks and construction; and
- (d) engage the CPESC to conduct monthly audits of the erosion and sediment controls for the duration of earthworks and construction and for a further 12 months following the completion of construction works to ensure the controls remain effective in achieving the construction phase stormwater quality targets in the Technical Guidance. Monthly audit reports must be provided to the Planning Secretary within 7 days of completing the audit.

B37. The ER appointed in accordance with Condition A36, shall make a written statement to the Planning Secretary confirming the erosion and sediment controls are operational, prior to the commencement of earthworks and other construction activities for the development. The ER must also verify that disturbed areas have been adequately stabilised at the completion of earthworks.

### **Discharge Limits**

B38. The development must comply with section 120 of the POEO Act, which prohibits the pollution of waters, except as expressly provided for in an EPL.

### **Stormwater Management System Design**

B39. Within three months of the date of this consent, or as otherwise agreed by the Planning Secretary, the Applicant must design the stormwater management system to the satisfaction of the Planning Secretary. The stormwater management system design must:

- (a) be prepared in consultation with EHG, Sydney Water and Council and include written evidence of the outcomes of the consultation process and how the recommendations have been incorporated into the stormwater management system design;
- (b) be prepared and certified by a suitably qualified chartered professional engineer with experience in modelling, design and supervision of WSUD systems, whose appointment has been endorsed by the Planning Secretary;
- (c) be consistent with the plan shown on **Figure 7 in Appendix 1**;
- (d) include all private, Council and trunk drainage infrastructure within the site including connections to adjacent landholdings;
- (e) be designed in accordance with the Technical Guidance and demonstrate:
  - (i) through MUSIC modelling, how the waterway health objectives and targets set out in the MRP DCP and Technical Guidance will be achieved;
  - (ii) how the development will ultimately connect to the Regional Stormwater Scheme and how the interim measures (such as the water reuse components of on-site detention tanks, bioretention systems and rainwater tanks) will be decommissioned once the development is connected to the Regional Stormwater Scheme;
  - (iii) that all stormwater management devices contain an impermeable liner and all naturalised trunk drainage (or other open drainage) is either lined with an impermeable liner, or ameliorated (i.e., gypsum), and compacted to a suitable depth and topsoiled (AS44119) to limit infiltration to soils;
- (f) include functional design drawings that addresses the requirements of EHG's letter dated 26 September 2023;
- (g) ensure proprietary devices are located on private land and only include sediment and nutrient removal if certified under Stormwater Quality Improvement Device Evaluation Protocol (SQIDEP);
- (h) ensure gross pollutant traps are appropriately sized and designed in accordance with the Infrastructure Design Guidelines;
- (i) demonstrate that sufficient land is reserved on-site for stormwater management purposes (such as irrigation areas and undeveloped areas) as shown on **Figure 7 in Appendix 1**, to ensure the development meets the waterway health objectives and targets in the MRP DCP and Technical Guidance, unless an alternative stormwater management strategy has been approved by the Planning Secretary;
- (j) include landscape drawings that include planting details of the WSUD systems;
- (k) include certification (and appropriate designed checklists) of the civil and landscape drawings by the chartered professional engineer appointed under Condition B39(b), that the design drawings comply with the Technical Guidance; and
- (l) include evidence that the design and mix of WSUD infrastructure has considered ongoing operation and maintenance, including a detailed lifecycle cost assessment (including capital, operation / maintenance and renewal costs over 30 years).

- B40. The Applicant must:
- (a) not commence earthworks until the design required by Condition B39 is approved by the Planning Secretary;
  - (b) ensure construction of the stormwater management system is supervised and certified by a suitably qualified chartered professional engineer with experience in modelling, design and supervision of WSUD systems; and
  - (c) implement the stormwater management system approved by the Planning Secretary prior to the commencement of operation of the development.
- B41. The Applicant must not carry out construction, other than those works approved under this consent, on land shown as 'landscape irrigation areas' on **Figure 7 in Appendix 1** (SSDA-405 Water Sensitive Urban Design Management Plan, Rev E), or within Lots 7, 11 or 12, unless the site is connected to the Regional Stormwater Scheme or an alternative Stormwater Management System for the site has been approved by the Planning Secretary.

### **Trunk Drainage Design**

- B42. Within three months of the date of this consent, the Applicant must design the trunk drainage infrastructure on the site, to the satisfaction of the Planning Secretary. The trunk drainage infrastructure must:
- (a) be designed in consultation with the Regional Stormwater Authority;
  - (b) be integrated into the Stormwater Management System Design required under Condition B39;
  - (c) document interim and ultimate (concept) at the upstream connection, consistent with the plan shown at **Figure 8 in Appendix 1** and the Infrastructure Design Guidelines 2022 or its latest version, unless otherwise agreed with the Regional Stormwater Authority and TfNSW;
  - (d) be designed so that the naturalised trunk drainage channel is used to convey all overland flows up to the 1% AEP critical flow where the catchment area upstream of the commencement of the trunk drainage exceeds 15 ha or where overland flows are unsafe to pedestrians and vehicles, whichever occurs first. Flows up to the critical probably maximum flood (PMF) shall be considered to understand the failsafe position of the trunk drainage;
  - (e) include updated flow modelling using DRAINS (ILSAX or Laurenson's Methods) and demonstrate consistency with the model parameters in the Infrastructure Design Guidelines;
  - (f) include adequate access for management and maintenance by the Regional Stormwater Authority, in accordance with the Infrastructure Design Guidelines, including provision of an easement as required under Condition B47;
  - (g) include appropriate connections from the trunk drainage channel on site to the existing downstream flow paths, until such time as the permanent drainage infrastructure downstream of the site is constructed;
  - (h) be informed by undertaking a risk assessment with Sydney Water, per Sydney Water's requirements on design options for connection of trunk drainage to the downstream piped trunk drainage system on neighbouring land to ensure best practice safety outcomes are achieved;
  - (i) ensure any connections into the trunk drainage channel on the site are designed to accommodate the trunk drainage channel design requirements; and
  - (j) include landscape drawings with planting details.
- B43. The Applicant must:
- (a) not commence earthworks on site (except for the earthworks required to construct the Lot 2 building pad) until the design required by Condition B42 is approved by the Planning Secretary;
  - (b) ensure construction of the trunk drainage infrastructure is supervised and certified by a suitably qualified chartered professional engineer with experience in modelling, design and supervision of WSUD systems; and
  - (c) not commence operation of the development until the trunk drainage infrastructure is implemented in accordance with the design approved by the Planning Secretary under Condition B42.

### **Water and Stormwater Management Plan**

- B44. Prior to the commencement of operation of the development, the Applicant must prepare a Water and Stormwater Management Plan to the satisfaction of the Planning Secretary. The plan must:
- (a) be prepared by a suitably qualified chartered professional engineer with experience in modelling, design and supervision of WSUD systems, whose appointment has been endorsed by the Planning Secretary;
  - (b) be prepared in consultation with EHG, Sydney Water, Council and the Department;
  - (c) comply with the requirements of the Technical Guidance for the preparation of a Water and Stormwater Management Plan;
  - (d) demonstrate how the development will comply with the stormwater quality and quantity targets in the Technical Guidance;
  - (e) be consistent with the design approved under Condition B39 and the plan shown on **Figure 7 in Appendix 1**;

- (f) include:
  - (i) detailed engineering drawings for all WSUD elements including plan views, cross-sections and long sections;
  - (ii) detailed landscape drawings with topsoil requirements, planting schedules and hardscape (maintenance access) details;
  - (iii) an operation and maintenance plan for the WSUD measures;
- (g) ensure:
  - (i) relevant external catchments (per natural catchment boundaries) are drained to trunk drainage;
  - (ii) ensure the discharge to the culverts in Mamre Road aligns with the current Mamre Road alignment and future road upgrade, as required by TfNSW;
- (h) include a protocol for investigating any non-compliances with the IWCM controls in the MRP DCP and the waterway health objectives and targets in the Technical Guidance and detail the contingency measures that would be implemented to address non-compliances;
- (i) detail triggers for a review of the plan, including, but not limited to a review of the plan within 6 months of the Regional Stormwater Scheme being available for the site to connect to; and
- (j) include certification (and appropriate designed checklists) for the WSUD measures by the chartered professional engineer appointed under Condition B44(a), that the detailed design complies with the Technical Guidance.

B45. The Applicant must:

- (a) not commence operation of the development until the Water and Stormwater Management Plan required by Condition B44 is approved by the Planning Secretary; and
- (b) implement the most recent version of the Water and Stormwater Management Plan approved by the Planning Secretary for the duration of the development.

#### **Water Reuse**

B46. The Applicant must ensure any stormwater that is harvested for reuse during the interim stormwater management phases is first treated and disinfected in accordance with Australian Guidelines for Water Recycling: Managing Health and Environmental Risks: Stormwater harvesting and reuse (NRM, EPHC and NHMRC 2009).

#### **Easements and Maintenance**

B47. Prior to the issue of a Compliance Certificate under Section 73 of the *Sydney Water Act, 1994*, an easement under section 88A and / or restriction or public positive covenant under section 88E of the *Conveyancing Act 1919* naming the Regional Stormwater Authority (Sydney Water) as the prescribed authority, which can only be revoked, varied or modified with the consent of the Regional Stormwater Authority and which provides for appropriate access to all trunk drainage land for maintenance at no cost to the Regional Stormwater Authority must be registered on the title of the land.

B48. The permanent stormwater management system must continue to be operated and maintained in perpetuity for the life of the development in accordance with the final operation and maintenance management plan. Regular inspection records are required to be maintained and made available to Council on request. All necessary improvements are required to be made immediately upon awareness of any deficiencies in the stormwater management systems.

**Note:** *This does not include any passively irrigated street trees that may be transferred to the relevant roads authority. This also does not include trunk drainage infrastructure for which maintenance and operation will be transferred to the Regional Stormwater Authority*

B49. All stormwater infrastructure (excluding the trunk drainage corridor), including bio-retention basins, shall remain under the ownership, control and care of the registered proprietor of the lots until which time they are decommissioned to connect to the Regional Scheme. Upstream drainage catchment pipes are to be located outside of the public road reserve and remain in private ownership, in accordance with Council requirements.

**Note:** *This does not include any passively irrigated street trees that may be transferred to the relevant roads authority. This also does not include trunk drainage infrastructure for which maintenance and operation will be transferred to the Regional Stormwater Authority.*

B50. Prior to the issue of any Occupation Certificate, a restriction on the use of land and positive covenant relating to the permanent stormwater management systems (including on-site detention and water sensitive urban design), shall be registered on the title of the relevant lots. The restriction on the use of land and positive covenant shall be in Penrith City Council's standard wording as detailed in Council's Stormwater Drainage Specification for Building Developments – Appendix F.

#### **Vegetation Management Plan**

B51. The Applicant must prepare a Vegetation Management Plan for the trunk drainage corridor located on-site, to the satisfaction of the Planning Secretary. The plan must form part of the OEMP required by Condition C5 and must:

- (a) be prepared in consultation with Sydney Water and Council
- (b) be consistent with the trunk drainage design and landscape drawings prepared in accordance with Condition B42; and
- (a) detail monitoring and maintenance timeframes and responsibilities.

B52. The Applicant must revegetate and maintain the trunk drainage corridor in accordance with the updated Vegetation Management Plan approved by the Planning Secretary, until ownership or maintenance responsibility for the corridor is transferred to the Regional Stormwater Authority.

### Flood Management

B53. Prior to the commencement of construction, the Applicant must prepare a Flood Emergency Response Plan to the satisfaction of the Planning Secretary. The Plan must form part of the CEMP and OEMP required by Conditions C2 and C5 and must:

- (a) be prepared by a suitably qualified and experienced person(s) whose appointment has been endorsed by the Planning Secretary;
- (b) address the provisions of the *Floodplain Risk Management Guideline* (OEH, 2007);
- (c) include details of:
  - (i) the flood emergency responses for both construction and operation phases of the development;
  - (ii) predicted flood levels;
  - (iii) flood warning time and flood notification;
  - (iv) assembly points and evacuation routes;
  - (v) evacuation and refuge protocols; and
  - (vi) awareness training for employees and contractors.

B54. The Applicant must:

- (a) not commence construction until the Flood Emergency Response Plan required by condition B51 is approved by the Planning Secretary; and
- (b) implement the most recent version of the Flood Emergency Response Plan approved by the Planning Secretary for the duration of the development.

B55. All floor levels must be no lower than the 1% Annual Exceedance Probability flood plus 0.5 m of freeboard.

B56. Any structures below the 1% Annual Exceedance Probability plus 0.5 m of freeboard must be constructed from flood compatible building components.

### NOISE

#### Hours of Work

B57. 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         |
|-----------------------------|-----------------|--------------|
| Earthworks and construction | Monday – Friday | 7 am to 6 pm |
|                             | Saturday        | 8 am to 1 pm |
| Operation                   | Monday – Sunday | 24 hours     |

B58. Works outside of the hours identified in condition B57 may be undertaken 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.

#### Construction Noise Limits

B59. 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 the **Appendix 3**.

## Construction Noise and Vibration Management Plan

- B60. 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
- be prepared by a suitably qualified and experienced noise expert whose appointment has been endorsed by the Planning Secretary;
  - be approved by the Planning Secretary prior to the commencement of earthworks for the development;
  - 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);
  - describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers;
  - include strategies that have been developed with the community for managing high noise generating works including acoustic screens around the perimeter of the site; and
  - describe the community consultation undertaken to develop the strategies in condition B60(e).
  - include a complaints management system that would be implemented for the duration of the development.
- B61. The Applicant must:
- not commence earthworks until the Construction Noise and Vibration Management Plan required by condition B60 is approved by the Planning Secretary; and
  - implement the most recent version of the Construction Noise and Vibration Management Plan approved by the Planning Secretary for the duration of construction.

## Operational Noise Limits

- B62. The Applicant must ensure that operational noise generated from the site does not exceed the noise limits in Table 3.

**Table 3 Noise Limits ( $L_{eq}$  (15 min) dB(A))**

| Receiver ID     | Receiver Type                         | Day | Evening | Night |
|-----------------|---------------------------------------|-----|---------|-------|
| 1, 2, 4, 5 & AD | Residences in MRP                     | 46  | 41      | 36    |
| 3               | Residence in MRP                      | 41  | 41      | 36    |
| AQ              | Place of Worship in MRP (BAPS Temple) | 31  | 31      | 31    |
| J to AP         | Residence outside of MRP              | 34  | 29      | 24    |

*Note* Noise generated by the development is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Noise Policy for Industry (EPA, 2017) (as may be updated or replaced from time to time). Refer to Appendix 2 for the location of sensitive receivers.

## Noise Barrier

- B63. The Applicant must construct the noise barrier shown in the Acoustic Report, prepared by Acoustic Works and dated 24 July 2023 as shown on **Figure 11** in **Appendix 1** (Reference: 1020168 R01ZL 884-928 Mamre Road Kemps Creek ENV.docx), prior to the commencement of operation of the development.
- B64. The Applicant must provide evidence to the satisfaction of the Planning Secretary demonstrating the noise barrier has been constructed in accordance with Condition B63.

## Noise Verification Report

- B65. Prior to the issue any construction certificate for the warehouse on Lot 2, the Applicant must prepare and submit a Design Noise Verification Report for the development to the satisfaction of the Planning Secretary. The Applicant must not commence construction of the warehouse until the Design Noise Verification Report is approved by the Planning Secretary. The Design Noise Verification Report must:
- include detailed design and mechanical plant required for the tenant;
  - modelling and analysis of compliance with noise limits specified in condition B62
  - an outline of management actions to be taken to address any exceedances of the limits specified in Condition B62; and
  - a description of contingency measures in the event management actions are not effective in reducing noise levels to an acceptable level.

- B66. Should the Design Noise Verification Report identify that the noise limits in Condition B62 cannot be achieved through the mitigation measures and contingency measures required to be considered under Condition B65, the Applicant must:
- (a) offer to enter into noise agreement(s) with the landowner/s of 930-966 Mamre Road, Kemps Creek; and
  - (b) provide written evidence to the Planning Secretary that an agreement is in place with these receivers.
- B67. The noise agreement required under Condition B66 must be in force until the existing residential use/s ceases on the land subject to the agreement or a development consent for general industrial or other employment uses applies to the land, whichever is the sooner.
- B68. If a Noise Agreement is in place with a specific receiver(s) to exceed the noise limits in Condition B62, the noise limits in Table 4 do not apply to that receiver(s).
- B69. Within three months of the commencement of operation of the development, the Applicant must prepare and submit an Operational Noise Verification Report for the development to the satisfaction of the Planning Secretary. The Operational Noise Verification Report must:
- (a) be prepared by a suitably qualified, experienced and independent acoustic consultant whose appointment has been endorsed by the Planning Secretary;
  - (b) demonstrate that noise verification has been carried out in accordance with:
    - (i) the Australian Standard AS 1055:2018 Acoustics – Description and measurement of environmental noise (Standards Australia, 2018); and
    - (ii) the EPA Approved Methods for the Measurement and Analysis of Environmental Noise in NSW (EPA, 2022);
  - (c) include:
    - (i) an analysis of compliance with noise limits specified in Condition B62;
    - (ii) an outline of implemented at-source and transmission pathway mitigation measures and their effectiveness at reducing operational noise; and
    - (iii) a description of contingency measures in the event implemented mitigation measures are not effective at reducing noise levels to comply with limits specified in Condition B62 at all times.

## Road Traffic Noise

- B70. Prior to the commencement of earthworks, 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.

## VIBRATION

### Vibration Criteria

- B71. Vibration caused by earthworks and construction at any residence or structure outside the site must be limited to:
- (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
  - (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).
- B72. 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 B71.
- B73. The limits in conditions B71 and B72 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.

### Dilapidation Reporting

- B74. The Applicant must offer and prepare (if the offer is accepted) a pre-dilapidation and post-dilapidation survey at 930-966 Mamre Road Kemps Creek:
- (a) prior to the commencement of construction; and
  - (b) within one month of the conclusion of construction, or as otherwise agreed with the Planning Secretary.
- The surveys must be submitted to the Planning Secretary and the relevant property owners prior to construction works commencing on the site.
- B75. Should the survey at Condition B74(b) identify any damage, the Applicant must discuss the repairs to be undertaken with the relevant property owners, and repair or pay the full costs associated with repairing any part of the building that is determined to be damaged by the carrying out construction works associated with the development.

## VISUAL AMENITY

### Landscaping

- B76. Within 12 months of the commencement of construction of the development, the Applicant must prepare a Landscape Management Plan to manage the landscaping works on-site, to the satisfaction of the Planning Secretary. The plan must form part of an OEMP in accordance with conditions C5. The plan must be prepared in consultation with Council and:
- (a) detail the species to be planted on-site that;
    - (i) are consistent with the plant list in Appendix C of the MRP DCP; and
    - (ii) are suitable in relation to wildlife management in proximity to the Western Sydney Airport.
  - (b) convert the car parking spaces located partially within the MRP DCP landscaped setbacks (adjacent to the collector road) into landscaping / deep soil zones;
  - (c) be consistent with:
    - (i) the Applicant's Management and Mitigation Measures (see **Appendix 3**); and
    - (ii) Appendix 4 of *Planning for Bushfire Protection* (RFS 2019);
    - (iii) demonstrate that the minimum tree canopy targets are achieved in accordance with the MRP DCP; and
  - (d) describe the monitoring and maintenance measures to manage revegetation and landscaping works.
- B77. The Applicant must:
- (a) implement the most recent version of the Landscape Management Plan approved by the Planning Secretary and not commence operation until the landscaping works have been completed in accordance with the plan; and
  - (b) maintain the landscaping and vegetation on the site in accordance with the approved Landscape Management Plan required by condition B76 for the life of the development.
- B78. Prior to the issue of an Occupation Certificate, the Applicant must provide the Certifier with written evidence in the form of plans and a report prepared by the project landscape architect confirming that trees identified in the approved document package as contributing to the site's canopy target have been installed and that the trees are capable of reaching maturity in their locations. Where the canopy cover target (in accordance with the MRP DCP) is identified as not being achievable through those trees planted, the report is to detail what measures have been undertaken to address the tree canopy shortfall and a rectification plan is to be provided.

### Lighting

- B79. The Applicant must ensure the lighting associated with the development:
- (a) complies with the latest version of AS 4282-1997 - *Control of the obtrusive effects of outdoor lighting* (Standards Australia, 1997); and
  - (b) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.

### Signage

- B80. The Applicant must prepare a Detailed Signage Strategy for the site demonstrating consistency with the MRP DCP. The Detailed Signage Strategy must be prepared to the satisfaction of the Planning Secretary.

## AIR QUALITY

### Dust Minimisation

- B81. The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.
- B82. During construction, the Applicant must ensure that:
- (a) exposed surfaces and stockpiles are suppressed by regular watering;
  - (b) all trucks entering or leaving the site with loads have their loads covered;
  - (c) trucks associated with the development do not track dirt onto the public road network;
  - (d) public roads used by these trucks are kept clean; and
  - (e) land stabilisation works are carried out progressively on site to minimise exposed surfaces.

### Construction Air Quality Management Plan

- B83. Prior to the commencement of operation, 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);



- (b) detail and rank all emissions from all sources of the development, including particulate emissions;
- (c) describe a program that is capable of evaluating the performance of the construction and determining compliance with key performance indicators;
- (d) identify the control measures that will be implemented for each emission source; and
- (e) nominate the following for each of the proposed controls:
  - (i) key criteria;
  - (ii) monitoring method; and
  - (iii) locations, frequency and duration of monitoring;
- (f) outline procedures that will be implemented in relation to:
  - (i) record keeping;
  - (ii) reporting to the Environmental Representative required under Condition A36;
  - (iii) complaints register;
  - (iv) response procedures; and
  - (v) compliance monitoring;
- (g) detail contingency measures to be implemented to reduce any exceedances of relevant performance indicators or criteria and include a timetable for implementation.

B84. The Applicant must:

- (a) not commence earthworks until the Construction Air Quality Management Plan required by condition B83 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 development.

#### **Odour Management**

B85. The Applicant must ensure the development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).

#### **ABORIGINAL HERITAGE**

B86. Prior to the commencement of earthworks, the Applicant must implement the recommendations outlined in Section 8 of the Aboriginal Cultural Heritage Assessment Report, prepared by Austral Archaeology Pty Ltd and dated 9 July 2021.

B87. If any item or object of Aboriginal heritage significance is identified on site:

- (a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately;
- (b) a 10 m wide buffer area around the suspected item or object must be cordoned off; and
- (c) Heritage NSW must be contacted immediately.

B88. 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*.

#### **HISTORIC HERITAGE**

##### **Unexpected Finds Protocol**

B89. If any archaeological relics are uncovered during the course of the work, then all works must cease immediately in that area. Unexpected finds must be evaluated and recorded in accordance with the requirements of Heritage NSW.

#### **BIODIVERSITY**

B90. Prior to commencement of construction of the Stage 1 and 2 intersection works, the Applicant must purchase and retire the following biodiversity credits:

- (a) one ecosystem credit for the River Flat Eucalypt Forest – on coastal floodplains of NSW, North Coast, Sydney Basin and South East corner Bioregions (PCT 835);
- (b) one ecosystem credit for the Cumberland Plain Woodland in the Sydney basin bioregion (PCT 849); and
- (c) two species credits for the Southern Myotis.

The biodiversity credits must be retired in accordance with the requirements of EHG's Biodiversity Offsets Scheme and the *Biodiversity Conservation Act 2016*.

B91. The requirement to retire biodiversity credits (see Condition B90) may be satisfied by payment to the Biodiversity Conservation Fund of an amount equivalent to the number and classes of credits, as calculated by the EHG's Biodiversity Offsets Payment Calculator.

B92. The Applicant must provide the Planning Secretary with evidence that:

- (a) the retirement of ecosystem credits has been completed (see Condition B90); or
  - (b) a payment has been made to the Biodiversity Conservation Fund (see Condition B91),
- prior to undertaking any clearing or construction works.

B93. Prior to commencement of earthworks or construction, the Applicant must implement the mitigation measures recommended in Section 7 of the Biodiversity Development Assessment Report, prepared by Biosis and dated 2 August 2023.

## HAZARDS AND RISK

### Dangerous Goods

- B94. The quantities of dangerous goods stored and handled at the individual lots for the site must be below the threshold quantities listed in the Department of Planning's Hazardous and Offensive Development Application Guidelines – Applying SEPP 33 at all times and not trigger the Chapter 3 of *State Environmental Planning Policy (Resilience and Hazards) 2021*.
- B95. Dangerous goods, as defined by the Australian Dangerous Goods Code, must be stored and handled strictly in accordance with:
- (a) all relevant Australian Standards;
  - (b) for liquids, the NSW EPA's Storing and Handling of Liquids: Environment Protection – Participants Manual
- B96. In the event of an inconsistency between the requirements of Conditions B95(a) to B95(b) the most stringent requirement must prevail to the extent of the inconsistency.

### Fire Safety

- B97. Prior to the commencement of operation of the development, the Applicant must prepare an Emergency Response Plan (ERP). The ERP must form part of the OEMP and be prepared in accordance with Condition C5. The Plan must:
- (a) be prepared in consultation with FRNSW;
  - (b) specifically address foreseeable on-site and off-site fire events and other emergency incidents, (e.g. LPG unloading incident ignition and fire, flammable liquid store fire or potential hazmat incidents, and any unique hazards specific to the site);
  - (c) detail the appropriate risk control measures that would need to be implemented for emergency incidents, including physical protection and procedural measures to address potential risks to the health and safety of firefighters and other first responders; and
  - (d) include an Emergency Services Information Package (ESIP) in accordance with FRNSW guideline: Emergency Services Information Package and Tactical Fire Plans for use by responding firefighters.
- B98. Two copies of the ERP and ESIP are to be stored in a prominent 'Emergency Information Cabinet' which is located in a position directly adjacent to the site's main entry point/s.

## CONTAMINATION

### Unexpected Finds

- B99. Prior to the commencement of earthworks, the Applicant must prepare an unexpected contamination 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 must be disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site.
- B100. Prior to the commencement of earthworks, the Applicant must prepare a hazardous building materials survey of the structures on site and present the findings of this survey to the Certifier.

### Asbestos

- B101. The Applicant must ensure that any asbestos encountered during the earthworks and construction is monitored, handled, transported and disposed of by appropriately qualified and licensed contractors in accordance with the requirements of SafeWork NSW and relevant guidelines, including:
- (a) *Work Health and Safety Regulation 2017*;
  - (b) SafeWork NSW Code of Practice – How to Manage and Control Asbestos in the Workplace September 2016;
  - (c) SafeWork NSW Code of Practice – How to Safely Remove Asbestos September 2016; and
  - (d) *Protection of the Environment Operations (Waste) Regulation 2014*.

### Bushfire Protection

- B102. The Applicant must ensure the development complies with the:
- (a) relevant provisions of *Planning for Bushfire Protection 2019* ; and

- (b) recommendations within the *Bushfire Assessment, Access Logistics Park 884-928 Mamre Road, Kemps Creek*, dated 29 August 2022 (reference: 20140), prepared by Peterson Bushfire.

## **COMMUNITY ENGAGEMENT**

B103. The Applicant must consult with the community regularly throughout the development, including consultation with the nearby sensitive receivers identified in **Appendix 2**, relevant regulatory authorities, Registered Aboriginal Parties and other interested stakeholders.

## **WASTE MANAGEMENT**

### **Construction and Demolition Waste Management**

B104. Prior to the commencement of construction of the development, the Applicant must prepare a Construction and Demolition Waste Management Plan for the development. The Plan must form part of a CEMP in accordance with condition C2 and must:

- (a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations; and
- (b) be implemented for the duration of construction works.

B105. The Applicant must:

- (a) not commence construction until the Construction and Demolition Waste Management Plan has been prepared; and
- (b) implement the most recent version of the Construction and Demolition Waste Management Plan approved by the Planning Secretary.

### **Operational Waste Management**

B106. Prior to the commencement of operation of the development, the Applicant must prepare a Waste Management Plan. The Waste Management Plan must form part of the OEMP and be prepared in accordance with condition C2. The Plan must:

- (a) detail the type and quantity of waste to be generated during operation of the development;
- (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);
- (c) detail the materials to be reused or recycled, either on or off site; and
- (d) include the Management and Mitigation Measures included in Appendix 2.

B107. The Applicant must implement the most recent version of the Waste Management Plan for the duration of operation of the development.

### **Waste Storage and Processing**

B108. Prior to the commencement of construction of the warehouse, the Applicant must obtain agreement from Council for the design of the waste storage area for the warehouse.

B109. 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.

### **Statutory Requirements**

B110. 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 facility that may lawfully accept the waste.

### **Pests, Vermin and Priority Weed Management**

B111. The Applicant must:

- (a) implement suitable measures to manage pests, 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 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

### ENVIRONMENTAL MANAGEMENT

#### Management Plan Requirements

- C1. Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:
- (a) detailed baseline data;
  - (b) details of:
    - (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - (ii) any relevant limits or performance measures and criteria; and
    - (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;
  - (c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;
  - (d) a program to monitor and report on the:
    - (i) impacts and environmental performance of the development; and
    - (ii) 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;
  - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
  - (g) a protocol for managing and reporting any:
    - (i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);
    - (ii) complaint;
    - (iii) failure to comply with statutory requirements; and
  - (h) a protocol for periodic review of the plan.

**Note:** the Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans

### CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

- C2. The Applicant must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary.
- 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 B35);
  - (c) Dam Decommissioning Plan (see Condition B34);
  - (d) Construction Noise and Vibration Management Plan (see Condition B60);
  - (e) Construction Air Quality Management Plan (see Condition B83);
  - (f) Construction and Demolition Waste Management Plan (see Condition B106(d));
  - (g) Unexpected Finds Protocol (see Conditions B86 and B89);
  - (h) Community Consultation and Complaints Handling;
- C4. The Applicant must:
- (a) not commence earthworks, dam dewatering or construction of the development until the CEMP is approved by the Planning Secretary; and
  - (b) carry out earthworks or 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.

### OPERATIONAL ENVIRONMENTAL MANAGEMENT PLAN

- C5. The Applicant must prepare an Operational Environmental Management Plan (OEMP) in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary.
- C6. As part of the OEMP required under Condition C5 of this consent, the Applicant must include the following:
- (a) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;

- (b) describe the procedures that would be implemented to:
  - (i) keep the local community and relevant agencies informed about the operation and environmental performance of the development;
  - (ii) receive, handle, respond to, and record complaints;
  - (iii) resolve any disputes that may arise;
  - (iv) respond to any non-compliance;
  - (v) respond to emergencies; and
- (c) include the following environmental management plans:
  - (i) Stormwater Management Plan (see Condition B41);
  - (ii) Vegetation Management Plan (see Condition B51);
  - (iii) Operational Noise Management Plan (see Condition B69);
  - (iv) Landscape Management Plan (see Condition B76);
  - (v) Emergency Response Plan (see Condition B96);
  - (vi) Waste Management Plan (see Condition B105);

C7. The Applicant must:

- (a) not commence operation until the OEMP is approved by the Planning Secretary; and
- (b) operate the development in accordance with the OEMP approved by the Planning Secretary (and as revised and approved by the Planning Secretary from time to time).

## REVISION OF STRATEGIES, PLANS AND PROGRAMS

C8. Within three months of:

- (a) the submission of a Compliance Report under condition C14;
- (b) the submission of an incident report under condition C10;
- (c) the approval of any modification of the conditions of this consent; or
- (d) the issue of a direction of the Planning Secretary under condition A2(b) which requires a review,

the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing that a review is being carried out.

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.

**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.*

## REPORTING AND AUDITING

### Incident Notification, Reporting and Response

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 3.

### Non-Compliance Notification

C11. The Planning Secretary must be notified in writing to the Major Projects website within seven days after the Applicant becomes aware of any non-compliance.

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.

C13. A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

### Compliance Reporting

C14. Within three months after the first year of commencement of operation, and in the same month each subsequent year (or such other timing as agreed by the Planning Secretary), the Applicant must submit a Compliance Report to the Department 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:

- (a) identify any trends in the monitoring data over the life of the development;
- (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 7 days before this is done.

#### **Monitoring and Environmental Audits**

C16. Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or 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.

**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 on compliance with the consent or the environmental management or impact of the development.*

#### **ACCESS TO INFORMATION**

C17. At least 48 hours before the commencement of construction until the completion of all works under this consent, the Applicant must:

- (a) make the following information and documents (as they are obtained or approved) publicly available on its website:
  - (i) the documents referred to in condition A2 of this consent;
  - (ii) all current statutory approvals for the development;
  - (iii) all approved strategies, plans and programs required under the conditions of this consent;
  - (iv) the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;
  - (v) 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;
  - (vi) 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;
  - (vii) a summary of the current stage and progress of the development;
  - (viii) contact details to enquire about the development or to make a complaint;
  - (ix) a complaints register, updated monthly;
  - (x) the Compliance Report of the development;
  - (xi) audit reports prepared as part of any Independent Audit of the development and the Applicant’s response to the recommendations in any audit report;
  - (xii) any other matter required by the Planning Secretary; and
- (b) keep such information up to date, to the satisfaction of the Planning Secretary.

## APPENDIX 1 DEVELOPMENT LAYOUT PLANS

**Table 4: Schedule of Approved Plans**

| Drawing No                                                        | Title                                                                                      | Issue | Date       |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------|------------|
| <b>Architectural Plans prepared by Nettleton Tribe Architects</b> |                                                                                            |       |            |
| DA011                                                             | Lot 2 Site Plan                                                                            | P37   | 31/10/2023 |
| DA015                                                             | Lot 2 Office Floor Plans – Sheet 1                                                         | P20   | 31/10/2023 |
| DA016                                                             | Lot 2 Office Floor Plans – Sheet 2                                                         | P18   | 31/10/2023 |
| DA022                                                             | Lot 2 Building Elevations                                                                  | P26   | 31/10/2023 |
| DA025                                                             | Lot 2 Office Elevations                                                                    | P18   | 31/10/2023 |
| DA032                                                             | Lot 2 Building Sections                                                                    | P19   | 31/10/2023 |
| DA035                                                             | Lot 2 Office sections                                                                      | P17   | 31/10/2023 |
| DA041                                                             | Lot 2 Area Plans                                                                           | P24   | 31/10/2023 |
| DA003                                                             | Estate Masterplan – Stage 1                                                                | P28   | 21/08/2023 |
| DA004                                                             | Estate Masterplan – Stage 2                                                                | P39   | 31/10/2023 |
| DA005                                                             | Subdivision Masterplan – Stage 1                                                           | P19   | 21/08/2023 |
| DA006                                                             | Subdivision Masterplan – Stage 2                                                           | P25   | 31/10/2023 |
| DA044                                                             | Signage Details, Typical Colours and Materials Schedule                                    | P14   | 31/10/2023 |
| <b>Civil Drawings prepared by Costin Roe Consulting Pty Ltd</b>   |                                                                                            |       |            |
| C014021.00-SSDA300                                                | Bulk Earthworks Plan and Cut and Fill Plan                                                 | R     | 07/11/2023 |
| C014021.00-SSDA400                                                | Stormwater Drainage Masterplan                                                             | Q     | 07/11/2023 |
| C014021.00-SSDA405                                                | Water Sensitive Urban Design Management Plan                                               | F     | 07/11/2023 |
| C014021.00-SSDA500                                                | Roadworks Plan                                                                             | O     | 07/11/2023 |
| C014021.00-SKC230831                                              | Proposed Roundabout / Freight Network Interface Revised Roundabout PBS Level 2b Road Train | A     | 06/10/2023 |
| CO14021.00-SK-231020                                              | Option B, Existing Driveway Interface with Proposed Road                                   | A     | 20/10/2022 |
| <b>Landscape Plans prepared by Geoscapes Landscape Architects</b> |                                                                                            |       |            |
| MP-01                                                             | Estate and Lot 2 Masterplan                                                                | P     | 30/10/2023 |
| LDA-01                                                            | Overall Landscape Plan                                                                     | U     | 30/10/2023 |

| Drawing No                                                                             | Title                                                                | Issue | Date       |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------|------------|
| LDA-01A                                                                                | Landscape Canopy and Permeability Plan (*excludes roundabout design) | Z     | 01/09/2023 |
| <b>Left In / Left Out Deceleration and Acceleration Lane plan prepared by MU Group</b> |                                                                      |       |            |
| 2021_19_SD_0001_SK00014                                                                | LILO Strategic Design - Stage 1 – Deceleration Lane                  | B     | 28/03/2023 |
| 2021_19_SD_0001_SK00017                                                                | Left Turn Treatments Comparison - Stage 2 – Acceleration Lane        | A     | 28/03/2023 |





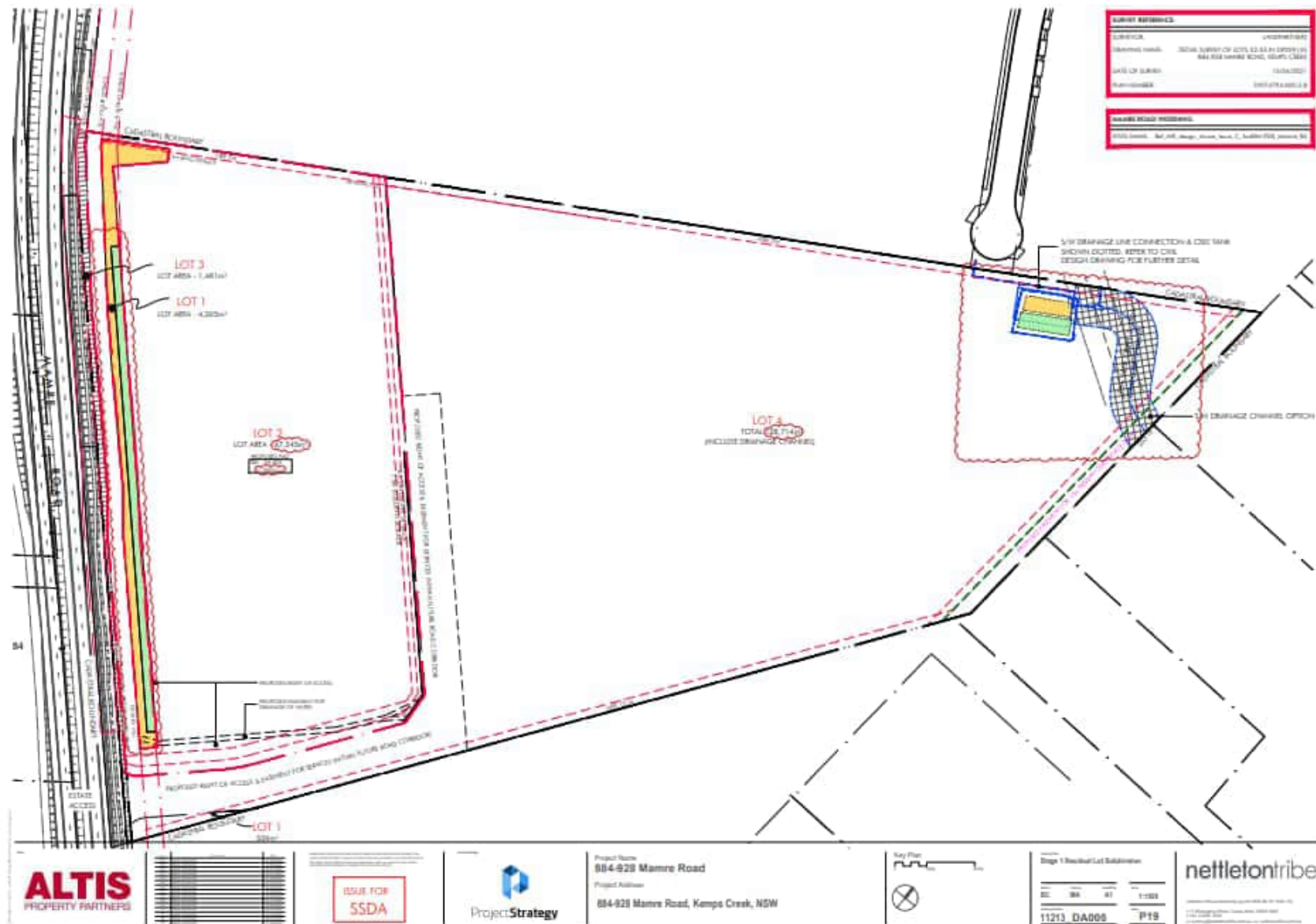
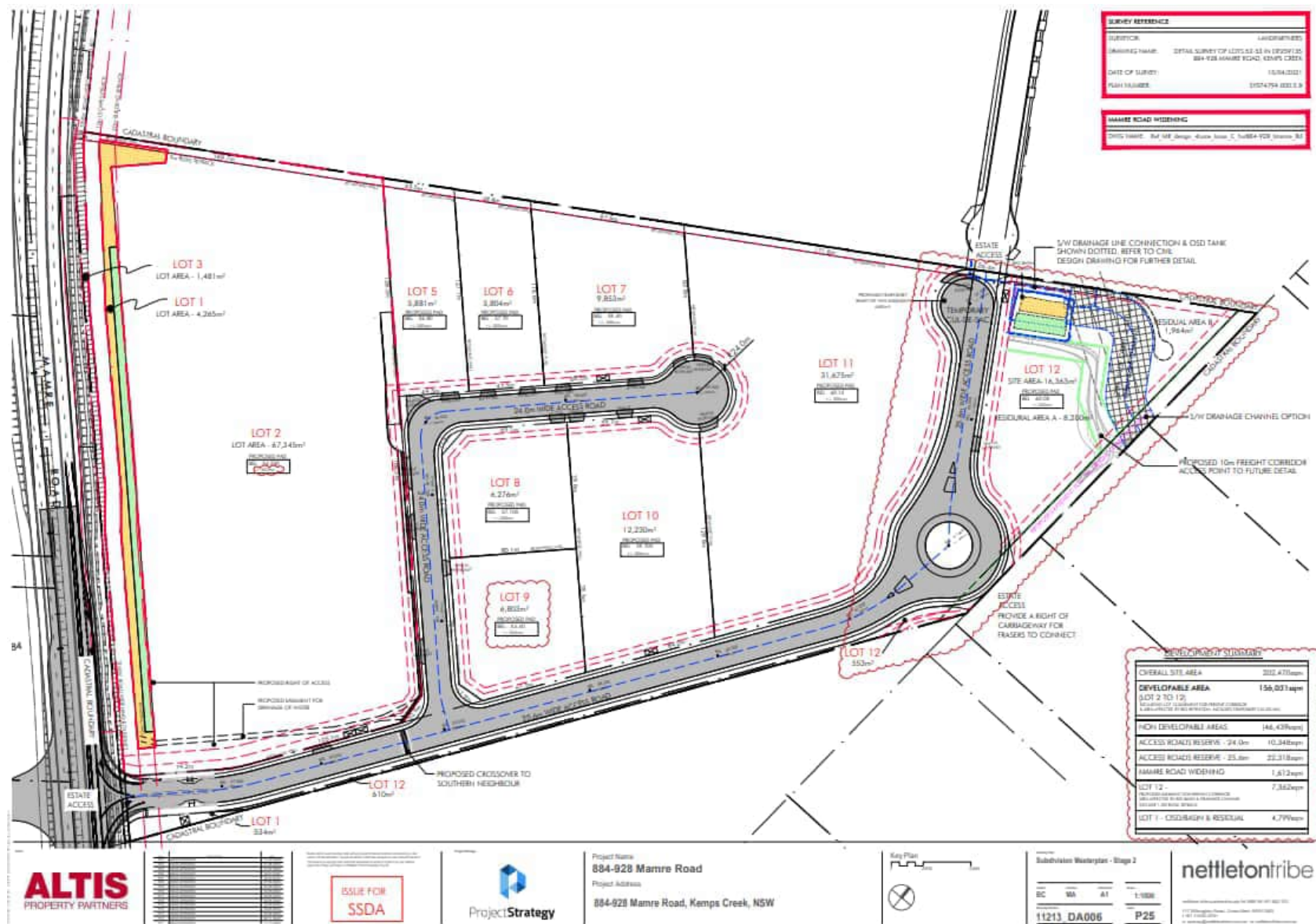


Figure 2: Stage 1 Subdivision Plan







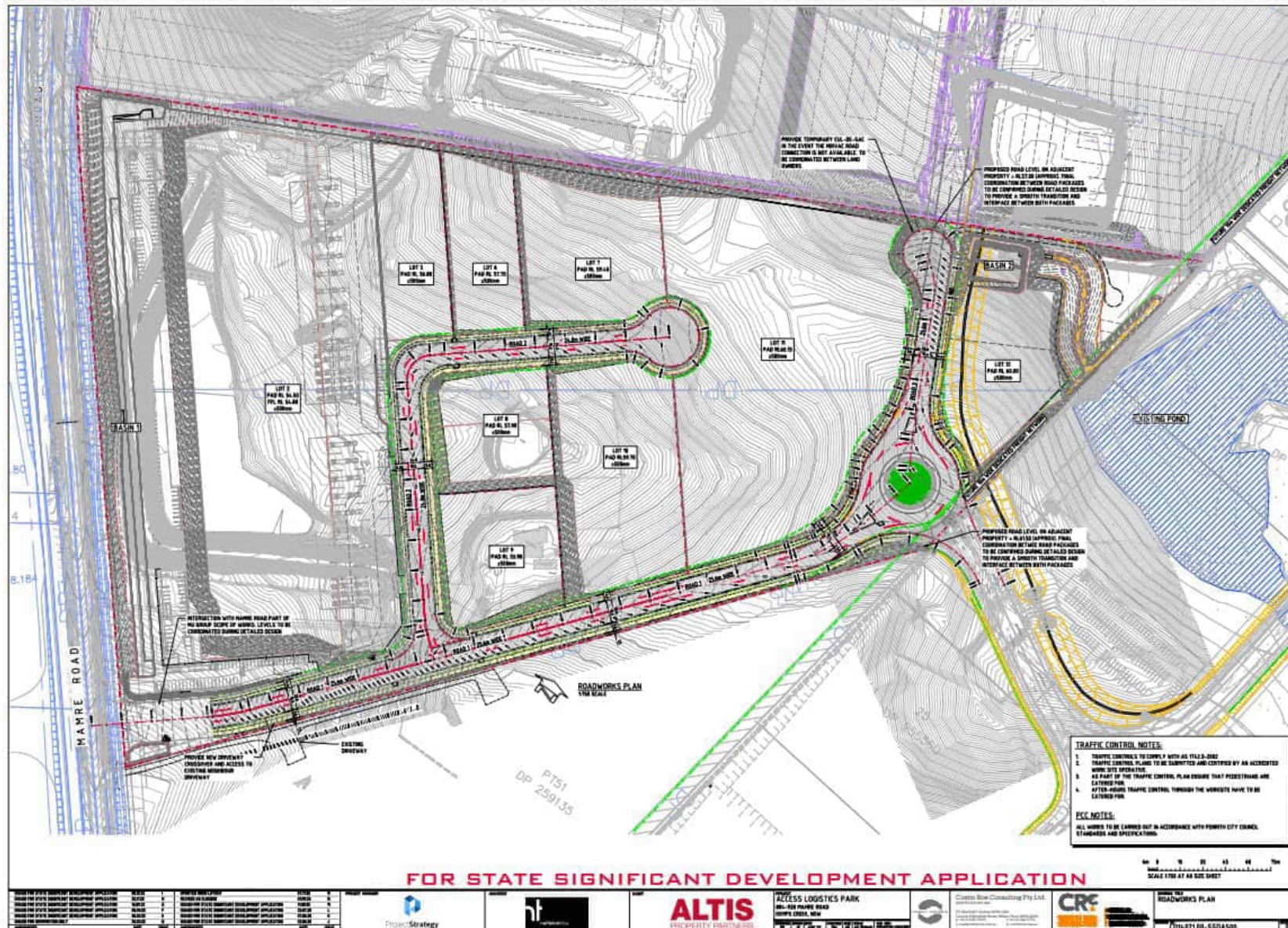


Figure 4: Roadworks plan



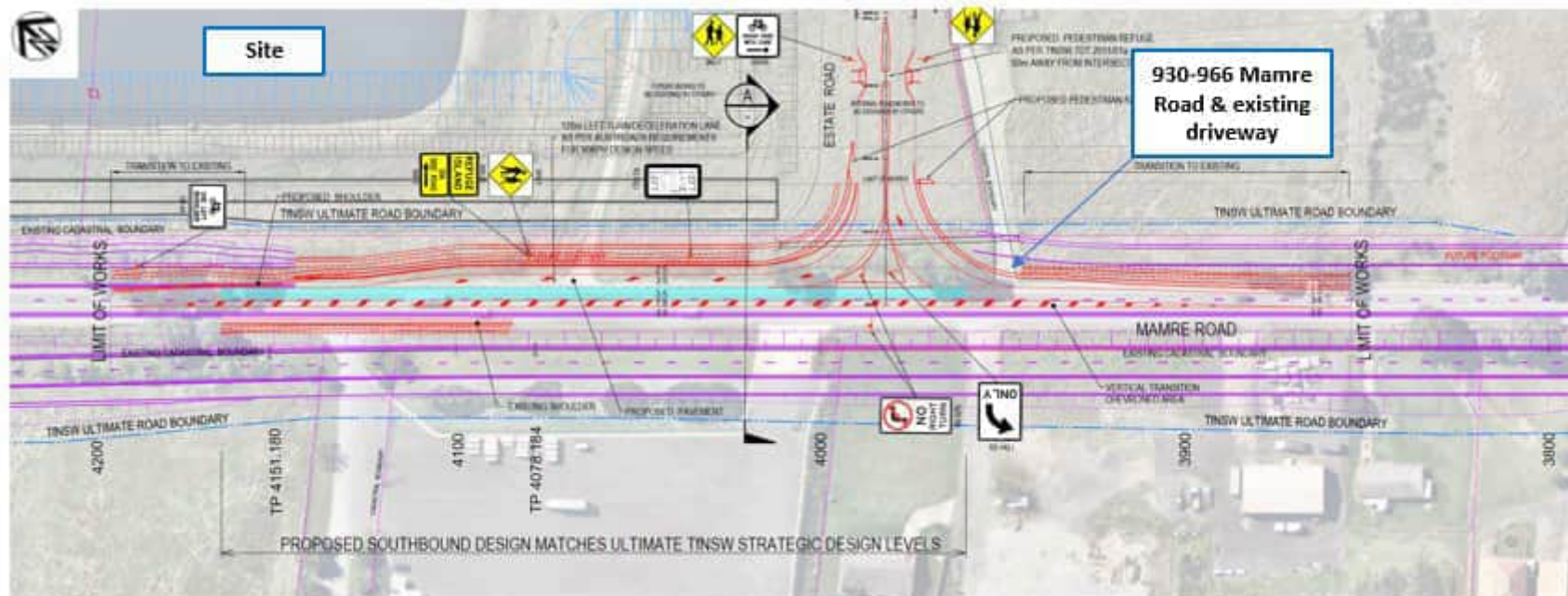


Figure 5: Stage 1 of the Left-In/Left-Out Intersection at Mamre Road

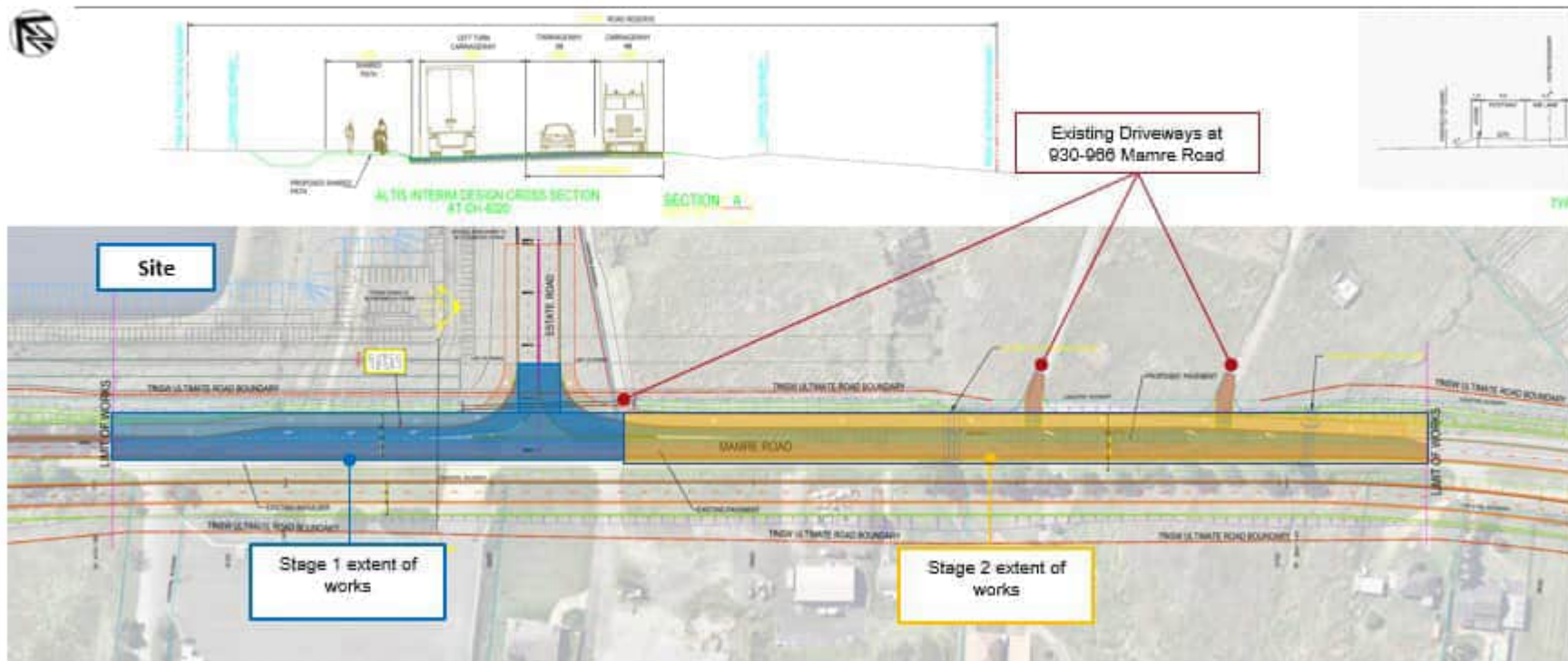


Figure 6: Stage 1 and 2 LILO



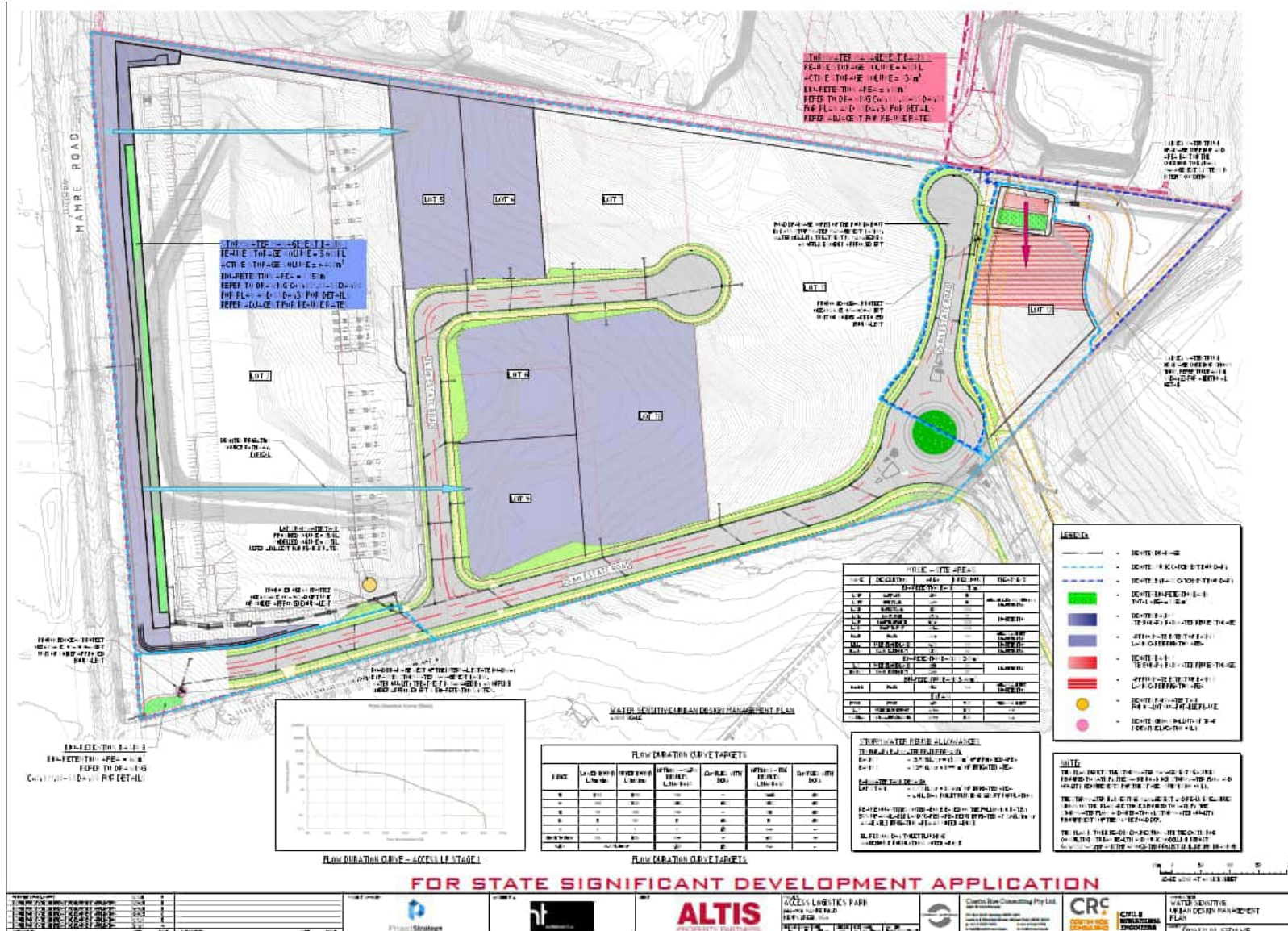


Figure 7: Stormwater Management System & Irrigation Areas (shaded blue and red)





## APPENDIX 2 NOISE SENSITIVE RECIVERS

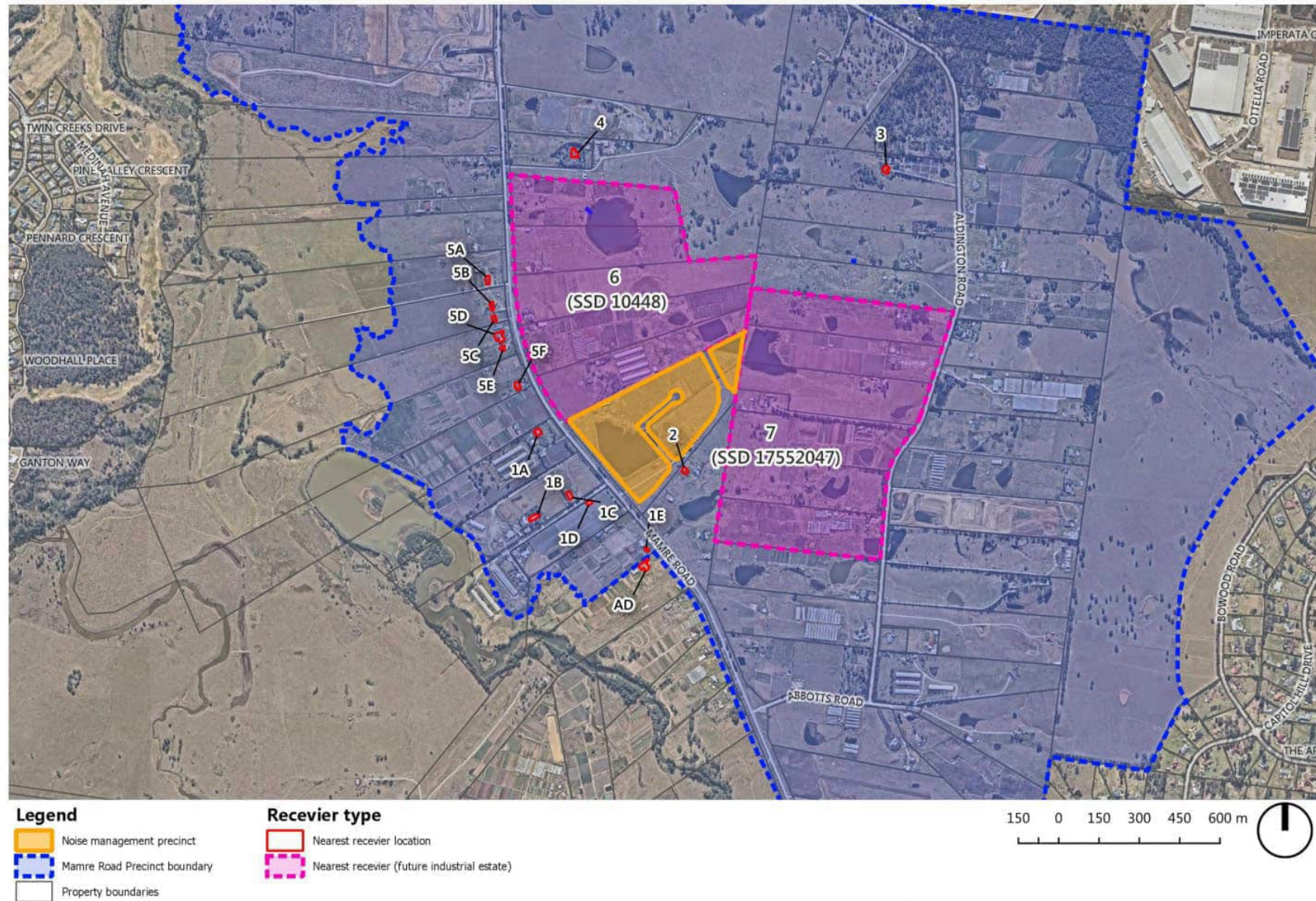


Figure 9: Nearby Noise Sensitive Receivers



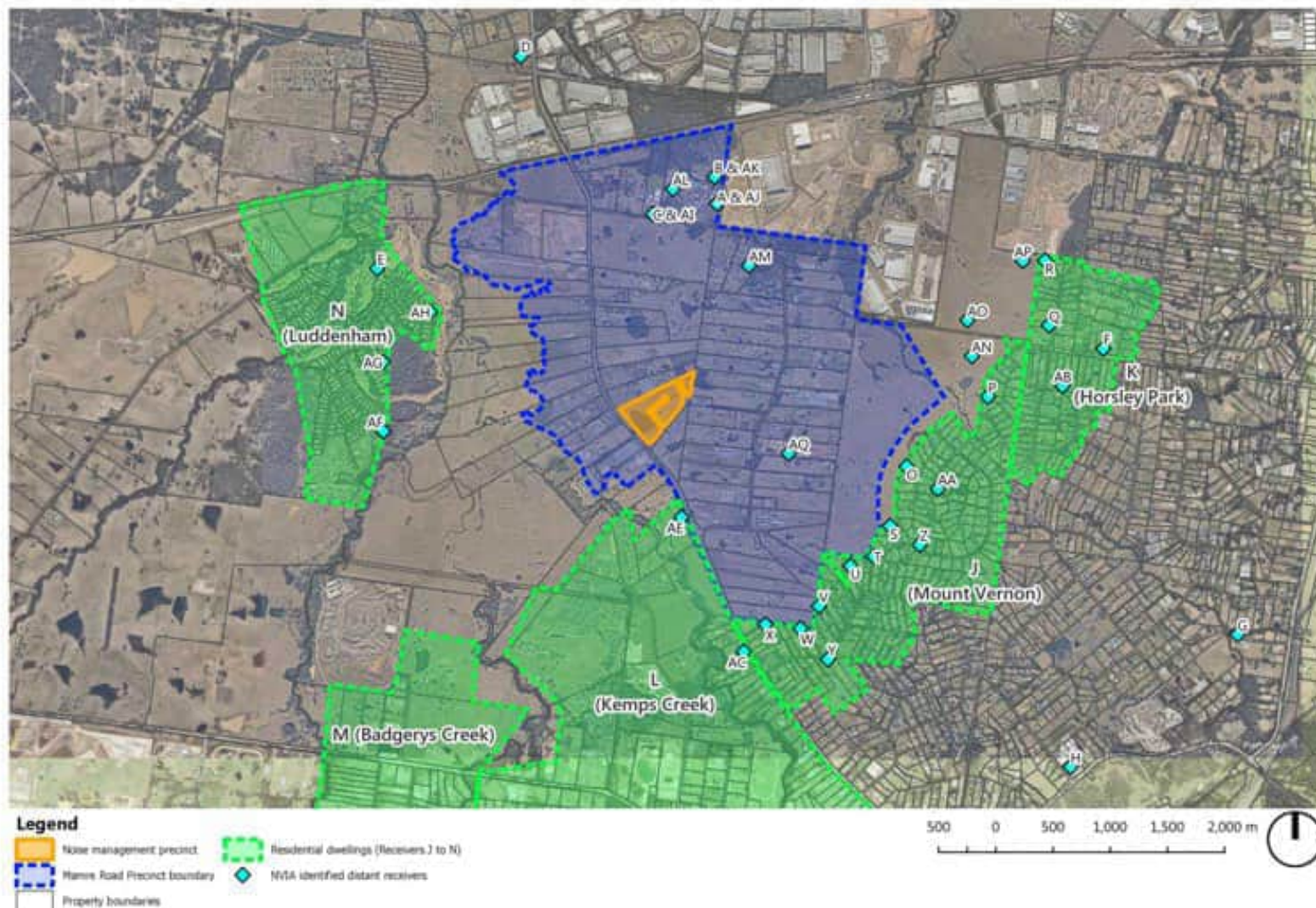


Figure 10: Distant Noise Sensitive Receivers

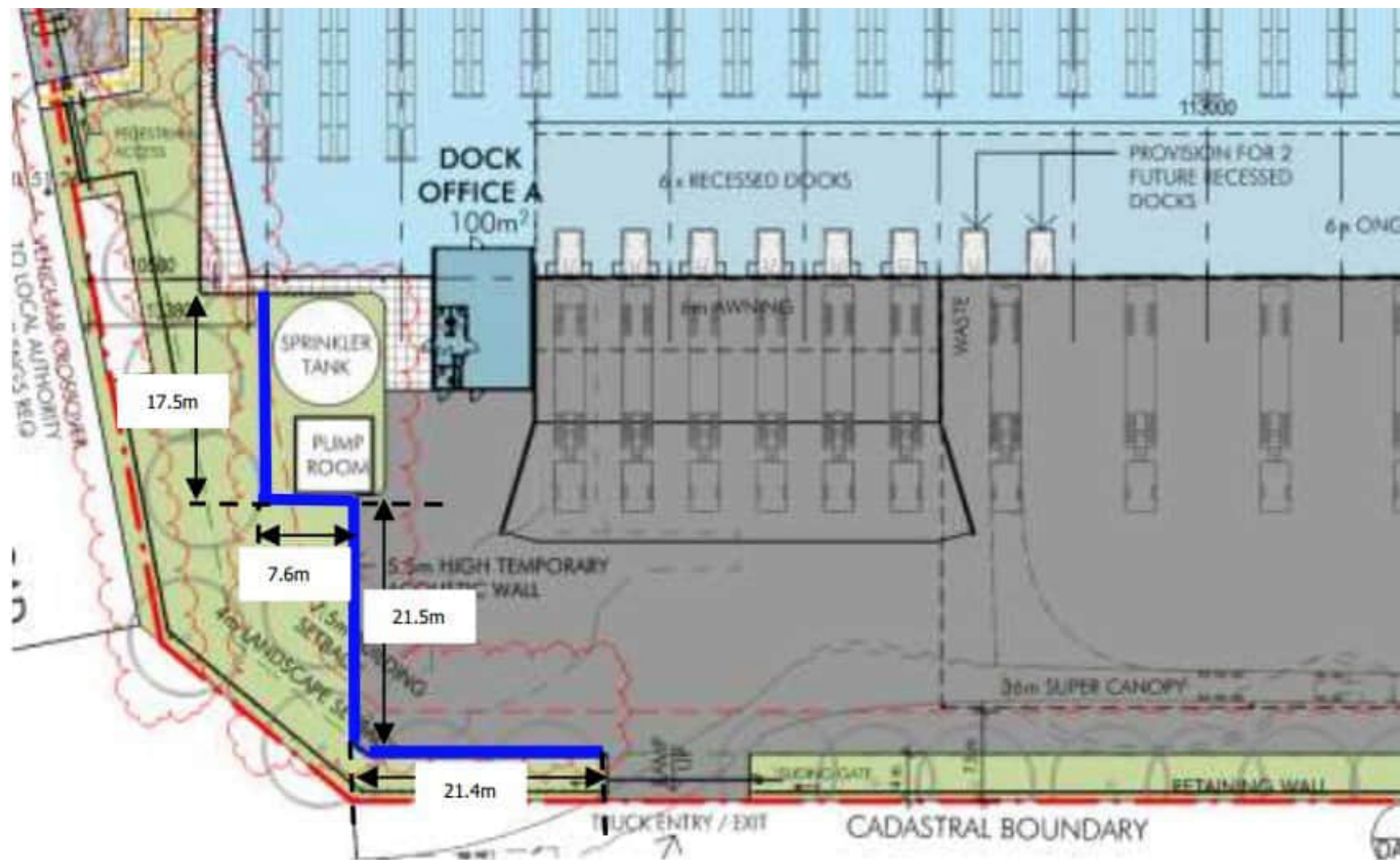


Figure 11: Location of proposed acoustic barrier (5.5 m high measured from pad level)

## **APPENDIX 3     APPLICANT'S MANAGEMENT AND MITIGATION MEASURES**

### **Commitment to Minimise Harm to the Environment**

1. Altis will commit to implement all reasonable and feasible measures, to prevent and/or minimise any harm to the environment, that may result from the construction or operation of the proposed development.

### **Terms of Approval**

2. Altis will carry out the project generally in accordance with the:
  - (a) Environmental Impact Statement;
  - (b) RTS Report;
  - (c) Drawings;
  - (d) Management and Mitigation Measures;
  - (e) Any Conditions of Approval.

### **Occupation Certificate**

3. Altis will ensure that Occupation Certificates are obtained prior to the occupation of the facilities.
4. If there is any inconsistency between the above, the Conditions of Approval shall prevail to the extent of the inconsistency.
5. Altis will ensure compliance with the requirement(s) of the Secretary of the DPIE arising from the assessment of:
  - (a) Any reports, plans, programs, strategies or correspondence that are submitted in relation to this Approval; and
  - (b) The implementation of any recommended actions or measures contained in reports, plans, programs, strategies or correspondence submitted by the Project Team as part of the application for Approval.

### **Structural Adequacy**

6. Altis will ensure that all new buildings and structures on the Site are constructed in accordance with the relevant requirements of the NCC.

### **Operation of Plant and Equipment**

7. Altis will ensure that all plant and equipment used on-site, is maintained and operated in proper and efficient manner, and in accordance with relevant Australian Standards.

### **Construction Environmental Management Plan**

8. Prior to the commencement of construction, the appointed builder or infrastructure contractor as will prepare a Construction Environmental Management Plan (CEMP) that addresses the following:
  - (a) Air Quality;
  - (b) Noise;
  - (c) Waste Classification;
  - (d) Erosion and Sediment Control;
  - (e) Materials Management Plan; and
  - (f) Community Consultation and Complaints Handling.

### **Monitoring of State of Roadways**

9. Altis will monitor the state of roadways leading to and from the Subject Site, during construction, and will take all necessary steps to clean up any adversely impacted road pavements as directed.

## **Waste Receipts**

10. Altis will ensure that a permanent record of receipts, for the removal of both liquid and solid waste from the Subject Site, be kept and maintained up to date at all times. Such records would be made available to authorised person upon request.

## **Complaints Handling**

11. Altis will prepare and implement an Operational Complaints Handling Protocol for the development, prior to the commencement of operations.

## **Consultation**

12. Altis will prepare and implement a Community Consultation Strategy (CCS), to be implemented throughout the construction and operational phases of the project.

## **SPECIFIC ENVIRONMENTAL COMMITMENTS**

### **Air Quality**

13. Prior to commencement of works, Altis will develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the relevant regulatory bodies.
14. Prior to commencement of works, a construction air quality management plan will be developed (post approval) in line with the Air Quality and Odour Impact Assessment.
15. Altis will implement an emissions testing program in accordance with the requirements of an Environmental Protection Licence (EPL).
16. Altis will develop an Operational Environmental Management Plan (OEMP) to address air emissions (including odour).
17. Altis has an Environmental and Sustainability Policy ESN-001P that outlines commitment to Environmental compliance. Altis will accept and implement the recommendations as outlined in the Air Quality and Odour Impact Assessment for monitoring of performance.

### **Noise and Vibration**

18. During the construction phase, Altis will ensure that all recommendations of the Construction Noise and Vibration Management Plan are adopted and implemented.

### **Traffic and Transport**

19. Altis will ensure that a Construction Traffic Management Plan (CTMP) is prepared and submitted to DPE. This plan will:
  - a. be submitted to the Secretary for approval prior to the commencement of construction;
  - b. describe the traffic volumes and movements to occur during construction;
  - c. detail proposed measures to minimise the impact of construction traffic on the surrounding network, including driver behaviour and vehicle maintenance; and,
  - d. detail the procedures to be implemented in the event of a complaint from the public regarding construction traffic.
20. The CTMP will be implemented throughout the construction cycle.
21. Altis will prepare a Workplace Travel Plan.

### **Aboriginal Cultural Heritage**

22. All contractors undertaking earthworks on site will be briefed on the protection of Aboriginal heritage objects under the *National Parks and Wildlife Act 1974* and the penalties for damage to these items.

23. If unforeseen Aboriginal objects are uncovered during construction the unexpected finds protocol will be followed. Work will cease in the area, and the NSW Office of Environment and Heritage will be informed.

## **Waste Management**

24. During construction, Altis will implement the measures contained within the prepared Waste Management Plan. These are to be incorporated into the CEMP to be issued prior to commencement of construction.
25. Altis will ensure that all waste generated on-site during construction and operation is classified in accordance with the *Waste Classification Guidelines: Part 1 Classifying Waste* and disposed of at facility that may lawfully accept the waste.

## **Dangerous Goods**

26. Altis will ensure the following documentation is prepared in accordance with the WHS Regulation 2017:
- A DGs Register, indicating the type of chemical, any notations that may be required from the risk assessment and the Safety Data Sheet for the chemical.
  - A Placard Schedule.
  - A Manifest.
  - A DG Risk Assessment of the storage and handling areas.
  - An Emergency Response Plan (ERP) and Emergency Services Information Package (ESIP).
  - A Hazardous Area Classification (HAC) and Hazardous Area Verification Dossier (HAVD).

## **Bushfire**

27. Public road design and construction is to comply with Table 5.3b of PBP. An exemption is the interim single access road may be longer than 200 m.
28. Altis will ensure that the Site is to be maintained to achieve the performance requirement of an Inner Protection Area (IPA) as described by Appendix A4.1.1 of PBP. The following landscaping specifications have been designed to achieve an IPA standard at this Site:
- a. Trees:
    - i. Trees at maturity should not touch or overhang the building;
    - ii. Tree canopies should not be connected when at maturity. Gaps between crowns or groups of crowns are to be maintained at distances of 2 to 5m.
  - b. Shrubs:
    - i. Ensure gaps in the vegetation, such as between garden beds, to prevent the spread of fire towards the building;
    - ii. Clumps of shrubs should be separated from glazing and doors by a distance of at least twice the height of the vegetation.
  - c. Groundcovers:
    - i. Grass should be kept mown (as a guide grass should be kept to no more than 100mm in height);
    - ii. Leaves and vegetation debris should be regularly removed;
    - iii. Organic mulch is not to be used within 1 m of a building.
29. The proposed public roads require fire hydrants to be installed to comply with *AS 2419.1 – 2005 Fire Hydrant Installations - System Design, Installation and Commissioning* (AS 2419).
30. The warehouse will require fire hydrants to be installed to comply with *AS 2419.1 – 2005 Fire Hydrant Installations - System Design, Installation and Commissioning* (AS 2419) so that all sides of the building are within 70 m of a hydrant by lay of the hose (or 90 m with a tanker parked in-line maximum 20 m from the hydrant).
31. Any gas services are to be installed and maintained in accordance with *AS/NZS 1596- 2014 The storage and handling of LP gas*.
32. Hazardous or combustible materials are not to be stored externally.



## APPENDIX 4 EROSION AND SEDIMENT CONTROL – PERFORMANCE CRITERIA

The erosion and sediment control plan prepared in accordance with B35 must include measures to:

1. Minimise erosion
  - (a) minimise the duration of soil exposure by undertaking land clearing and stabilisation according to the 'Blue Book' Section 7.1.2 and Table 7.1;
  - (b) effectively stabilise all site surfaces using methods that will continue to achieve effective stabilisation in the medium to long term. An effectively stabilised surface is defined as one that does not, or is not likely to result in visible evidence of soil loss caused by sheet, rill or gully erosion or lead to sedimentation, or lead to water contamination;
2. Manage concentrated stormwater flows
  - (a) implement drainage and erosion control measures (including contingency measures), prior to rainfall, which prevent or minimise rill erosion and gully erosion;
  - (b) ensure clean stormwater is diverted/managed around or through the site without increasing the concentration of total suspended solids or other contaminants in the flow and without causing erosion (on-site or off-site). If it is not feasible to divert all areas discharging clean stormwater around or through the site, the clean stormwater runoff is managed in the same manner as contaminated stormwater runoff and ensures that sediment basins are sized to accommodate the additional volume of runoff;
  - (c) prior to each rainfall event ensure concentrated stormwater flow paths are provided with capacity for the 10% AEP critical duration event and do not cause water contamination, rill or gully erosion, sedimentation or damage to structures or property for at least that event frequency;
3. Minimise sediment released from the site
  - (a) all site sub-catchments greater than 2,500m<sup>2</sup> in area, are to be provided with sediment controls which are designed, implemented and maintained to a standard which would achieve at least 80% of the average annual runoff volume of the contributing catchment treated (i.e. 80% hydrological effectiveness) to 50mg/L Total Suspended Solids (TSS) or less, and pH in the range 6.5–8.5. Where this is proposed to be achieved through the use of sediment basins, the following applies:
    - (i) each basin is sized and operated in accordance with either a Type-A or Type-B sediment basin as documented in IECA BPESC Appendix B (June 2018), based on the contributing catchment area including undisturbed catchments which cannot be diverted;
    - (ii) each basin is to be provided with an automated system of flocculant dosing and a suitable supply of flocculant/coagulant, with the type of flocculant/coagulant determined based on jar testing and reference to the Chemical Coagulants and Flocculants Fact Sheet (IECA BPESC 2018). The proposed coagulant/flocculant must have regard to the downstream receiving environment and water quality;
    - (iii) each basin must have suitable access to allow for maintenance immediately following a rainfall event, including for sediment removal, dewatering and water treatment;
    - (iv) markers are provided within each basin indicating the maximum sediment storage level and any additional water storage capacity for water reuse;
    - (v) during discharge from the primary outlet system, the concentration of total suspended solids (TSS) discharged does not exceed 50mg/L and that pH is within the range of 6.5–8.5. These discharge standards apply equally to any intentional release of any water captured or stored within the site;
    - (vi) hydraulic structures such as inlets, outlets, spillways must be provided with the capacity, and be structurally sound, for the design events as specified in IECA BPESC Appendix B (June 2018);
    - (vii) the sediment basin is to be constructed and operational before any disturbance occurs in the catchment upslope of the basin;
    - (viii) accumulated sediment from basins and other controls is to be removed and disposed of appropriately without causing water contamination;
  - (b) for site sub-catchments less than 2,500m<sup>2</sup> in area and where it is not feasible to divert runoff from these small disturbed areas of the site to a sediment basin, compensatory erosion and sediment controls are implemented and maintained prior to rainfall to ensure that erosion of those areas is minimised and sediment controls are provided in accordance with the 'Blue Book'.
4. Manage works within waterways
  - (a) work within waterways and drainage lines with catchments exceeding 15ha is to be:
    - (i) scheduled to occur between June–October, where possible;
    - (ii) rescheduled if rainfall is forecast, where possible;
    - (iii) promptly rehabilitated conforming to the natural channel form, substrates and riparian vegetation as far as possible;

- (iv) provided with flow diversion works and temporary bank and channel stabilisation works such that the works are stable during at least the 39% AEP stream flow event;
- (b) temporary vehicular crossings of waterways are to be designed and constructed to convey flows for the 63% AEP and remain stable for all rainfall events up to the 10% AEP event of critical duration;
- (c) erosion and sediment controls are not to be constructed within the riparian buffer zone, unless it is not feasible to site them elsewhere, and then only within cleared areas.

5. Manage other contaminants

- (a) any release of captured or contained stormwater or groundwater from the site or to stormwater drainage or waterways within the site (for example pumping or releasing water from trenches, excavations or water impoundments) is to achieve a concentration of total suspended solids (TSS) which does not exceed 50mg/L and pH within the range of 6.5-8.5;
- (b) there are to be no visible oils, sheens, anthropogenic litter or discolouration in any release from the site or to stormwater drainage or waterways within the site. Facilities are to be provided for litter collection and designated concrete washout areas to assist in meeting this requirement. Storage areas for site materials and waste are to be kept covered;
- (c) erosion and sediment controls are to be constructed with UV stabilised materials that will not become a pollutant source and are to be promptly removed once the contributing catchment has been permanently stabilised.



## **APPENDIX 5 INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS**

### **WRITTEN INCIDENT NOTIFICATION REQUIREMENTS**

1. A written incident notification addressing the requirements set out below must be submitted to the Planning Secretary via the Major Projects website within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant fails to give the notification required under condition C10 or, having given such notification, subsequently forms the view that an incident has not occurred.
2. Written notification of an incident must:
  - a. identify the development and application number;
  - b. provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
  - c. identify how the incident was detected;
  - d. identify when the applicant became aware of the incident;
  - e. identify any actual or potential non-compliance with conditions of consent;
  - f. describe what immediate steps were taken in relation to the incident;
  - g. identify further action(s) that will be taken in relation to the incident; and
  - h. identify a project contact for further communication regarding the incident.

### **INCIDENT REPORT REQUIREMENTS**

3. Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, the Applicant must provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.
4. The Incident Report must include:
  - a. a summary of the incident;
  - b. outcomes of an incident investigation, including identification of the cause of the incident;
  - c. details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
  - d. details of any communication with other stakeholders regarding the incident.



**Appendix B      Relevant Consent  
Conditions- SSD  
17647189**

## Relevant Consent Conditions

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Where addressed in CEMP |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>PART A ADMINISTRATIVE CONDITIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
| 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 earthworks, construction and operation of the development, and any rehabilitation required under this consent.                                                                                                                                                                                                                                                                                                                                                                                              | Refer to Section 6      |
| A2. The development may only be carried out:<br>(a) in compliance with the conditions of this consent;<br>(b) in accordance with all written directions of the Planning Secretary;<br>(c) in accordance with the EIS, Response to Submissions and Additional Information; (d) in accordance with the Development Layout in Appendix 1; and<br>(e) in accordance with the management and mitigation measures in Appendix 3.                                                                                                                                                                                                                                                                                                                                                                        | Refer to Section 3.2.1  |
| A9. The date of commencement of each of the following phases of the development must be notified to the Department in writing, at least one month before that date, or as otherwise agreed with the Planning Secretary:<br>(a) earthworks;<br>(b) construction; and<br>(c) operation;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Noted                   |
| A10. If the earthworks, construction, or operation of the development is to be staged, the Department 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                   |
| A11. Where conditions of this consent require consultation with an identified party, the Applicant must:<br>(a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and<br>(b) provide details of the consultation undertaken including:<br>(i) the outcome of that consultation, matters resolved and unresolved; and<br>(ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.                                                                                                                                                                                                                                                     | Section 1.7             |
| A12. With the approval of the Planning Secretary, the Applicant may:<br>(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);<br>(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<br>(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 | Sub-Management Plans    |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Where addressed in CEMP             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |
| A20. 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Refer to Section 3.3                |
| A23. All plant and equipment used on site, or to monitor the performance of the development, must be:<br>(a) maintained in a proper and efficient condition; and<br>(b) operated in a proper and efficient manner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Refer to Section 3.3 and Appendix O |
| A24. Prior to the issue of any Subdivision Certificate (except for the Stage 1 subdivision as shown on <b>Figure 2</b> in <b>Appendix 1</b> ), detailed work-as-executed drawings shall be prepared and signed by a Registered Surveyor, which show the finished surface levels of the access road, internal roads, drainage, street trees and any areas of fill, carried out under this consent. The work-as-executed drawing must be submitted to the Certifier, Council and Sydney Water prior to the issue of a Subdivision Certificate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Refer to Appendix 1 of SSD-17647189 |
| A36. The Applicant must engage an Environmental Representative (ER) to oversee earthworks, subdivision and construction of the development. Unless otherwise agreed to by the Planning Secretary, the earthworks and 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:<br>(a) be a suitably qualified and experienced person who was not involved in the preparation of the EIS, RtS and any additional information for the development and is independent from the design and construction personnel for the development;<br>(b) receive and respond to communication from the Planning Secretary in relation to the environmental performance of the development;<br>(c) consider and inform the Planning Secretary on matters specified in the terms of this consent;<br>(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;<br>(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:<br>(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<br>(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);<br>(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;<br>(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, | Refer to Section 3.1 and Table 7    |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Where addressed in CEMP                            |
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| <p>briefings, and site visits;</p> <p>(h) as may be requested by the Planning Secretary, assist the Department in the resolution of community complaints;</p> <p>(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;</p> <p>(j) attend the Mamre Road Precinct Working Group (see Condition A39) in a consultative role in relation to the environmental performance of the development;</p> <p>(k) review the monthly audits of the erosion and sediment controls undertaken by the CPESC in accordance with Condition B36; and</p> <p>(l) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report providing the information set out in the Environmental Representative Protocol under the heading 'Environmental Representative Monthly Reports'. The Environmental Representative Monthly Report must be submitted within seven calendar days following the end of each month for the duration of the ER's engagement for the development, or as otherwise agreed with the Planning Secretary.</p>                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |
| <p>A37. 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 A36 (including preparation of the ER monthly report), as well as:</p> <p>(a) the complaints register (to be provided on a daily basis); and</p> <p>(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).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Noted                                              |
| <p>A39. Within three months of the commencement of earthworks for the development and until all components of the development are constructed and operational, the Applicant must 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:</p> <p>(a) comprise at least one representative of the Applicant, the Applicant's ER, and relevant consent holders in the MRP;</p> <p>(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;</p> <p>(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;</p> <p>(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;</p> <p>(e) review community concerns or complaints with respect to environmental management;</p> <p>(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</p> <p>(g) provide the Planning Secretary with an update and strategies, if a review</p> | Refer to Table 3, under Section 1.7 (Consultation) |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Where addressed in CEMP                          |
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| under subclause 39(d) and 39(e) identifies additional measures and processes are required to be implemented by the working group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |
| <b>Appendix 3 – Commitment to Minimise Harm to the Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |
| Altis will commit to implement all reasonable and feasible measures, to prevent and/or minimise any harm to the environment, that may result from the construction or operation of the proposed development.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Refer to Table 17 under Section 4                |
| <b>Appendix 3 – Terms of Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                  |
| 2. Altis will carry out the project generally in accordance with the:<br>(a) Environmental Impact Statement;<br>(b) RTS Report;<br>(c) Drawings;<br>(d) Management and Mitigation Measures;<br>(e) Any Conditions of Approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Noted                                            |
| <b>Appendix 3 – Structural Adequacy</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |
| Altis will ensure that all new buildings and structures on the Site are constructed in accordance with the relevant requirements of the NCC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Noted                                            |
| <b>PART B – SPECIFIC ENVIRONMENT CONDITIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |
| <b>TRAFFIC AND ACCESS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |
| <b>Construction Traffic Management Plan</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |
| <p>B1. Prior to the commencement of earthworks for 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:</p> <ul style="list-style-type: none"> <li>a) be prepared by a suitably qualified and experienced person(s);</li> <li>b) be prepared in consultation with Council and TfNSW;</li> <li>c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction; <ul style="list-style-type: none"> <li>i. ensure access to the site and road safety and network efficiency is maintained, and</li> <li>ii. manage cumulative construction traffic from other concurrent construction works within the Mamre Road Precinct.</li> </ul> </li> <li>d) detail heavy vehicle routes, access, and parking arrangements;</li> <li>e) include a Driver Code of Conduct to: <ul style="list-style-type: none"> <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;</li> </ul> </li> <li>f) include a program to monitor the effectiveness of these measures; and</li> <li>g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.</li> </ul> | Refer to Section 1.7 Table 3 and Appendix C CTMP |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Where addressed in CEMP                  |
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| <p>B2. The Applicant must:</p> <ul style="list-style-type: none"> <li>a) not commence earthworks until the Construction Traffic Management Plan required by condition B1 is approved by the Planning Secretary; and</li> <li>b) implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary for the duration of earthworks and construction.</li> </ul>                                                                                                                                                                                                                                                                                                                                                 | Refer to Appendix C CTMP                 |
| <b>Mamre Road / Access Road 1 Intersection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| B6. The Applicant must ensure road access to neighboring properties at 930 – 966 Mamre Road is maintained for the duration of construction and operation, or alternative access is provided as agreed with the relevant landowner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to Appendix C CTMP                 |
| B7. The Applicant must not construct any infrastructure (e.g. batter, retaining wall, and drainage basins) required to support the development within the Mamre Road reserve or on land that is zoned SP2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Noted                                    |
| B9. Prior to the commencement of earthworks, the Applicant must obtain a Road Occupancy Licence (ROL) from Transport Management Centre (TMC) for any works that may impact on traffic flows on Mamre Road during construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Noted                                    |
| B10. Prior to the issue of any Construction Certificate for the development, the Applicant must submit copies of any documentation in relation to road and intersection works to Council for its records.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CEMP Section 3.2.3                       |
| B11. All TfNSW costs associated with review of plans, designs and legal must be borne by the Applicant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Noted                                    |
| <b>Access to 930-966 Mamre Road, Kemps Creek</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |
| <p>B12. Prior to the construction of the Stage 1 intersection works (see Figure 5 in Appendix 1), the Applicant must:</p> <ul style="list-style-type: none"> <li>a) give written notice to the landowner of 930-966 Mamre Road of the timing for closing the existing driveway, no later than 28 days prior to closure of the driveway to Mamre Road;</li> <li>b) close the existing driveway from 930-966 Mamre Road located within the Stage 1 intersection works area; and</li> <li>c) ensure that the new access driveway to 930-966 Mamre Road (shown in Costin Roe Consulting Drawing, Option B, Reference: CO14021.00-SK-231020, Rev A and dated 20/10/2022) is constructed and operational prior to the closure of the existing driveway.</li> </ul> | Refer to Appendix C CTMP                 |
| B13. The Applicant must provide written evidence to the satisfaction of the Planning Secretary and TfNSW demonstrating Condition B12 has been satisfied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Refer to Appendix L Consultation Records |
| <b>Internal Access Roads</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |
| <p>B14. Prior to the commencement of construction works (excluding earthworks), the Applicant must:</p> <ul style="list-style-type: none"> <li>a) prepare a detailed design of the access roads (Access Roads 1, 2 and 3) including the roundabout shown in Figure 4 in Appendix 1 in accordance with the design requirements in the MRP DCP to the satisfaction of Council; and</li> <li>b) consult with Council concerning the processes for dedication of the lands for the access roads including the roundabout shown in Figure 4 in Appendix 1.</li> </ul>                                                                                                                                                                                             | Refer to Appendix C CTMP                 |
| B17. Prior to the commencement of construction, the Applicant must obtain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Refer to Appendix C CTMP                 |



| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Where addressed in CEMP  |
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| approval from Council for a concept Signage and Line Marking Plan for Access Roads 1, 2 and 3 to Council's Traffic Committee for endorsement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
| <b>Connection of Access Road 3 to Aspect Industrial Estate</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |
| <p>B18. Within six months of the date of this consent, the Applicant must prepare and submit the following plans to facilitate the construction and delivery of the connection of Access Road 3 to Berriwerri Drive in the Aspect Industrial Estate (AIE). The plans must be prepared in consultation with Council and the landowner of the AIE to the satisfaction of the Planning Secretary and include:</p> <p>a) a Staging Plan for the connection, including:</p> <ul style="list-style-type: none"> <li>i. details of the scope of works to be undertaken on the site and the adjoining AIE (Mirvac) site (see Figure 4, Appendix 1,);</li> <li>ii. details of the timing of the works; and</li> </ul> <p>b) a detailed design plan of the connection to the AIE prepared in accordance with the design requirements under the MRP DCP.</p> <p><b>Note:</b> The detailed design of roads may require modification(s) to SSD-17647189 or separate DA(s).</p> | Refer to Appendix C CTMP |
| B19. Prior to commencement of operation of the development, the Applicant must construct Access Road 3 to the site boundary with the AIE, to the satisfaction of the Planning Secretary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Refer to Appendix C CTMP |
| B20. The Applicant must ensure the connection of Access Road 3 to Berriwerri Drive in the AIE is constructed and operational in accordance with the plans required by Condition B18, within 3 months of Berriwerri Drive in the AIE being completed, to the satisfaction of the Planning Secretary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Refer to Appendix C CTMP |
| <b>Eastern Leg of Roundabout to Edge Estate</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |
| <p>B21. Within six months of the date of this consent, the Applicant must prepare and submit the following plans to facilitate the construction and delivery of the eastern leg of the roundabout, in consultation with Council and the landowner of the Edge Estate, and to the satisfaction of the Planning Secretary and must include:</p> <p>a) a plan for the eastern leg of the roundabout, including:</p> <ul style="list-style-type: none"> <li>i. details of the scope of works to be undertaken on the site and the adjoining site of the Edge Estate (Frasers), (see, Figure 4, Appendix 1);</li> <li>ii. details of the delivery of the works; and</li> </ul> <p>b) a detailed design of the eastern leg of the roundabout prepared in accordance with the design requirements under the MRP DCP.</p> <p><b>Note:</b> The detailed design of the eastern leg of the roundabout may require modification(s) to SSD-17647189 or separate DA(s).</p>     | Refer to Appendix C CTMP |
| B22. The Applicant must ensure the eastern leg of the roundabout is constructed in accordance with the design plans in Condition B21.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Noted                    |
| <b>Freight Corridor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |
| B23. Prior to commencement of earthworks, the Applicant must ensure that all drainage from the development is adequately disposed of and managed and is not discharged into the freight corridor unless prior written approval has been obtained from TfNSW.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Noted                    |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Where addressed in CEMP                  |
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| <p>B24. Prior to the issue of a Construction Certificate for the bulk earthworks, the Applicant must submit the following documents to TfNSW for review and obtain written confirmation from the Certifier that the construction drawings and specifications comply with these documents:</p> <ul style="list-style-type: none"> <li>a) bulk earthworks detailed design drawings;</li> <li>b) bulk earthworks sections detailed design; and</li> <li>c) detailed design section drawings (in the area of the future dedicated freight corridor).</li> </ul> <p>A copy of the confirmation from the Certifier must be provided to TfNSW, prior to the commencement of earthworks.</p> | Refer to Appendix L Consultation Records |
| <b>Parking</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |
| <p>B25. The Applicant must provide sufficient parking facilities on-site in accordance with the MRP DCP, including for heavy vehicles and for site personnel, to ensure that traffic associated with the development does not utilise public and residential streets or public parking facilities.</p>                                                                                                                                                                                                                                                                                                                                                                               | Refer to Appendix C CTMP                 |
| <b>Street Trees</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |
| <p>B28. Prior to the commencement of any stage of road construction, detailed design plans showing the provision of passively irrigated street trees within the relevant stage of works must be submitted to the satisfaction of Council. The plans must:</p> <ul style="list-style-type: none"> <li>a) be prepared in consultation with Council; and</li> <li>b) demonstrate compliance with the MRP DCP.</li> </ul>                                                                                                                                                                                                                                                                | Noted                                    |
| <b>Appendix 3 – Traffic and Transport</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |
| <p>19. Altis will ensure that a Construction Traffic Management Plan (CTMP) is prepared and submitted to DPE. This plan will:</p> <ul style="list-style-type: none"> <li>a. be submitted to the Secretary for approval prior to the commencement of construction;</li> <li>b. describe the traffic volumes and movements to occur during construction;</li> <li>c. detail proposed measures to minimise the impact of construction traffic on the surrounding network, including driver behaviour and vehicle maintenance; and,</li> <li>d. detail the procedures to be implemented in the event of a complaint from the public regarding construction traffic.</li> </ul>           | Refer to Appendix C CTMP                 |
| 20. The CTMP will be implemented throughout the construction cycle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Noted                                    |
| 21. Altis will prepare a Workplace Travel Plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Noted                                    |
| <b>EARTHWORKS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |
| <b>Imported Soil</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Where addressed in CEMP  |
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| <p>B33. The Applicant must:</p> <ul style="list-style-type: none"> <li>a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site;</li> <li>b) where possible, source fill material from within the MRP;</li> <li>c) keep accurate records of the volume and type of fill to be used; and</li> <li>d) make these records available to the Planning Secretary upon request.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Refer to Appendix D ESCP |
| <b>WATER QUALITY AND HYDROLOGY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |
| <b>Dam Decommissioning Plan</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
| <p>B34. Prior to commencement of earthworks the Applicant must prepare a Dam Decommissioning Plan, addressing the Guidelines for Controlled Activities on Waterfront Land, to the satisfaction of the Planning Secretary. The Dam Decommissioning Plan must form part of the CEMP required by Condition C2. The Applicant must implement the Dam Decommissioning Plan approved by the Planning Secretary.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Refer to Appendix E DDMP |
| <b>Erosion and Sediment Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |
| <p>B35. Prior to the commencement of earthworks or other surface disturbance, the Applicant must prepare an Erosion and Sediment Control Plan (ESCP) to the satisfaction of the Planning Secretary. The ESCP must:</p> <ul style="list-style-type: none"> <li>a) be prepared by a Certified Professional in Erosion and Sediment Control (CPESC) specialist whose appointment has been approved by the Planning Secretary;</li> <li>b) be prepared in consultation with EHG, Sydney Water and Council and include written evidence of the outcomes of the consultation process and how the recommendations have been incorporated into the ESCP;</li> <li>c) be independently reviewed and verified by the ER prior to submission to the Planning Secretary;</li> <li>d) comply with the detailed technical specifications in the Technical Guidance or its latest version, the 'Blue Book' - Managing Urban Stormwater: Soils and Construction (Landcom 2004) and the performance criteria in Appendix 4 in this consent;</li> <li>e) detail measures to protect passively irrigated street trees during construction works, if these are installed before construction is completed; and</li> <li>f) be included in the CEMP required by Condition C2.</li> </ul> | Refer to Appendix D ESCP |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Where addressed in CEMP                                             |
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| <p>B36. The Applicant must:</p> <ul style="list-style-type: none"> <li>a) not commence earthworks until the ESCP required by Condition B35 is approved by the Planning Secretary;</li> <li>b) ensure installation and operation of the erosion and sediment controls are supervised and certified by the CPESC appointed under Condition B35(a);</li> <li>c) implement the ESCP approved by the Planning Secretary for the duration of earthworks and construction; and</li> <li>d) engage the CPESC to conduct monthly audits of the erosion and sediment controls for the duration of earthworks and construction and for a further 12 months following the completion of construction works to ensure the controls remain effective in achieving the construction phase stormwater quality targets in the Technical Guidance. Monthly audit reports must be provided to the Planning Secretary within 7 days of completing the audit.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>Refer to Appendix D ESCP</p>                                     |
| <p>B37. The ER appointed in accordance with Condition A36, shall make a written statement to the Planning Secretary confirming the erosion and sediment controls are operational, prior to the commencement of earthworks and other construction activities for the development. The ER must also verify that disturbed areas have been adequately stabilised at the completion of earthworks.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>Refer to Table 9 (Personnel Responsible)</p>                     |
| <p>B38. The development must comply with section 120 of the POEO Act, which prohibits the pollution of waters, except as expressly provided for in an EPL.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>Refer to Table 10 (Relevant Statutory Requirements)</p>          |
| <p><b>Stormwater Management System Design</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                     |
| <p>B39. Within three months of the date of this consent, or as otherwise agreed by the Planning Secretary, the Applicant must design the stormwater management system to the satisfaction of the Planning Secretary. The stormwater management system design must:</p> <ul style="list-style-type: none"> <li>a) be prepared in consultation with EHG, Sydney Water and Council and include written evidence of the outcomes of the consultation process and how the recommendations have been incorporated into the stormwater management system design;</li> <li>b) be prepared and certified by a suitably qualified chartered professional engineer with experience in modelling, design and supervision of WSUD systems, whose appointment has been endorsed by the Planning Secretary;</li> <li>c) be consistent with the plan shown on Figure 7 in Appendix 1;</li> <li>d) include all private, Council and trunk drainage infrastructure within the site including connections to adjacent landholdings;</li> <li>e) be designed in accordance with the Technical Guidance and demonstrate: <ul style="list-style-type: none"> <li>i. through MUSIC modelling, how the waterway health objectives and targets set out in the MRP DCP and Technical Guidance will be achieved;</li> <li>ii. how the development will ultimately connect to the Regional Stormwater Scheme and how the interim measures (such as the water reuse components of on-site detention tanks, bioretention systems and rainwater tanks) will be decommissioned once the development is connected to the Regional Stormwater Scheme;</li> <li>iii. that all stormwater management devices contain an impermeable liner and all naturalised trunk drainage (or other open drainage) is either lined</li> </ul> </li> </ul> | <p>Refer to Appendix E DDMP and Appendix L Consultation Records</p> |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Where addressed in CEMP  |
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| <p>with an impermeable liner, or ameliorated (i.e., gypsum), and compacted to a suitable depth and topsoiled (AS44119) to limit infiltration to soils;</p> <p>f) include functional design drawings that addresses the requirements of EHG's letter dated 26 September 2023;</p> <p>g) ensure proprietary devices are located on private land and only include sediment and nutrient removal if certified under Stormwater Quality Improvement Device Evaluation Protocol (SQIDEP);</p> <p>h) ensure gross pollutant traps are appropriately sized and designed in accordance with the Infrastructure Design Guidelines;</p> <p>i) demonstrate that sufficient land is reserved on-site for stormwater management purposes (such as irrigation areas and undeveloped areas) as shown on Figure 7 in Appendix 1, to ensure the development meets the waterway health objectives and targets in the MRP DCP and Technical Guidance, unless an alternative stormwater management strategy has been approved by the Planning Secretary;</p> <p>j) include landscape drawings that include planting details of the WSUD systems;</p> <p>k) include certification (and appropriate designed checklists) of the civil and landscape drawings by the chartered professional engineer appointed under Condition B39(b), that the design drawings comply with the Technical Guidance; and</p> <p>l) include evidence that the design and mix of WSUD infrastructure has considered ongoing operation and maintenance, including a detailed lifecycle cost assessment (including capital, operation / maintenance and renewal costs over 30 years).</p> |                          |
| <p>B40. The Applicant must:</p> <p>a) not commence earthworks until the design required by Condition B39 is approved by the Planning Secretary;</p> <p>b) ensure construction of the stormwater management system is supervised and certified by a suitably qualified chartered professional engineer with experience in modelling, design and supervision of WSUD systems; and</p> <p>c) implement the stormwater management system</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Noted                    |
| <p>B41. The Applicant must not carry out construction, other than those works approved under this consent, on land shown as 'landscape irrigation areas' on Figure 7 in Appendix 1 (SSDA-405 Water Sensitive Urban Design Management Plan, Rev E), or within Lots 7, 11 or 12, unless the site is connected to the Regional Stormwater Scheme or an alternative Stormwater Management System for the site has been approved by the Planning Secretary.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Noted                    |
| <b>Trunk Drainage Design</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |
| <p>B42. Within three months of the date of this consent, the Applicant must design the trunk drainage infrastructure on the site, to the satisfaction of the Planning Secretary. The trunk drainage infrastructure must:</p> <p>a) be designed in consultation with the Regional Stormwater Authority;</p> <p>b) be integrated into the Stormwater Management System Design required under Condition B39;</p> <p>c) document interim and ultimate (concept) at the upstream connection, consistent with the plan shown at Figure 8 in Appendix 1 and the Infrastructure Design Guidelines 2022 or its latest version, unless otherwise</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Refer to Appendix E DDMP |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Where addressed in CEMP  |
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| <p>agreed with the Regional Stormwater Authority and TfNSW;</p> <p>d) be designed so that the naturalized trunk drainage channel is used to convey all overland flows up to the 1% AEP critical flow where the catchment area upstream of the commencement of the trunk drainage exceeds 15 ha or where overland flows are unsafe to pedestrians and vehicles, whichever occurs first. Flows up to the critical probably maximum flood (PMF) shall be considered to understand the failsafe position of the trunk drainage;</p> <p>e) include updated flow modelling using DRAINS (ILSAX or Laurenson's Methods) and demonstrate consistency with the model parameters in the Infrastructure Design Guidelines;</p> <p>f) include adequate access for management and maintenance by the Regional Stormwater Authority, in accordance with the Infrastructure Design Guidelines, including provision of an easement as required under Condition B47;</p> <p>g) include appropriate connections from the trunk drainage channel on site to the existing downstream flow paths, until such time as the permanent drainage infrastructure downstream of the site is constructed;</p> <p>h) be informed by undertaking a risk assessment with Sydney Water, per Sydney Water's requirements on design options for connection of trunk drainage to the downstream piped trunk drainage system on neighbouring land to ensure best practice safety outcomes are achieved;</p> <p>i) ensure any connections into the trunk drainage channel on the site are designed to accommodate the trunk drainage channel design requirements; and</p> <p>j) include landscape drawings with planting details.</p> |                          |
| <p>B43. The Applicant must:</p> <p>a) not commence earthworks on site (except for the earthworks required to construct the Lot 2 building pad) until the design required by Condition B42 is approved by the Planning Secretary;</p> <p>b) ensure construction of the trunk drainage infrastructure is supervised and certified by a suitably qualified chartered professional engineer with experience in modelling, design and supervision of WSUD systems; and</p> <p>c) not commence operation of the development until the trunk drainage infrastructure is implemented in accordance with the design approved by the Planning Secretary under Condition B42.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Refer to Appendix E DDMP |
| Easements and Maintenance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |
| <p>B47. Prior to the issue of a Compliance Certificate under Section 73 of the Sydney Water Act, 1994, an easement under section 88A and / or restriction or public positive covenant under section 88E of the Conveyancing Act 1919 naming the Regional Stormwater Authority (Sydney Water) as the prescribed authority, which can only be revoked, varied or modified with the consent of the Regional Stormwater Authority and which provides for appropriate access to all trunk drainage land for maintenance at no cost to the Regional Stormwater Authority must be registered on the title of the land.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Section 3.2.3            |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Where addressed in CEMP |
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| <p>B48. The permanent stormwater management system must continue to be operated and maintained in perpetuity for the life of the development in accordance with the final operation and maintenance management plan. Regular inspection records are required to be maintained and made available to Council on request. All necessary improvements are required to be made immediately upon awareness of any deficiencies in the stormwater management systems.</p> <p><b>Note:</b> This does not include any passively irrigated street trees that may be transferred to the relevant roads authority. This also does not include trunk drainage infrastructure for which maintenance and operation will be transferred to the Regional Stormwater Authority</p>                                                                                                                                                                                                                           | Noted                   |
| <p>B49. All stormwater infrastructure (excluding the trunk drainage corridor), including bio-retention basins, shall remain under the ownership, control and care of the registered proprietor of the lots until which time they are decommissioned to connect to the Regional Scheme. Upstream drainage catchment pipes are to be located outside of the public road reserve and remain in private ownership, in accordance with Council requirements.</p> <p><b>Note:</b> This does not include any passively irrigated street trees that may be transferred to the relevant roads authority. This also does not include trunk drainage infrastructure for which maintenance and operation will be transferred to the Regional Stormwater Authority.</p>                                                                                                                                                                                                                                  | Noted                   |
| <b>Flood Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |
| <p>B53. Prior to the commencement of construction, the Applicant must prepare a Flood Emergency Response Plan to the satisfaction of the Planning Secretary. The Plan must form part of the CEMP and OEMP required by Conditions C2 and C5 and must:</p> <ul style="list-style-type: none"> <li>a) be prepared by a suitably qualified and experienced person(s) whose appointment has been endorsed by the Planning Secretary;</li> <li>b) address the provisions of the Floodplain Risk Management Guideline (OEH, 2007);</li> <li>c) include details of: <ul style="list-style-type: none"> <li>i. the flood emergency responses for both construction and operation phases of the development;</li> <li>ii. predicted flood levels;</li> <li>iii. flood warning time and flood notification;</li> <li>iv. assembly points and evacuation routes;</li> <li>v. evacuation and refuge protocols; and</li> <li>vi. awareness training for employees and contractors.</li> </ul> </li> </ul> | Refer to Appendix I FMP |
| <p>B54. The Applicant must:</p> <ul style="list-style-type: none"> <li>a) not commence construction until the Flood Emergency Response Plan required by condition B51 is approved by the Planning Secretary; and</li> <li>b) implement the most recent version of the Flood Emergency Response Plan approved by the Planning Secretary for the duration of the development.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Refer to Appendix I FMP |
| B55. All floor levels must be no lower than the 1% Annual Exceedance Probability flood plus 0.5 m of freeboard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Refer to Appendix I FMP |
| B56. Any structures below the 1% Annual Exceedance Probability plus 0.5 m of freeboard must be constructed from flood compatible building components.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Refer to Appendix I FMP |



| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | Where addressed in CEMP                   |     |      |                             |                 |              |          |              |           |               |          |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------|-----|------|-----------------------------|-----------------|--------------|----------|--------------|-----------|---------------|----------|-------------------------------------------|
| <b>NOISE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                                           |     |      |                             |                 |              |          |              |           |               |          |                                           |
| <b>Hours of Work</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                           |     |      |                             |                 |              |          |              |           |               |          |                                           |
| <p>B57. The Applicant must comply with the hours detailed in Table 2 unless otherwise agreed in writing by the Planning Secretary.</p> <p><i>Table 2: Hours of Work</i></p> <table border="1"> <thead> <tr> <th>Activity</th><th>Day</th><th>Time</th></tr> </thead> <tbody> <tr> <td rowspan="2">Earthworks and Construction</td><td>Monday – Friday</td><td>7 am to 6 pm</td></tr> <tr> <td>Saturday</td><td>8 am to 1 pm</td></tr> <tr> <td>Operation</td><td>Monday-Sunday</td><td>24 hours</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | Activity                                  | Day | Time | Earthworks and Construction | Monday – Friday | 7 am to 6 pm | Saturday | 8 am to 1 pm | Operation | Monday-Sunday | 24 hours | Refer to Section 2.4 and Appendix F CNVMP |
| Activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Day             | Time                                      |     |      |                             |                 |              |          |              |           |               |          |                                           |
| Earthworks and Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Monday – Friday | 7 am to 6 pm                              |     |      |                             |                 |              |          |              |           |               |          |                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Saturday        | 8 am to 1 pm                              |     |      |                             |                 |              |          |              |           |               |          |                                           |
| Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Monday-Sunday   | 24 hours                                  |     |      |                             |                 |              |          |              |           |               |          |                                           |
| <p>B58. Works outside of the hours identified in condition B57 may be undertaken in the following circumstances:</p> <ul style="list-style-type: none"> <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | Refer to Section 2.4 and Appendix F CNVMP |     |      |                             |                 |              |          |              |           |               |          |                                           |
| <b>Construction Noise Limits</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                           |     |      |                             |                 |              |          |              |           |               |          |                                           |
| <p>B59. 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 the Appendix 3.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | Refer to Appendix F CNVMP                 |     |      |                             |                 |              |          |              |           |               |          |                                           |
| <b>Construction Noise and Vibration Management Plan</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                           |     |      |                             |                 |              |          |              |           |               |          |                                           |
| <p>B60. 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</p> <ul style="list-style-type: none"> <li>a) be prepared by a suitably qualified and experienced noise expert whose appointment has been endorsed by the Planning Secretary;</li> <li>b) be approved by the Planning Secretary prior to the commencement of earthworks for the development;</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 including acoustic screens around the perimeter of the site; and</li> </ul> |                 | Refer to Appendix F CNVMP                 |     |      |                             |                 |              |          |              |           |               |          |                                           |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Where addressed in CEMP   |
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| f) describe the community consultation undertaken to develop the strategies in condition B60(e).<br>g) include a complaints management system that would be implemented for the duration of the development.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |
| B61. The Applicant must:<br>a) not commence earthworks until the Construction Noise and Vibration Management Plan required by condition B60 is approved by the Planning Secretary; and<br>b) implement the most recent version of the Construction Noise and Vibration Management Plan approved by the Planning Secretary for the duration of construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Refer to Appendix F CNVMP |
| <b>Noise Verification Report</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |
| B65. Prior to the issue any construction certificate for the warehouse on Lot 2, the Applicant must prepare and submit a Design Noise Verification Report for the development to the satisfaction of the Planning Secretary. The Applicant must not commence construction of the warehouse until the Design Noise Verification Report is approved by the Planning Secretary. The Design Noise Verification Report must:<br>a) include detailed design and mechanical plant required for the tenant;<br>b) modelling and analysis of compliance with noise limits specified in condition B62<br>c) an outline of management actions to be taken to address any exceedances of the limits specified in Condition B62; and<br>d) a description of contingency measures in the event management actions are not effective in reducing noise levels to an acceptable level. | Refer to Appendix F CNVMP |
| B66. Should the Design Noise Verification Report identify that the noise limits in Condition B62 cannot be achieved through the mitigation measures and contingency measures required to be considered under Condition B65, the Applicant must:<br>a) offer to enter into noise agreement(s) with the landowner/s of 930-966 Mamre Road, Kemps Creek; and<br>b) provide written evidence to the Planning Secretary that an agreement is in place with these receivers.                                                                                                                                                                                                                                                                                                                                                                                                 | Refer to Appendix F CNVMP |
| B67. The noise agreement required under Condition B66 must be in force until the existing residential use/s ceases on the land subject to the agreement or a development consent for general industrial or other employment uses applies to the land, whichever is the sooner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Refer to Appendix F CNVMP |
| B68. If a Noise Agreement is in place with a specific receiver(s) to exceed the noise limits in Condition B62, the noise limits in Table 4 do not apply to that receiver(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to Appendix F CNVMP |
| <b>Road Traffic Noise</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |
| B70. Prior to the commencement of earthworks, 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Refer to Appendix C CTMP  |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Where addressed in CEMP   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <b>VIBRATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |
| <b>Vibration Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |
| <p>B71. Vibration caused by earthworks and construction at any residence or structure outside the site must be limited to:</p> <p>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</p> <p>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).</p> | Refer to Appendix F CNVMP |
| B72. 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 B71.                                                                                                                                                                                                                                                                                                                                          | Refer to Appendix F CNVMP |
| B73. The limits in conditions B71 and B72 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.                                                                                                                                                                                                                                                                                                                                      | Refer to Appendix F CNVMP |
| <b>Dilapidation Reporting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |
| <p>B74. The Applicant must offer and prepare (if the offer is accepted) a pre-dilapidation and post-dilapidation survey at 930-966 Mamre Road Kemps Creek:</p> <p>a) prior to the commencement of construction; and</p> <p>b) within one month of the conclusion of construction, or as otherwise agreed with the Planning Secretary.</p> <p>The surveys must be submitted to the Planning Secretary and the relevant property owners prior to construction works commencing on the site.</p>                                                | Refer to Appendix F CNVMP |
| B75. Should the survey at Condition B74(b) identify any damage, the Applicant must discuss the repairs to be undertaken with the relevant property owners, and repair or pay the full costs associated with repairing any part of the building that is determined to be damaged by the carrying out construction works associated with the development.                                                                                                                                                                                      | Noted                     |
| <b>Signage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |
| B80. The Applicant must prepare a Detailed Signage Strategy for the site demonstrating consistency with the MRP DCP. The Detailed Signage Strategy must be prepared to the satisfaction of the Planning Secretary.                                                                                                                                                                                                                                                                                                                           | Noted                     |
| <b>Appendix 3 – Noise and Vibration</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |
| 18. During the construction phase, Altis will ensure that all recommendations of the Construction Noise and Vibration Management Plan are adopted and implemented.                                                                                                                                                                                                                                                                                                                                                                           | Noted                     |
| <b>AIR QUALITY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |
| <b>Dust Minimisation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |
| B81. The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.                                                                                                                                                                                                                                                                                                                                                                                                                    | Refer to Appendix G CAQMP |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Where addressed in CEMP          |
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| <p>B82. During construction, the Applicant must ensure that:</p> <ul style="list-style-type: none"> <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Refer to Appendix G CAQMP</p> |
| <b>Construction Air Quality Management Plan</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |
| <p>B83. Prior to the commencement of operation, 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:</p> <ul style="list-style-type: none"> <li>(a) be prepared by a suitably qualified and experienced person(s);</li> <li>(b) detail and rank all emissions from all sources of the development, including particulate emissions;</li> <li>(c) describe a program that is capable of evaluating the performance of the construction and determining compliance with key performance indicators;</li> <li>(d) identify the control measures that that will be implemented for each emission source; and</li> <li>(e) nominate the following for each of the proposed controls: <ul style="list-style-type: none"> <li>i. key criteria;</li> <li>ii. monitoring method; and</li> <li>iii. locations, frequency and duration of monitoring;</li> </ul> </li> <li>f) outline procedures that will be implemented in relation to: <ul style="list-style-type: none"> <li>i. record keeping;</li> <li>ii. reporting to the Environmental Representative required under Condition A36;</li> <li>iii. complaints register;</li> <li>iv. response procedures; and</li> <li>v. compliance monitoring;</li> </ul> </li> <li>g) detail contingency measures to be implemented to reduce any exceedances of relevant performance indicators or criteria and include a timetable for implementation.</li> </ul> | <p>Refer to Appendix G CAQMP</p> |
| <p>B84. The Applicant must:</p> <ul style="list-style-type: none"> <li>a) not commence earthworks until the Construction Air Quality Management Plan required by condition B83 is approved by the Planning Secretary; and</li> <li>b) implement the most recent version of the Construction Air Quality Management Plan approved by the Planning Secretary for the duration of the development.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>Refer to Appendix G CAQMP</p> |
| <b>Appendix 3 – Air Quality</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Where addressed in CEMP |
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| <p>13. Prior to commencement of works, Altis will develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the relevant regulatory bodies.</p> <p>14. Prior to commencement of works, a construction air quality management plan will be developed (post approval) in line with the Air Quality and Odour Impact Assessment.</p> <p>15. Altis will implement an emissions testing program in accordance with the requirements of an Environmental Protection Licence (EPL).</p> <p>16. Altis will develop an Operational Environmental Management Plan (OEMP) to address air emissions (including odour).</p> <p>17. Altis has an Environmental and Sustainability Policy ESN-001P that outlines commitment to Environmental compliance. Altis will accept and implement the recommendations as outlined in the Air Quality and Odour Impact Assessment for monitoring of performance.</p> | Noted                   |
| <b>Odour Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |
| B85. The Applicant must ensure the development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Noted                   |
| <b>HISTORIC HERITAGE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |
| <b>Unexpected Finds Protocol</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |
| B89. If any archaeological relics are uncovered during the course of the work, then all work must cease immediately in that area. Unexpected finds must be evaluated and recorded in accordance with the requirements of Heritage NSW.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Refer to Appendix J UFP |
| <b>Appendix 3 – Aboriginal Cultural Heritage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |
| <p>22. All contractors undertaking earthworks on site will be briefed on the protection of Aboriginal heritage objects under the National Parks and Wildlife Act 1974 and the penalties for damage to these items.</p> <p>23. If unforeseen Aboriginal objects are uncovered during construction the unexpected finds protocol will be followed. Work will cease in the area, and the NSW Office of Environment and Heritage will be informed.</p> <p>B86. Prior to the commencement of earthworks, the Applicant must implement the recommendations outlined in Section 8 of the Aboriginal Cultural Heritage Assessment Report, prepared by Austral Archaeology Pty Ltd and dated 9 July 2021.</p>                                                                                                                                                                                                                                                     | Noted                   |
| <p>B87. If any item or object of Aboriginal heritage significance is identified on site:</p> <p>a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately.</p> <p>a) a 10 m wide buffer area around the suspected item or object must be cordoned off; and</p> <p>b) Heritage NSW must be contacted immediately.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Refer to Appendix J UFP |
| B88. Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the <i>National Parks and Wildlife Act 1974</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Refer to Appendix J UFP |
| <b>BIODIVERSITY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| B90. Prior to commencement of construction of the Stage 1 and 2 intersection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Noted                   |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Where addressed in CEMP           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <p>works, the Applicant must purchase and retire the following biodiversity credits:</p> <ul style="list-style-type: none"> <li>a) one ecosystem credit for the River Flat Eucalypt Forest – on coastal floodplains of NSW, North Coast, Sydney Basin, and South East corner Bioregions (PCT 835);</li> <li>b) one ecosystem credit for the Cumberland Plain Woodland in the Sydney basin bioregion (PCT 849); and</li> <li>c) two species credits for the Southern Myotis.</li> </ul> <p>The biodiversity credits must be retired in accordance with the requirements of EHG's Biodiversity Offsets Scheme and the <i>Biodiversity Conservation Act 2016</i>.</p> |                                   |
| B91. The requirement to retire biodiversity credits (see Condition B90) may be satisfied by payment to the Biodiversity Conservation Fund of an amount equivalent to the number and classes of credits, as calculated by the EHG's Biodiversity Offsets Payment Calculator.                                                                                                                                                                                                                                                                                                                                                                                        | Noted                             |
| <p>B92. The Applicant must provide the Planning Secretary with evidence that:</p> <ul style="list-style-type: none"> <li>a) the retirement of ecosystem credits has been completed (see Condition B90); or</li> <li>b) a payment has been made to the Biodiversity Conservation Fund (see Condition B91), prior to undertaking any clearing or construction works.</li> </ul>                                                                                                                                                                                                                                                                                      | Noted                             |
| B93. Prior to commencement of earthworks or construction, the Applicant must implement the mitigation measures recommended in Section 7 of the Biodiversity Development Assessment Report, prepared by Biosis and dated 2 August 2023.                                                                                                                                                                                                                                                                                                                                                                                                                             | Refer to Table 17 under Section 4 |
| <b>HAZARD AND RISK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |
| <b>Dangerous Goods</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |
| B94. The quantities of dangerous goods stored and handled at the individual lots for the site must be below the threshold quantities listed in the Department of Planning's Hazardous and Offensive Development Application Guidelines – Applying SEPP 33 at all times and not trigger the Chapter 3 of <i>State Environmental Planning Policy (Resilience and Hazards) 2021</i> .                                                                                                                                                                                                                                                                                 | Refer to Table 17 under Section 4 |
| <p>B95. Dangerous goods, as defined by the Australian Dangerous Goods Code, must be stored and handled strictly in accordance with:</p> <ul style="list-style-type: none"> <li>a) all relevant Australian Standards;</li> <li>b) for liquids, the NSW EPA's Storing and Handling of Liquids: Environment Protection – Participants Manual</li> </ul>                                                                                                                                                                                                                                                                                                               | Refer to Table 17 under Section 4 |
| B96. In the event of an inconsistency between the requirements of Conditions B95(a) to B95(b) the most stringent requirement must prevail to the extent of the inconsistency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Noted                             |
| <b>CONTAMINATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |
| <b>Unexpected Finds</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |
| B100. Prior to the commencement of earthworks, the Applicant must prepare a hazardous building materials survey of the structures on site and present the findings of this survey to the Certifier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Refer to Appendix J UFP           |
| <b>Appendix 3 - Dangerous Goods</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |
| 26. Altis will ensure the following documentation is prepared in accordance with the WHS Regulation 2017:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Noted                             |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Where addressed in CEMP |
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| <ul style="list-style-type: none"> <li>• A DGs Register, indicating the type of chemical, any notations that may be required from the risk assessment and the Safety Data Sheet for the chemical.</li> <li>• A Placard Schedule.</li> <li>• A Manifest.</li> <li>• A DG Risk Assessment of the storage and handling areas.</li> <li>• An Emergency Response Plan (ERP) and Emergency Services Information Package (ESIP).</li> <li>• A Hazardous Area Classification (HAC) and Hazardous Area Verification Dossier (HAVD).</li> </ul>                                                                                                                                                                |                         |
| <b>CONTAMINATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |
| <b>Unexpected Finds</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |
| B99. Prior to the commencement of earthworks, the Applicant must prepare an unexpected contamination 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 must be disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site.                                                                                                                                                                                                                     | Refer to Appendix J UFP |
| <b>Asbestos</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| <p>B101. The Applicant must ensure that any asbestos encountered during the earthworks and construction is monitored, handled, transported, and disposed of by appropriately qualified and licensed contractors in accordance with the requirements of SafeWork NSW and relevant guidelines, including:</p> <ul style="list-style-type: none"> <li>a) Work Health and Safety Regulation 2017;</li> <li>b) SafeWork NSW Code of Practice – How to Manage and Control Asbestos in the Workplace September 2016;</li> <li>c) SafeWork NSW Code of Practice – How to Safely Remove Asbestos September 2016; and</li> <li>d) Protection of the Environment Operations (Waste) Regulation 2014.</li> </ul> | Refer to Appendix J UFP |
| <b>Bushfire Protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
| <p>B102. The Applicant must ensure the development complies with the:</p> <ul style="list-style-type: none"> <li>(a) relevant provisions of Planning for Bushfire Protection 2019 ; and</li> <li>(b) recommendations within the Bushfire Assessment, Access Logistics Park 884-928 Mamre Road, Kemps Creek, dated 29 August 2022 (reference: 20140), prepared by Peterson Bushfire.</li> </ul>                                                                                                                                                                                                                                                                                                       | Noted                   |
| <b>Appendix 3 – Bushfire</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |
| <p>27. Public Road design and construction is to comply with Table 5.3b of PBP. An exemption is the interim single access road may be longer than 200 m.</p> <p>28. Altis will ensure that the Site is to be maintained to achieve the performance requirement of an Inner Protection Area (IPA) as described by Appendix A4.1.1 of PBP. The following landscaping specifications have been designed to achieve an IPA standard at this Site:</p> <ul style="list-style-type: none"> <li>a. Trees: <ul style="list-style-type: none"> <li>i. Trees at maturity should not touch or overhang the building;</li> </ul> </li> </ul>                                                                     | Noted                   |



| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Where addressed in CEMP   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <p>ii. Tree canopies should not be connected when at maturity. Gaps between crowns or groups of crowns are to be maintained at distances of 2 to 5m.</p> <p>b. Shrubs:</p> <p>i. Ensure gaps in the vegetation, such as between garden beds, to prevent the spread of fire towards the building;</p> <p>ii. Clumps of shrubs should be separated from glazing and doors by a distance of at least twice the height of the vegetation.</p> <p>c. Groundcovers:</p> <p>i. Grass should be kept mown (as a guide grass should be kept to no more than 100mm in height);</p> <p>ii. Leaves and vegetation debris should be regularly removed;</p> <p>Organic mulch is not to be used within 1 m of a building.</p> <p>29. The proposed public roads require fire hydrants to be installed to comply with AS 2419.1 – 2005 Fire Hydrant Installations - System Design, Installation and Commissioning (AS 2419).</p> <p>30. The warehouse will require fire hydrants to be installed to comply with AS 2419.1 – 2005 Fire Hydrant Installations</p> <p>- System Design, Installation and Commissioning (AS 2419) so that all sides of the building are within 70 m of a</p> <p>hydrant by lay of the hose (or 90 m with a tanker parked in-line maximum 20 m from the hydrant).</p> <p>31. Any gas services are to be installed and maintained in accordance with AS/NZS 1596- 2014 The storage and handling of LP gas.</p> <p>32. Hazardous or combustible materials are not to be stored externally.</p> |                           |
| <b>COMMUNITY ENGAGEMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |
| B103. The Applicant must consult with the community regularly throughout the development, including consultation with the nearby sensitive receivers identified in Appendix 2, relevant regulatory authorities, Registered Aboriginal Parties, and other interested stakeholders.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Refer to Appendix F CNVMP |
| <b>WASTE MANAGEMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |
| <b>Construction and Demolition Waste Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |
| <p>B104. Prior to the commencement of construction of the development, the Applicant must prepare a Construction and Demolition Waste Management Plan for the development. The Plan must form part of a CEMP in accordance with condition C2 and must:</p> <p>a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling, and disposal locations; and</p> <p>b) be implemented for the duration of construction works.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to Appendix H WMP   |
| <p>B105. The Applicant must:</p> <p>a) not commence construction until the Construction and demolition Waste Management Plan has been prepared; and</p> <p>b) implement the most recent version of the Construction and Demolition Waste Management Plan approved by the Planning Secretary.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Refer to Appendix H WMP   |
| <b>Appendix 3 – Waste Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |

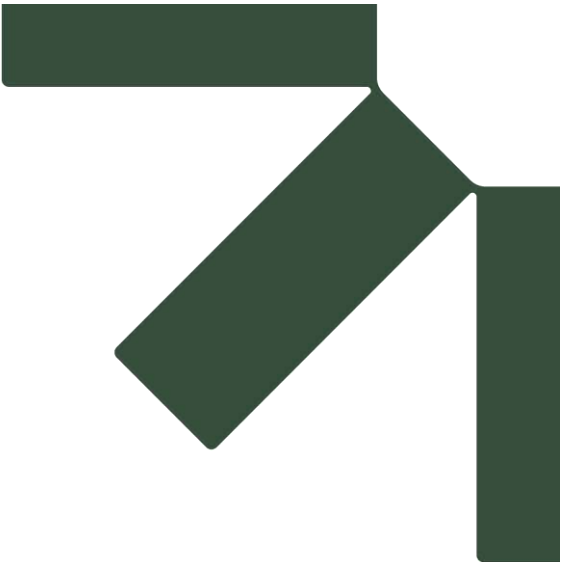
| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Where addressed in CEMP |
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| 24. During construction, Altis will implement the measures contained within the prepared Waste Management Plan. These are to be incorporated into the CEMP to be issued prior to commencement of construction.                                                                                                                                                                                                                                                                                                                       | Noted                   |
| 25. Altis will ensure that all waste generated on-site during construction and operation is classified in accordance with the Waste Classification Guidelines: Part 1 Classifying Waste and disposed of at facility that may lawfully accept the waste.                                                                                                                                                                                                                                                                              |                         |
| Waste Storage and Processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |
| B108. Prior to the commencement of construction of the warehouse, the Applicant must obtain agreement from Council for the design of the waste storage area for the warehouse.                                                                                                                                                                                                                                                                                                                                                       | Refer to Appendix H WMP |
| B109. Waste must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighboring public or private properties.                                                                                                                                                                                                                                                                                                                                                             | Refer to Appendix H WMP |
| B110. 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 facility that may lawfully accept the waste.                                                                                                                                                                                                                                  | Refer to Appendix H WMP |
| Pests, Vermin and Priority Weed Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
| B111. (a) implement suitable measures to manage pests, vermin and declared priority weeds on the site; and<br><br>(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<br><br>cause the loss of amenity in the surrounding area.<br><br>Note: For the purposes of this condition, priority weed has the same definition as the term in the Biosecurity Act 2015. | Refer to Section 5      |
| PART C – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |
| ENVIRONMENTAL MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |
| Management Plans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Where addressed in CEMP |
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| <p>C1. Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:</p> <ul style="list-style-type: none"> <li>a) detailed baseline data;</li> <li>b) details of: <ul style="list-style-type: none"> <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> </li> <li>c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;</li> <li>d) a program to monitor and report on the: <ul style="list-style-type: none"> <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> </li> <li>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;</li> <li>f) a program to investigate and implement ways to improve the environmental performance of the development over time;</li> <li>g) a protocol for managing and reporting any: <ul style="list-style-type: none"> <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> </li> <li>h) a protocol for periodic review of the plan.</li> </ul> <p><b>Note:</b> <i>The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans</i></p> | <p>Noted</p>            |
| CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |
| <p>C2. The Applicant must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>This Plan</p>        |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Where addressed in CEMP |
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| <p>C3. As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:</p> <ul style="list-style-type: none"> <li>a) Construction Traffic Management Plan (see Condition B1);</li> <li>b) Erosion and Sediment Control Plan (see Condition B35);</li> <li>c) Dam Decommissioning Plan (see Condition B34);</li> <li>d) Construction Noise and Vibration Management Plan (see Condition B60);</li> <li>e) Construction Air Quality Management Plan (see Condition B83);</li> <li>f) Construction and Demolition Waste Management Plan (see Condition B106(d));</li> <li>g) Unexpected Finds Protocol (see Conditions B86 and B89);</li> <li>h) Community Consultation and Complaints Handling;</li> </ul> | Refer to Section 1.2    |
| <b>REVISION OF STRATEGIES, PLANS AND PROGRAMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |
| <p>C8. Within three months of:</p> <ul style="list-style-type: none"> <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, the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing that a review is being carried out.</li> </ul>                                                                                                                                           | Section 7               |
| <p>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.</p> <p><b>Note:</b> <i>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.</i></p>                                                                                                    | Section 7               |
| <b>REPORTING AND AUDITING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |
| <b>Incident notification, reporting and response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
| <p>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 3.</p>                                                                                                                                                                                                                                                   | Refer to Table 14       |
| <b>NON-COMPLIANCE NOTIFICATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |
| <p>C11. The Planning Secretary must be notified in writing to the Major Projects website within seven days after the Applicant becomes aware of any non-compliance.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Section 3.4             |

| Relevant Development Consent Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Where addressed in CEMP |
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| 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 3.4             |
| C13. A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Section 3.4             |
| <b>MONITORING AND ENVIRONMENTAL AUDITS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |
| <p>C16. Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy, or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&amp;A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance reporting and independent auditing.</p> <p>Note: For the purposes of this condition, as set out in the EP&amp;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 on compliance with the consent or the environmental management or impact of the development.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Section 5               |
| <b>ACCESS TO INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| <p>C17. At least 48 hours before the commencement of construction until the completion of all works under this consent, the Applicant must:</p> <p>a) make the following information and documents (as they are obtained or approved) publicly available on its website:</p> <ul style="list-style-type: none"> <li>i. the documents referred to in condition A2 of this consent;</li> <li>ii. all current statutory approvals for the development;</li> <li>iii. all approved strategies, plans and programs required under the conditions of this consent;</li> <li>iv. the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;</li> <li>v. 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;</li> <li>vi. 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;</li> <li>vii. a summary of the current stage and progress of the development;</li> <li>viii. contact details to enquire about the development or to make a complaint;</li> <li>ix. complaints register, updated monthly;</li> <li>x. the Compliance Report of the development;</li> <li>xi. audit reports prepared as part of any Independent Audit of the development and the Applicant’s response to the recommendations in any audit report;</li> </ul> | Noted                   |

| Relevant Development Consent Conditions                                                                                                                         | Where addressed in CEMP |
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| <p>xii. any other matter required by the Planning Secretary; and</p> <p>b) keep such information up to date, to the satisfaction of the Planning Secretary.</p> |                         |



# **Appendix C      Construction Traffic Management Plan**



# Allied

## TRAFFIC MANAGEMENT



## Construction Traffic Management Plan (CTMP)

*"Access Logistics Park, 884-928 Mamre Road – Kemps Creek"*

Client: Burton Contractors

Date: 29/11/2024

Prepared By: Nass Chami

PWZTMP –0052135507



## Document Control

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| <b>Project No.</b>    | 430                                                       |
| <b>Project</b>        | Access Logistic Park                                      |
| <b>Client</b>         | Altis Bulky Retail Pty Ltd                                |
| <b>File Reference</b> | Burton Contractors Altis Subdivision Mamre Rd Kemps Creek |

## Revisions History

| Revision No. | Date       | Description                                                                  | Prepared By | Approved By |
|--------------|------------|------------------------------------------------------------------------------|-------------|-------------|
| 0            | 12/02/2024 | Draft Submission                                                             | Nass Chami  | Nass Chami  |
| 1            | 28/02/2024 | Updated CTMP to address ER comments dated 28/02/2024                         | Nass Chami  | Nass Chami  |
| 2            | 19/03/2024 | Updated CTMP to address ER comments dated 19/03/2024                         | Nass Chami  | Nass Chami  |
| 3            | 12/04/2024 | Updated CTMP to address ER comments dated 12/04/2024                         | Nass Chami  | Nass Chami  |
| 4            | 15/04/2024 | Updated CTMP to address ER comments dated 15/04/2024                         | Nass Chami  | Nass Chami  |
| 5            | 06/05/2024 | Updated CTMP to address ER comments dated 23/04/2024                         | Nass Chami  | Nass Chami  |
| 6            | 23/05/2024 | Updated CTMP to address ER comments dated 15/05/2024                         | Nass Chami  | Nass Chami  |
| 7            | 27/05/2024 | Updated CTMP to address ER comments dated 27/05/2024                         | Nass Chami  | Nass Chami  |
| 8            | 29/05/2024 | Updated CTMP to address Barings email dated 29/05/2024                       | Nass Chami  | Nass Chami  |
| 9            | 04/06/2024 | Updated CTMP to address DPHI email dated 03/06/2024                          | Nass Chami  | Nass Chami  |
| 10           | 21/06/2024 | Updated CTMP to address Barings email dated 11/06/2024                       | Nass Chami  | Nass Chami  |
| 11           | 26/07/2024 | Updated CTMP to address Barings email dated 15/07/2024                       | Nass Chami  | Nass Chami  |
| 12           | 09/08/2024 | Restructure CTMP and updates to address DPHI comments email dated 07/08/2024 | Nass Chami  | Nass Chami  |
| 13           | 15/08/2024 | Updated CTMP to address DPHI comments dated on email 15/08/24 from Barings   | Nass Chami  | Nass Chami  |
| 14           | 29/11/2024 | Updated CTMP to change primary site access                                   | Nass Chami  | Nass Chami  |

## Distribution

| Revision No. | Date       | Company                    | Recipient        |
|--------------|------------|----------------------------|------------------|
| 0            | 12/02/2024 | Burton Contractors Pty Ltd | Zubair Awan      |
| 1            | 28/02/2024 | Burton Contractors Pty Ltd | Zubair Awan      |
| 2            | 19/03/2024 | Burton Contractors Pty Ltd | Zubair Awan      |
| 3            | 12/04/2024 | Burton Contractors Pty Ltd | Zubair Awan      |
| 4            | 15/04/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |
| 5            | 06/05/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |
| 6            | 23/05/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |
| 7            | 27/05/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |
| 8            | 29/05/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |
| 9            | 04/06/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |
| 10           | 21/06/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |

TRAFFIC MANAGEMENT PLAN



|    |            |                            |                  |
|----|------------|----------------------------|------------------|
| 11 | 26/07/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |
| 12 | 09/08/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |
| 13 | 15/08/2024 | Burton Contractors Pty Ltd | Zacharia Youssef |
| 14 | 29/11/2024 | Burton Contractors Pty Ltd | Mustafa Ak       |

Revision of Plans

Should a revised plan be generated to either improve the environmental performance of the development, cater for a modification or comply with a direction, the revised CTMP plan must be submitted to the Planning Secretary for approval within six weeks of the review. In addition, there will be a corresponding revision number and summary details noted on the document revision table above.

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# GLOSSARY

| ACRONYM | DESCRIPTION                                               |
|---------|-----------------------------------------------------------|
| AS      | Australian Standards                                      |
| AV      | Articulated Vehicle                                       |
| CCTV    | Closed-Circuit Television                                 |
| CEMP    | Construction Environmental Management Plan                |
| CESR    | Contractor's Environmental Site Representative            |
| CPESC   | Certified Professional in Erosion and Sedimentary Control |
| CTMP    | Construction Traffic Management Plan                      |
| DCOC    | Driver Code of Conduct                                    |
| DCP     | Development Control Plan                                  |
| DPHI    | Department of Planning, Housing and Infrastructure        |
| EIS     | Environmental Impact Statement                            |
| HV      | Heavy Vehicles                                            |
| LGA     | Local Government Area                                     |
| LV      | Light Vehicles                                            |
| MRP     | Mamre Road Precinct                                       |
| OOHW    | Out of Hours Works                                        |
| PCC     | Penrith City Council                                      |
| PPE     | Personal Protective Equipment                             |
| RAV     | Restricted Access Vehicle                                 |
| ROL     | Road Occupancy License                                    |
| SES     | State Emergency Services                                  |
| SSD     | State Significant Development                             |
| SZA     | Speed Zone Authorisation                                  |
| TGS     | Traffic Guidance Schemes                                  |
| TCAWS   | Traffic control at work sites                             |
| TfNSW   | Transport for NSW                                         |
| TMC     | Traffic Management Centre (131 700)                       |
| VMP     | Vehicle Movement Plan                                     |
| VMS     | Variable Message Boards                                   |



## 1. Introduction

### 1.1 Overview

This Construction Traffic Management Plan (CTMP) outlines the traffic control and traffic management procedures to be implemented to manage potential impacts and risks associated with the traffic environment during the internal Altis subdivision of Mamre Road, Kemps Creek. This CTMP has been developed to manage traffic and related impacts during the construction phase of the development.

This CTMP submission contains designed Traffic Guidance Schemes (TGS) included at Appendix 6. The Concept plans for Stage 2 and Stage 3 have been provided. Noting that a detailed design process for this infrastructure is to be completed with TfNSW, the final design, once completed, will be incorporated into this CTMP.

The CTMP will be reviewed (and revised if necessary) in accordance with the requirements of C1 (f) Management Practices. The annual review of the CTMP is required as part of the reporting process to ensure that current practices align with industry and GCAA best practice standards. The monitoring data will be reviewed as collected and for Annual Review reporting periods. The CTMP will be modified as required to reflect changes to the construction activities, monitoring results, or in response to stakeholder comments. Any modifications will be made only after consultation with Barrington/Altis.

#### 1.1.1 Objective and Strategies

This CTMP is part of the overall planning and approval process associated with the project. The purpose of the CTMP is to describe how the delivery contractor, that is, Burtons Contractors proposes to manage traffic during the work activities to ensure the safe and efficient movement of traffic around the work area.

A main priority of this project is to minimise disruption to traffic and to ensure all activities undertaken are carried out in a safe manner within the scope permitted by all stakeholder authorities. Key objectives are listed below:

- Implementing traffic control arrangements that maximize safety for workers and public by isolating the work area whilst minimizing delay to road users.
- Planning and staging all work activities to effectively minimize road occupancy and any potential impacts on the road network.
- Seeking approval from key stakeholders including Transport for NSW (TfNSW), Traffic Management Centre (131 700) (TMC), Penrith City Council (PCC), Emergency Services and local businesses and residents to ensure they are informed about the works and changes to traffic conditions.
- Consideration and monitoring of cumulative traffic related impacts.

To achieve these objectives, it will be necessary to ensure appropriate control measures are implemented during work activities to address all potential traffic impacts and that these control measures comply with regulations and conditions of approval. To meet these objectives the CTMP will incorporate the following strategies:

- Ensuring delays are minimised as much as possible.
- Ensuring all road users are managed including motorists, pedestrians, cyclists, vulnerable road- users and people using public transport.
- Ensuring work activities are carried out sequentially to minimise adverse impacts.
- Ensuring appropriate controls are in place to provide a safe construction site for all workers.
- Provision will be made for works personnel to enter the work area in a safe manner in accordance with safety procedures.
- All entry and exit movements to and from traffic streams will be in accordance with the requirements of safe working practices.

Site-specific TGS's have been developed and are included in Annexure A. These TGS's shall identify the traffic control measures to be implemented during the various stages of the project. All proposed arrangements, signage and devices details contained within this Construction Traffic Management Plan (CTMP) and Traffic Guidance Scheme (TGS) are in accordance with Australian Standards (AS) 1742.3 as well as Transport for NSW (TfNSW) Traffic Control at Work Sites Manual 6.1 and TfNSW Specification G10 – Control of Traffic.

## 1.2 Project Representatives & Stakeholders

This report has been prepared by a consultant who holds a SafeWork NSW WHS Control Work card, accredited for the 'Prepare a Work Zone Traffic Management Plan. Details of the accredited consultant is provided below:

- Nass Chami Ticket No. PWZTMP –0052135507

This CTMP has been prepared to meet the requirements outlined in **Annexure A Traffic Guidance Schemes (TGS)** and **Annexure E Traffic Incident Management Plan**, Section E.2 of the Transport for NSW Traffic Control at Work Sites Technical Manual (Issue No. 6.1, Feb 2022) (TCAW), and Technical Direction – TD 00003:2022 (Issue 16 Nov 2022) (TCAW Update).

Refer to the below Table 1 Client/Stakeholder Representatives.

*Table 1 Client/Stakeholder Representatives*

| NAME         | COMPANY          | ROLE / RESPONSIBILITY        |
|--------------|------------------|------------------------------|
| Philip Grech | Barings Pty Ltd  | Development Manager          |
| Anthony Murr | Project Strategy | Project Superintendent       |
| Ben Bracken  | BB Enviro        | Environmental Representative |

## 1.3 Project Details

Burton Contractors are undertaking an industrial development and subdivision between 904 – 928 Mamre Road, Kems Creek and 884-902 Mamre Road Kems Creek (refer to Figure 1). The construction works for the site includes the bulk the earthworks for the Initial Stage Lots 1 through to 11, and Secondary Stage Lot 12.



*Figure 1 Primary Access*

## 1.3.1 Construction Activities/Works

The project includes the internal development of an industrial estate including all internal roads. Works include (also refer to Table 2 for project overview details):

- Site establishment
- Bulk earthworks
- Piling
- Pavement Construction
- Minor enabling works e.g., locating/surveying/potholing/
- Utility adjustments and lead-in works
- Installation of services
- Pedestrian path construction
- Line Marking and signage
- Site Demobilisation

Burton Contractors have nominated Allied Traffic Management for the associated controls for this project.

Table 2 Project Overview

| ITEM                                                  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |              |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|
| Site:                                                 | Lot 52 DP 259135 and Lot 53 DP 259135<br>884-928 Mamre Road, Kemps Creek                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |              |
| Development:                                          | Demolition, and construction of an industrial estate comprising bulk earthworks, fit out and operation of a warehouse and distribution centre and ancillary office space with a total gross floor area of 39,161 m2, landscaping, staged 1 and 2 residual lot subdivision, construction of estate roads and intersection, site servicing and stormwater infrastructure.                                                                                                                            |                 |              |
| Road Classification:                                  | State Road – 0000536                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |              |
| Road Authority:                                       | Transport for New South Wales (TfNSW)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |              |
| Local Government:                                     | Penrith City Council (PCC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |              |
| Applicant:                                            | Altis Bulky Retail Pty Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |              |
| Project Dates and Duration:                           | Activities will be undertaken sequentially commencing mid - June 2024 with targeted completion being early - May 2025                                                                                                                                                                                                                                                                                                                                                                              |                 |              |
| Hours of Work<br>(consent condition B57)              | Activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Day             | Time         |
|                                                       | Earthworks and construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Monday – Friday | 7 am to 6 pm |
|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Saturday        | 8 am to 1 pm |
|                                                       | Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Monday – Sunday | 24 hours     |
| Works outside of the hours<br>(consent condition B58) | Works outside of the hours identified in condition B57 may be undertaken in the following circumstances:<br>(a) works that are inaudible at the nearest sensitive receivers;<br>(b) works agreed to in writing by the Planning Secretary;<br>(c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or<br>(d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm. |                 |              |

## 1.3.2 Site Location

The Site is a part of a master plan and is legally described as Lot 52-53 in DP259135. The Site is located approximately 8km north-west of the future Western Sydney International (Nancy-Bird Walton) Airport (WSA), 12km south-east of the Penrith CBD and 40km west of the Sydney CBD. The Site in its sub-regional context is shown in Figure 2 as well as the broader Mamre Road Precinct in which the Site lies.



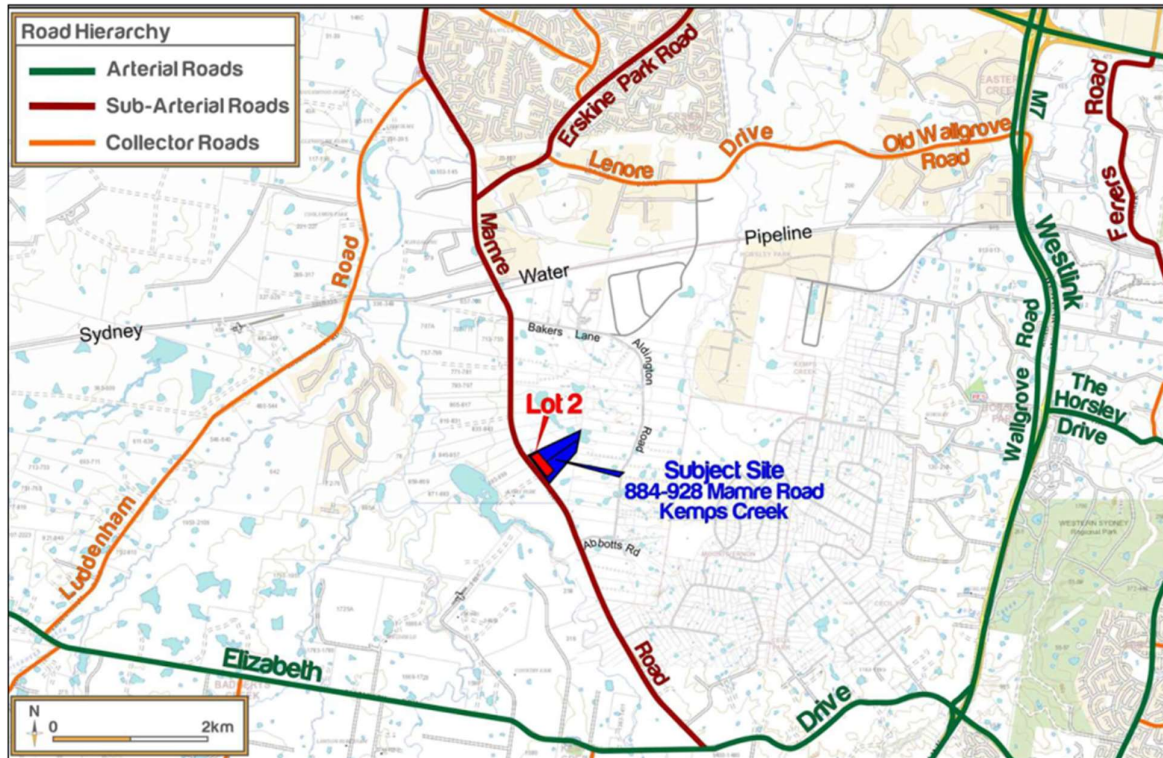


Figure 2 Location Map - Mamre Road, Kemps Creek

## 1.4 Authority Requirements

Conditions outlined in State Significant Development (SSD-17647189) and mitigation/management strategies described in the EIS comprise the Project's planning requirements. The related traffic and access control methods that are relevant to traffic management are shown in Table 3.

### 1.4.1 Conditions of Consent

Project Approval Conditions have been issued by the NSW Department of Planning Housing and Infrastructure (DPHI) for the State Significant Development (SSD-17647189). The Conditions which apply to construction traffic management are reproduced in **Table 3 SSD-17647189 Requirements**.

Table 3 SSD-17647189 Requirements

| CONDITION NO. | REQUIREMENT                                                                                                                                                                                                                                                             | REFERENCE IN CTMP                                                                                                                                                                                                                                                                           |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B1            | Prior to the commencement of earthworks 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: | Noted.                                                                                                                                                                                                                                                                                      |
| B1(a)         | be prepared by a suitably qualified and experienced person(s);                                                                                                                                                                                                          | Consultants from Allied Traffic Management are suitably qualified Traffic Engineers, with relevant "Prepare a Work Zone Traffic Management Plan" accreditation. Refer to <b>Section 1.2</b> Development of CTMP by a Suitably Qualified and Experienced Person for relevant qualifications. |

|       |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                         |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                         |
| B1(b) | be prepared in consultation with Council and TfNSW;                                                                                                                                                                                                                                                                                 | Consultation will be conducted with both Penrith Council and TfNSW, and evidence of the consultation is provided.                                                                                                                                                                                                                                       |
| B1(c) | detail the measures that are to be implemented to ensure road safety and network efficiency during construction;<br>(i) ensure access to the site and road safety and network efficiency is maintained, and<br>(ii) manage cumulative construction traffic from other concurrent construction works within the Mamre Road Precinct. | Refer to <b>Section 3.1</b> Approved Traffic Volume which outlines that the construction traffic will not have a detrimental impact on the network.<br>Traffic Guidance Schemes (TGSs) must be developed and approved by TfNSW for all works impacting public roads.                                                                                    |
| B1(d) | detail heavy vehicle routes, access, and parking arrangements;                                                                                                                                                                                                                                                                      | The detailed heavy vehicle routes can be found in <b>Section 2.4</b> Traffic Routes.<br>As for the access arrangement, during the bulk earthworks phase, construction vehicles will use the Site stage 1 access for access and egress to the Site. Refer to <b>Figure 6</b> Site Access Routes and <b>Figure 7</b> Site Access Routes for Truck Routes. |
| B1(e) | include a Driver Code of Conduct to: (i) minimise the impacts of earthworks and construction on the local and regional road network;<br>(ii) minimise conflicts with other road users;<br>(iii) minimise road traffic noise; and<br>(iv) ensure truck drivers use specified routes;                                                 | A driver Code of Conduct is a requirement of and included within this CTMP. The Drivers Code of Conduct (included in <b>Annexure G</b> ) addresses ways to minimise the impacts on the road network, with other road users, ensure truck routes are utilised and to manage pedestrian.                                                                  |
| B1(f) | include a program to monitor the effectiveness of these measures;<br>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 undertaken in accordance with <b>Section 4.1</b> Monitoring Program and Table 9 Monitoring & Reviews of CTMP.                                                                       |
| B1(g) | if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.                                                                                                                                                                                        | Referenced in <b>section 5</b> Consultation and Communication.                                                                                                                                                                                                                                                                                          |
| B2    | The Applicant must:                                                                                                                                                                                                                                                                                                                 | Noted.                                                                                                                                                                                                                                                                                                                                                  |
| B2(a) | not commence earthworks until the Construction Traffic Management Plan required by condition B1 is approved by the Planning Secretary; and                                                                                                                                                                                          | Noted.                                                                                                                                                                                                                                                                                                                                                  |

| B2(b)                       | implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary for the duration of earthworks and construction.                                                                                                                                                        | Noted.                                                                                                                          |     |      |                             |                             |                              |           |                 |          |  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------------------------|-----------------------------|------------------------------|-----------|-----------------|----------|--|
| B6                          | ensure road access to neighbouring properties at 930 – 966 Mamre Road is maintained for the duration of construction and operation, or alternative access is provided as agreed with the relevant landowner.                                                                                                             | Referenced at the end of <b>Section 2.3 &amp; 2.5</b> Site Access for Construction Vehicles and in the <b>DCOC Appendix G</b> . |     |      |                             |                             |                              |           |                 |          |  |
| B25                         | provide sufficient parking facilities on-site in accordance with the Mamre Road Precinct (MRP) Development Control Plan (DCP), including for heavy vehicles and for site personnel, to ensure that traffic associated with the development does not utilise public and residential streets or public parking facilities. | Referenced in <b>Section 2.3 &amp; 2.5</b> Site Access for Construction Vehicles.                                               |     |      |                             |                             |                              |           |                 |          |  |
| B57                         | Noise                                                                                                                                                                                                                                                                                                                    | Noted.                                                                                                                          |     |      |                             |                             |                              |           |                 |          |  |
|                             | Hours of Work;<br>The Applicant must comply with the hours detailed below unless otherwise agreed in writing by the Planning Secretary.                                                                                                                                                                                  | Refer to <b>Activity Table</b> (below) and <b>Section 2.2</b> Construction Hours.                                               |     |      |                             |                             |                              |           |                 |          |  |
|                             | <table> <tr> <th>ACTIVITY</th><th>DAY</th><th>TIME</th></tr> <tr> <td>Earthworks and Construction</td><td>Monday – Friday<br/>Saturday</td><td>7 am to 6 pm<br/>8 am to 1 pm</td></tr> <tr> <td>Operation</td><td>Monday – Sunday</td><td>24 Hours</td></tr> </table>                                                    | ACTIVITY                                                                                                                        | DAY | TIME | Earthworks and Construction | Monday – Friday<br>Saturday | 7 am to 6 pm<br>8 am to 1 pm | Operation | Monday – Sunday | 24 Hours |  |
| ACTIVITY                    | DAY                                                                                                                                                                                                                                                                                                                      | TIME                                                                                                                            |     |      |                             |                             |                              |           |                 |          |  |
| Earthworks and Construction | Monday – Friday<br>Saturday                                                                                                                                                                                                                                                                                              | 7 am to 6 pm<br>8 am to 1 pm                                                                                                    |     |      |                             |                             |                              |           |                 |          |  |
| Operation                   | Monday – Sunday                                                                                                                                                                                                                                                                                                          | 24 Hours                                                                                                                        |     |      |                             |                             |                              |           |                 |          |  |
| C1                          | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:                                                                                                                                                                                                       | Noted.                                                                                                                          |     |      |                             |                             |                              |           |                 |          |  |
| C1(a)                       | detailed baseline data;                                                                                                                                                                                                                                                                                                  | Refer to <b>Section 3.1</b> Approved Traffic Volumes.                                                                           |     |      |                             |                             |                              |           |                 |          |  |
| C1(b)                       | details of:                                                                                                                                                                                                                                                                                                              | Noted.                                                                                                                          |     |      |                             |                             |                              |           |                 |          |  |
| C1(b)(i)                    | the relevant statutory requirements (including any relevant approval, licence or lease conditions);                                                                                                                                                                                                                      | Refer to <b>Section 3.10.2</b> Road Occupancy License (ROL) and <b>3.10.3</b> Road Work Speed Zone Authorisation (SZA).         |     |      |                             |                             |                              |           |                 |          |  |
| C1(b)(ii)                   | any relevant limits or performance measures and criteria; and                                                                                                                                                                                                                                                            | Refer to <b>Section 2.6</b> Risk, Impacts and Mitigation Measures.                                                              |     |      |                             |                             |                              |           |                 |          |  |
| C1(b)(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;                                                                                                                                                | Refer to <b>Section 3.1</b> Approved Traffic Volumes.                                                                           |     |      |                             |                             |                              |           |                 |          |  |
| C1(c)                       | a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                                                                                                                                        | Refer to <b>Section 4.1</b> Monitoring and Reviews.                                                                             |     |      |                             |                             |                              |           |                 |          |  |
| C1(d)                       | a program to monitor and report on the:<br>(i) impacts and environmental performance of the development; and<br>(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;                                                                                                                   | Refer to <b>Section 4.9</b> Monitoring and Reviews.                                                                             |     |      |                             |                             |                              |           |                 |          |  |
| C1(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;                                                                                                                        | Referenced in <b>Section 4.3</b> Contingency Plan and in <b>Table 10</b>                                                        |     |      |                             |                             |                              |           |                 |          |  |

|            |                                                                                                                                     |                                                                                                                                                                                                                                                                                          |
|------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                                                                                                                     | A contingency plan is developed only when the CTMP is deemed not effective.                                                                                                                                                                                                              |
| C1(f)      | a program to investigate and implement ways to improve the environmental performance of the development over time;                  | 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 undertaken in accordance with <b>Section 4.1</b> Monitoring Program and <b>Table 9</b> Monitoring & Reviews of CTMP. |
| C1(g)      | a protocol for managing and reporting any:                                                                                          | Noted.                                                                                                                                                                                                                                                                                   |
| C1(g)(i)   | incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria); | Refer to <b>Section 5</b> Consultation and Communication.                                                                                                                                                                                                                                |
| C1(g)(ii)  | complaint;                                                                                                                          | Refer to <b>Section 5</b> Consultation and Communication.                                                                                                                                                                                                                                |
| C1(g)(iii) | failure to comply with statutory requirements; and                                                                                  | Refer to <b>Section 5</b> Consultation and Communication.                                                                                                                                                                                                                                |
| C1(h)      | a protocol for periodic review of the plan.                                                                                         | Refer to <b>Section 4.1</b> Monitoring and Reviews.                                                                                                                                                                                                                                      |
|            | <b>REPORTING AND AUDITING</b>                                                                                                       | Note.                                                                                                                                                                                                                                                                                    |
| Note       | Incident Notification, Reporting and Response                                                                                       | Referenced in <b>Section 3.5.7</b> Emergency Arrangements and Incident Response Procedure.                                                                                                                                                                                               |

## 1.5 Site Related Data

The site is located on the Eastern portion of 904-928 Mamre Road, and 884-902 Mamre Road Kemps Creek. The road is currently operating under a single lane in each direction (North/South) with unpaved shoulders. Mamre Road is line marked with a double dividing line (BB line) dividing the Northbound and Southbound trafficable lanes.

The road operates at a sign posted speed of 80km/h and has no kerb and gutter or dedicated footpaths constructed. This section of Mamre Road has no dedicated cycleway or street lighting (refer to **Figure 3 Northbound View of Mamre Road at number 928**).





Figure 3 Northbound View of Mamre Road at number 928

## 1.5.1 Existing Traffic Environment

*NOTE: Speed limits are variable as per legal road limit, construction/traffic conditions are constantly changing. Therefore, Signage and traffic restrictions/rules will change to reflect current surrounding conditions. Drivers must always pay attention to Signage and surroundings, especially when approaching and leaving site.*

### Mamre Road

Mamre Road is an arterial road which runs north-south between the Great Western Highway and M4, and Elizabeth Drive respectively. Near the Site, Mamre Road provides 1 traffic lane in each direction, and has a posted speed limit of 80km/h. The traffic speed is limited to 60km/hr along the commercial development areas on Mamre Road (from Bakers Lane Intersection on Mamre Road to 947 Mamre Rd, after the Access Logistics Park Development). Beyond this speed reduction area, the speed limit is as per signage on the road, conditions may change depending on new developments and change of traffic conditions.

The key roads in vicinity to the site are listed below:

### Erskine Park Road

Erskine Park Road is a sub-arterial road which generally runs north-south between the Great Western Highway and M4, and Mamre Road respectively; it also links east to the M7 via Lenore Drive. Erskine Park Road provides 2 traffic lanes in each direction, and has a posted speed limit of 70km/h.

### Bakers Lane

Bakers Lane is a local access that runs east-west (to the east of Mamre Road) and currently provides access for several rural residential, educational and retirement sites. Bakers Lane provides 1 traffic lane in each direction and has a posted speed limit of 60km/h, with School Zone restrictions (40km/h during school peaks) adjacent to the Trinity Primary School and Emmaus College.



## Elizabeth Drive

Elizabeth Drive is a sub-arterial road that runs east-west between Hume Highway and M7, and Mamre Road and The Northern Road respectively. Near Mamre Road, Elizabeth Drive provides 1 - 2 traffic lanes in each direction, and has a posted speed limit of 80km/h

## 1.6 Traffic Crash Statistics

A review of the TfNSW Centre for Road safety was conducted, and details shown below. In the data available between 2018 – 2022 it is shown that there have been quite a few crashes in the Penrith Local Government Area (LGA) area on Mamre Road. Across the Penrith LGA there was a total of 26 fatalities during this period, while serious and moderate injury account for 456 and 749 respectively. Whilst in regarding to Mamre Road from 2018-2022 there was a combined total of 2 fatalities out of the 26 in the PCC LGA.

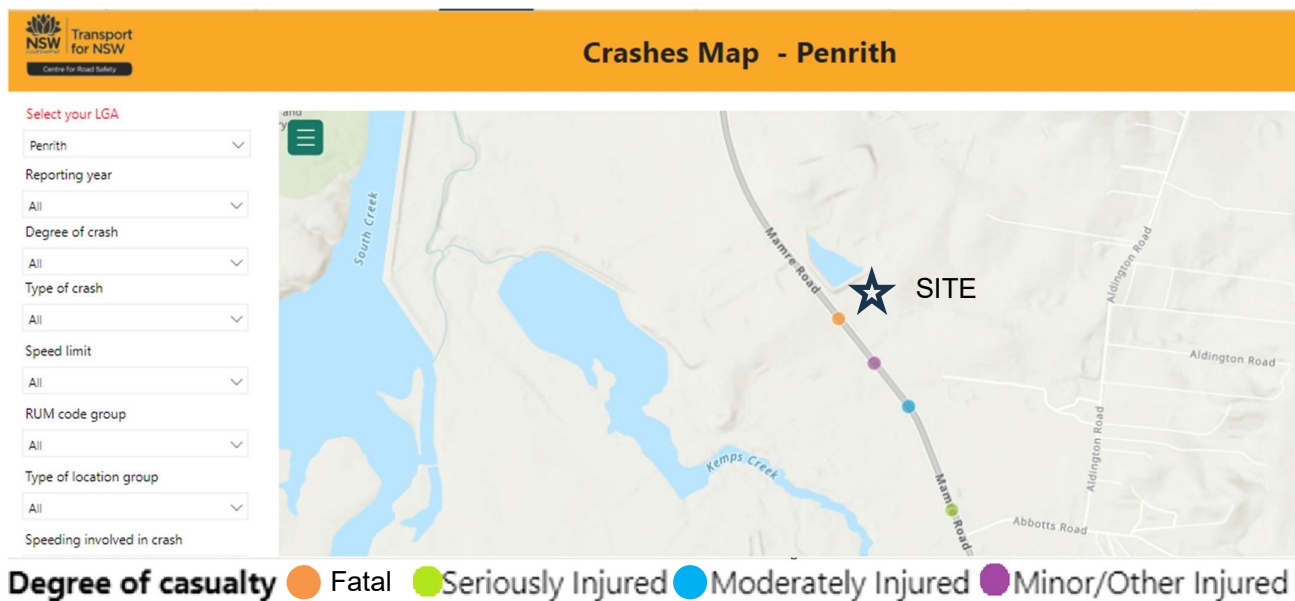


Figure 4 Crash Map – 884 Mamre Road, Kemps Creek

It is noted that the following crashes have been recorded during 2018-2020 near the construction site (refer to **Figure 4** Crash Map – 884 Mamre Road, Kemps Creek);

- Fatality – 1 Recorded
- Minor Injury – 1 Recorded
- Moderate Injury – 1 Recorded
- Serious Injury -1 Recorded (Additional 1 Recorded over 1km North near Bakers Lane)

## 1.7 Project Personnel Competencies

All persons undertaking these works have a duty of care to themselves, their employees, and all site users, to take all reasonable measures to prevent accident or injury.

This CTMP is part of the overall Construction Environmental Management Plan (CEMP) and provides details on how all road users considered likely to pass through, past, or around the work site will be safely and efficiently managed for the full durations of the site occupancy and works.

Burtens Contractors has prepared this CTMP in collaboration with Allied Integrated Management and associated controls for the site. Burtens Contractors will always ensure that during working hours, an appropriately accredited traffic control site supervisor will be available as well as ensuring that traffic controllers used on the project are experienced and have completed all prerequisite accredited courses.

### 1.8 Site Roles/Responsibilities

As per the CTMP Requirements it is important that the responsibilities of each role within the project team have been recognised and clearly defined to effectively address traffic management onsite and its surrounding roadways. In the below section the duties and obligations for each position are defined;

#### Contractor's Project Manager

The Project Manager shall:

- Liaise with TfNSW, and any other authorities for all aspects of the proposed work.
- Ensure all traffic control measures of the TMP are placed and maintained in accordance with this plan and the relevant acts, standards, and guidelines.
- Ensure suitable consultation with the affected stakeholders is always maintained.
- Arrange and/or undertake any necessary audits and incident investigations.
- Review feedback from various stakeholders and take appropriate corrective actions.

The Project Manager has the ultimate responsibility to ensure the CTMP is implemented for the prevention of injury and property damage to employees, contractors, sub-contractors, road users and members of the public. The Project Manager will ensure that all site personnel are fully aware of their responsibilities, and that procedures & work practices are followed correctly.

#### Contractor's Project Engineer / Site Engineer

The Project Engineer shall:

- Review the methodology for the work activities in consultation with subcontractors.
- Approve the commencement of all construction activities at each stage.
- Confirm when works are completed, and the next stage can commence.
- Undertake and submit any required inspection and evaluation reports.

#### Contractor's Project Site Supervisor:

The Project Site Supervisor shall:

- Coordinate work crews for all construction activities.
- Coordinate with the traffic control crews during the construction works and consult with the traffic management representative over any corrective action required to unsafe site conditions.
- Coordinate lighting, fencing and temporary amenities during the construction works.
- Instruct workers on the relevant safety standards, including the correct wearing of PPE.

## **Contractor's Environmental Site Representative (CESR):**

The Contractor's Environmental Site Representative shall:

- Advise on environmental matters for all construction activities.
- Liaise with the Principal and other relevant authorities on environmental matters.
- Ensure all personnel are aware of their roles and responsibilities regarding environmental matters.
- Overall responsibility for establishment, management, and maintenance of environmental control measures.
- Ensure environmental risks of works are identified and appropriate mitigation measures are implemented.

## **Traffic Control Site Supervisor**

The Traffic Control Site Supervisor is responsible for overseeing the day-to-day activities, and is, therefore responsible for the practical application of the CTMP, and will:

- Hold a current "Prepare Work Zone Traffic Management Plan" qualification and have a minimum 5 years of recent experience in traffic management on road construction site of equivalent complexity to this Project.
- Ensure that the approved traffic management measures are implemented and maintained in accordance with the approved plans.
- Carry out regular inspections of the traffic control measures to ensure that they are effective.
- Amend and update the plan, as required, to ensure that they remain current as the work progresses.
- Identify situations where traffic congestion, or unsafe conditions for vehicles, cyclists, pedestrian, and workers, are occurring and providing recommendations for improvement.
- Maintain current copies of the Traffic Management Plan and its various component plans, lane occupancy licenses and speed zone authorisation, and their controlled distribution.
- Keep records of the Traffic Controllers' qualifications and ensuring that they are current.
- Liaise and facilitate regular meetings with the principal, other authorities, and relevant parties on traffic management matters for the Site, maintain records of these meetings and making them available to the relevant persons.
- In conjunction with Community Relations, undertaking consultation with local businesses and residents.
- Provide induction on the traffic management measures to site personnel.
- Record and report on all traffic incidents.
- Prepare monthly reports on traffic management matters (TfNSW G10 specification Clause 4.7.2)

## **Traffic Controllers**

Traffic Controllers shall be used to control road users to avoid conflict with plant, workers, traffic cyclists and pedestrians, and to stop and direct traffic in emergency situations.

Traffic Controllers will:

- Operate in accordance with Traffic Control at Work Sites (TCAWS) Manual 6.1 and AS1742.3
- Be accredited as a minimum with 'Traffic Controller' and 'Implement TGS' Training.
- Take appropriate breaks as required by AS1742.3 and WHS regulations.

## **Workers and Subcontractors**

Workers and Subcontractors shall:

- Correctly wear all site-specific Person Protective Equipment (PPE) whilst on the work site.
- Comply with the requirements of the TMP and ensure that no activity is undertaken that will endanger the safety of other workers or the public.
- Enter and leave the site by approved access points and in accordance with safe work practices.

## Communications and Stakeholder Advisor

The Communications and Stakeholder Advisor shall:

Communications and Stakeholder Advisor provides community notifications on project updates/impacts (including but not limited to traffic changes / disturbances) as well as any notifications regarding project works which may affect any surrounding stakeholders. Notifications around traffic changes will be provided to the Communications and Stakeholder Advisor through the site team with dates and duration, it is the Communications and Stakeholder Advisor responsibility to create Notification letters/emails and communicate these impacts to all relevant stakeholders.

Communications and Stakeholder Advisor is required to consult with all community stakeholders regarding complaints/concerns on; Traffic, Noise/Disturbances and any other construction related complaints. Regarding Traffic related complaints the Communications and Stakeholder Advisor will notify the stakeholder that they issue is getting actioned. Complaints and Concerns may arise from Community Notifications, and it is the duty of the Communications and Stakeholder Advisor to relay this to the site team for deliberation.

The Communications and Stakeholder Advisor will provide the results of the planning with the site team and communicate the proposed solutions/resolutions ensuring all stakeholders are satisfied before giving the required personnel concurrence to address the problem.

## 1.9 Work Activities, Program

### 1.9.1 Key Work Activities

The overall civil construction component of the project involves the following activities:

- Site Establishment – A temporary site compound will be required that will include site office building, lunch facilities, storage containers and port-a-loo facilities. 15/10/2024 to 05/11/2024, approximately 15 Days (3 Weeks) (Est.)
- Earthworks – Bulk earth works activities associated with the subdivision and preparation for construction of internal roads 07/01/2025 to 22/05/2025, approximately 89 Days (17.8 Weeks)
- Pavement Construction – Development of internal roads associated with the sub-division 23/05/2024 to 06/09/2025, approximately 76 Days (15.2 Weeks)
- Installation of services – Installation of utilities within the subdivision 07/09/2025 to 15/02/2026, Approximately 113 Days (22.6 Weeks)
- Finishing works – Upon completion, the site compound would be removed, and the area would be revegetated where required to return the area to its natural state prior to site establishment. This stage includes the construction of footpaths and all landscaping requirements 16/02/2026 to 27/03/2026, Approximately 27 Days (3.9 Weeks).
- Construction activities shall be carried out progressively with each stage requiring different logic to ensure activities are carried out efficiently whilst minimising impact on traffic / residents / businesses.

## 1.9.2 Plant and Equipment Requirements

Throughout the duration of the project, plant and equipment items that may be used include:

*Table 4 Plant and Equipment Requirements*

| Plant and Equipment Items                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Franna Crane or Small Excavator Rig Crane</li> <li>• Truck Mounted Drill Rig</li> <li>• Large Trucks for removal of material</li> <li>• Tippers for delivery &amp; removal of equipment.</li> <li>• Vacuum Trucks</li> <li>• Concrete Trucks/Pumps</li> <li>• Piling Rigs</li> <li>• Concrete Form Work</li> <li>• Large excavator</li> <li>• Pole grab truck</li> </ul> | <ul style="list-style-type: none"> <li>• Asphalt paving machines</li> <li>• Profiler</li> <li>• Portable Roller/Compactor</li> <li>• Power Generator</li> <li>• Elevated Work Platform</li> <li>• Traffic Control Vehicles</li> <li>• Hand Tools &amp; Jack Hammers</li> <li>• Temporary Fencing &amp; Barriers</li> <li>• Permanent and Temporary Signage</li> <li>• Variable Message Boards</li> <li>• Boring machine</li> </ul> |

## 1.9.3 Work Program

The works activities are expected to commence for Burton Contractors from mid-October 2024 with targeted completion being early 2026. The program of works will be updated regularly throughout the duration of the project to reflect any necessary changes. Planned start date for Burtons Civil Engineering pending all approvals is mid-October 2024.

## 2 Proposed Works and Staging

### 2.1 Overview of Works

#### 2.1.1 Traffic Staging for Site Activities

The project will be divided into 5 key stages during the internal sub-division works. These stages will occur sequentially as shown in **Table 5 Traffic Staging** (below):

*Table 5 Traffic Staging*

| Stage                                                                                                                                                                           | Dates                                                                                                            | Vehicle Movements (Daily)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site Establishment</b><br>A temporary site compound will be required that will include site office building, lunch facilities, storage containers and port-a-loo facilities. | 15/10/2024 to<br>05/11/2024<br>Approximately 15<br>Days (3 Weeks)                                                | The expected construction vehicle movements per day for this stage is <b>20 Light Vehicle Movements</b> and <b>6 Heavy Vehicle Movements</b> . Site Establishment has now been completed.                                                                                                                                                                                                                                                                                                                |
| <b>Earthworks</b><br>Bulk earth works actives associated with the subdivision and preparation for construction of internal roads                                                | 06/11/2024 to<br>25/03/2025<br>(includes Christmas<br>Shut Down Period)<br>Approximately 89<br>Days (17.8 Weeks) | The expected construction vehicle movements for this stage is 40 light vehicle movements and 26 heavy vehicle movements. Earthworks has commenced with access via the Stage 1 access outlined in Figure 9. Following receipt of the s138 approval access will be via Berriwerri Drive off Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised. The largest vehicle will be 20m Articulated Vehicle accessing the site via Berriwerri Drive off Darrabarra Avenue. |
| <b>Pavement Construction</b><br>Development of internal roads associated with the sub-division                                                                                  | 26/03/2025 to<br>14/07/2025                                                                                      | The expected construction vehicle movements per day for this stage is <b>40 Light Vehicle Movements</b> and <b>20 Heavy Vehicle</b>                                                                                                                                                                                                                                                                                                                                                                      |

|                                                                                                                                                                                                                                                                                         |                                                                                                        |                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                         | Approximately 76 Days (15.2 Weeks)                                                                     | <b>Movements.</b> The largest vehicle will be 20m Articulated Vehicle accessing site via Berriwerri Drive off Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised.                                                                                                                               |
| <b>Installation of services</b><br>Installation of utilities within the subdivision                                                                                                                                                                                                     | 15/07/2025 to 18/12/2025<br>Approximately 113 Days (22.6 Weeks)                                        | The expected construction vehicle movements per day for this stage is <b>40 Light Vehicle Movements</b> and <b>8 Heavy Vehicle Movements</b> . The largest vehicle will be 20m Articulated Vehicle accessing site via Berriwerri Drive off Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised.  |
| <b>Finishing works</b><br>Upon completion, the site compound would be removed, and the area would be revegetated where required to return the area to its natural state prior to site establishment. This stage includes the construction of footpaths and all landscaping requirements | 19/12/2025 to 10/02/2026<br>(includes Christmas Shut Down Period)<br>Approximately 27 Days (3.9 Weeks) | The expected construction vehicle movements per day for this stage is <b>40 Light Vehicle Movements</b> and <b>20 Heavy Vehicle Movements</b> . The largest vehicle will be 20m Articulated Vehicle accessing site via Berriwerri Drive off Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised. |

Refer to **Figure 5 Total Vehicle Movement (Discipline / Month)** for Total Vehicle Movements from October 2024 to early 2026. Also, **Figure 5 Total Vehicle Movement (Discipline / Month)** is Inclusive of Light and Heavy Construction Vehicle Traffic and forecast. The numbers above each bar are a daily average throughout the month specified.

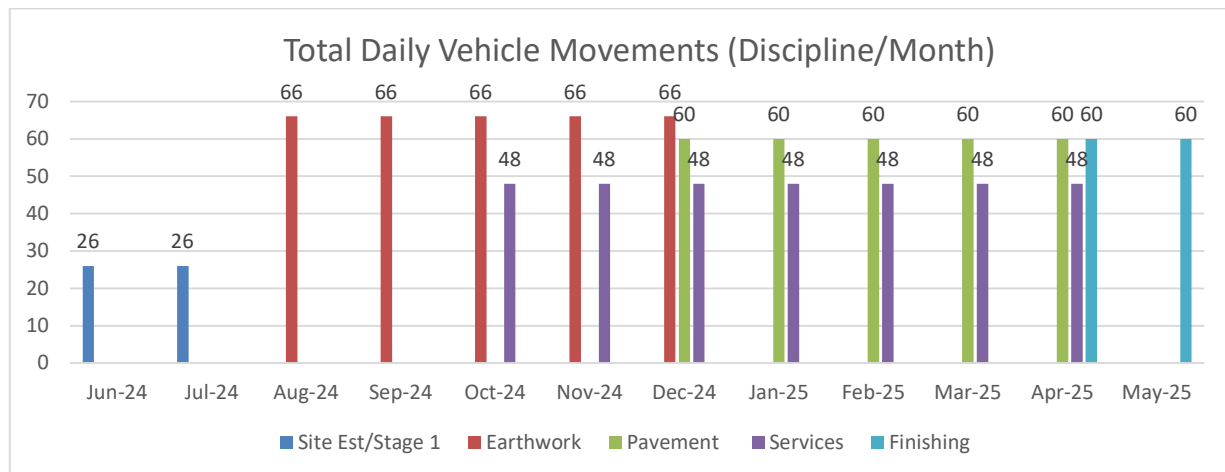


Figure 5 Total Vehicle Movements (Discipline / Month) – Inclusive of Light and Heavy Construction Vehicle Traffic

## 2.2 Construction Hours

To practically minimise disruption to traffic, it is intended that once the site be established, most activities can take place behind safety barriers. Any activity that requires additional lane closures or impacts on Mamre Road will take place outside of clearway peak times and under specific occupancy hours as per the approved Road Occupancy Licences (ROLs).

Based on the information provided to Allied Traffic Management, a summary of the construction hours is shown in which is in accordance with the Council guidelines and SSD approvals (see below table 6).

Table 6 - Hours of Work

| Activity                    | Day                       | Time         |
|-----------------------------|---------------------------|--------------|
| Earthworks and Construction | Monday – Friday           | 7 am to 6 pm |
|                             | Saturday                  | 8 am to 1 pm |
|                             | Sunday<br>Public Holidays | No work      |

It is expected that no work related to construction will take place after the above specified hours. In the event that working outside of regular business hours becomes necessary, Barings will apply for an Out of Work Hours Permit from the Planning Secretary to request authorization for these project works. The following kinds of work could be done after the suggested standard hours:

- Delivering large plants or structures that the police or other authorities decide to need special arrangements to be transported along public roads;
- Emergency work to prevent environmental harm or loss of life.
- Maintenance and repairs of public infrastructure when work cannot be completed during regular business hours due to worker safety concerns, vital service disruptions, or other factors.
- Public infrastructure projects that are backed by the impacted community and shorten project duration.
- Works in which an advocate shows and explains why it is necessary to run outside of the advised regular business hours.

## 2.3 Traffic Routes/Site Access

During the lifetime of the project, all construction personnel must use the primary access via Darrabarra Avenue to access the Site. The primary construction will be staged to accommodate the construction staging. The following staging is show in the **Annexure C** Traffic Staging Plans;

- Stage 1 Works – 8 weeks;  
(Maximum Daily movements; 3 HV & 10 LV in the AM and 3 HV & 10 LV in the PM, refer to **Figure 5** Total Vehicle Movement (Discipline / Month);
  - a) Site Establishment
  - b) Clearing and Grubbing
  - c) Demolition
  - d) Dam Dewatering
  - e) Utilization of the Existing Access off Mamre Road.

Utilization of the existing access will allow the completion of activities described in items a) - d) outlined above while approvals are sought for access via Darrabarra Avenue. Upon approval to install project access via Darrabarra Avenue, all traffic will be directed via this entry off Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised.

- Stage 2 Works – 46 weeks;
  - Bulk Earthworks
  - Retaining Walls
  - Bio-Basins
  - Utilities (sewer, stormwater, electrical, communications and potable water)
  - Pavement Construction

During these works, all project access will be via Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised.

- Stage 3 Works – 13 weeks;
  - Landscaping
  - Fencing, Signage and Line marking



During these works, all project access will be via Darrabarra Avenue. At no point are two access points into the Site proposed to be utilised.

The largest vehicle to typically access the Site would be a 20 m Articulated Vehicle (AV), which the permanent access driveway via Darrabarra Avenue will accommodate. Further, construction management protocols will require that any vehicle entering the Site access road will have right of way compared to vehicles exiting, to ensure that there is no queuing on Darrabarra Avenue. Access to emergency vehicles shall be always maintained. An emergency vehicle parking space will be always maintained and left vacant unless occupied by an emergency vehicle.

Any construction vehicles required to move around the construction site on a regular basis and throughout the works will not be permitted to queue or park within the surrounding streets or work area unless permitted otherwise. The arrival of trucks will be staggered to prevent the possibility of queuing of trucks at any time.

Burtens will Endeavor to minimise the impact of these movements by planning works requiring multiple movements as well as deliveries to be between 10am to 3pm, outside of peak traffic periods.

It is also noted that no construction vehicles should obstruct any pedestrian crossings or footpaths, and no construction vehicles should layover/obstruct trafficable lanes without an approved ROL. Construction gate access will be as per construction staging drawing. In addition, no traffic controllers should stop general traffic to allow construction vehicles to enter or exit, without any approved ROL's.

Dedicated construction vehicle routes will be developed with the objective of providing the shortest and safest distance to/from the work site. Truck movements to and from site shall be restricted to these designated routes and movements to ensure minimal impact on local streets within the vicinity of the site. These truck routes will need to be reviewed if there are any changes to traffic conditions. Access points and procedures shall be identified and clearly communicated to all drivers and suppliers prior to arriving to site. Information on the approved access routes and locations for all construction vehicles shall be provided through onsite toolbox talks, pre-start meetings and project inductions prior to work commencing.

All work vehicles shall:

- Enter and leave site in a forward direction using an accepted Vehicle Movement Plan (VMP) (refer to **Figure 8 and 9 in Section 2.5 VMP**).
- Decelerate slowly and signal their intention by indicator to leave the traffic stream.
- Activate the vehicles rotating beacon on approach to and departure from work site.
- Wait until there is a gap in traffic before leaving the construction site or until given clearance by traffic controllers to exit the work area.
- All Vehicles are required to adhere to the local road rules, including but not limited to;
  - Adhere to the Drivers Code of Conduct (DCOC);
  - No illegal manoeuvres when entering or exiting the site. Note, failure to adhere to site rules and DCOC will result in the following:
    - Instant dismissal
    - Personal fine of **\$8,000** from Department of Planning, Housing and Infrastructure (DPHI);
    - Company fine of **\$15,000** from DPHI;
    - Not limited too but including the following;
      - No right turns into Abbotts Road.
      - All Vehicles must turn left in and out of the project/s whilst stage 1 access is implemented
      - No U-turns/Crossing lanes when exiting.
- Radio ahead to advise of approach to ensure work site space is available.
- Ensure road access to neighbouring properties along Darrabarra Avenue and Mamre Road are maintained for the duration of construction and operation, vehicles are not to compromise/Block neighbour residence ingress into their property. At no point are two access points into the Site proposed to be utilised.

## 2.4 Vehicle/Truck Routes

It is expected that all heavy vehicles (HV) will access the Site via the approved TfNSW Restricted Access Vehicles (RAV) Map, regardless of vehicles size. The construction access to Berriwerri Drive shall utilise the signalised intersection at Darrabarra Avenue and Mamre Road. The access routes are shown in **Figure 6 Site Access Routes** ).

Please note that at the time of this CTMP submission, Darrabarra Avenue & Berriwerri Drive are not shown on the RAV Map, however, will be used as primary site access. At no point are two access points into the Site proposed to be utilised.

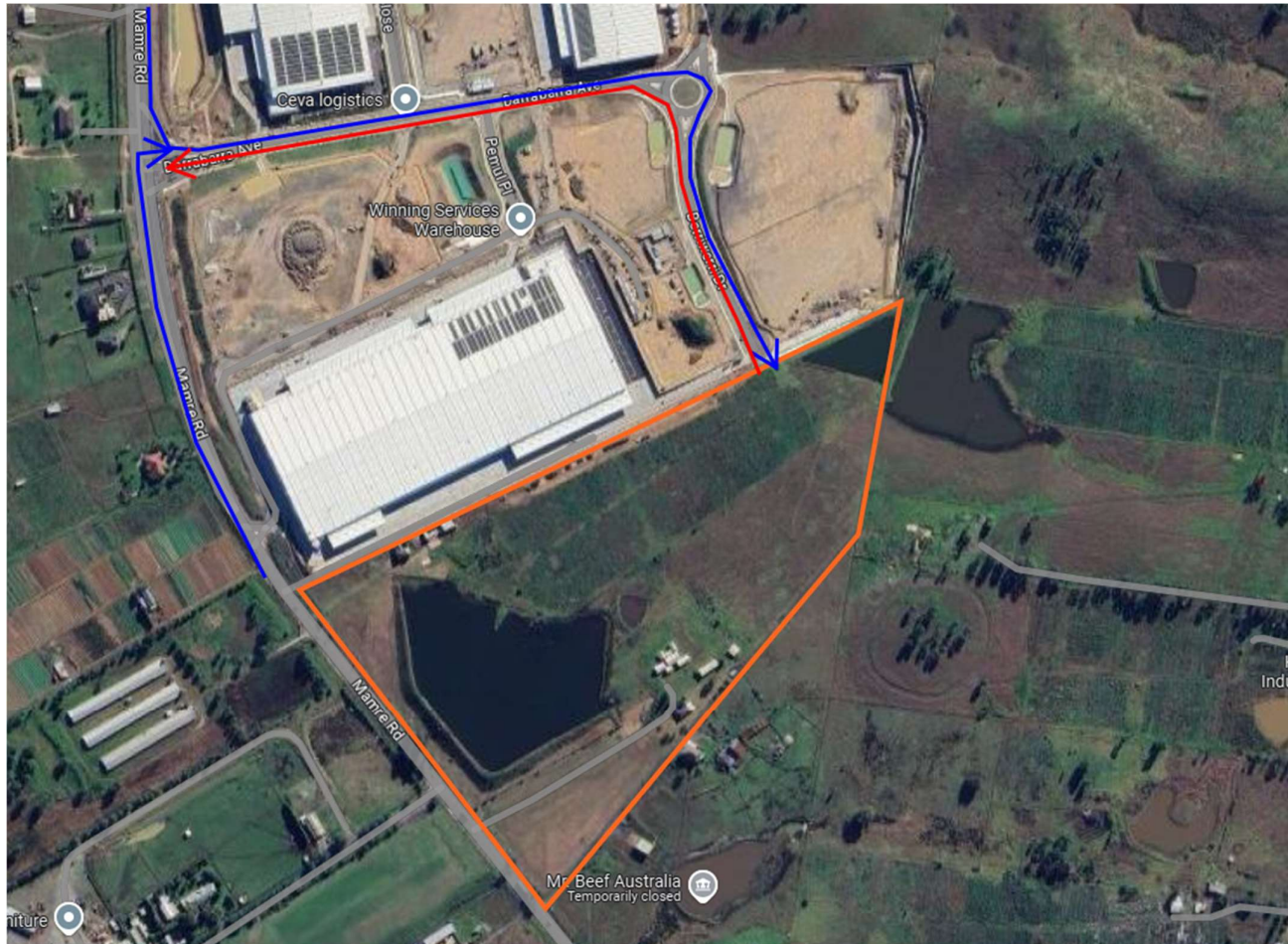


Figure 6 Site Access Routes )

It is anticipated that all heavy vehicles will access Site via the following routes:

### Arrival Trips (refer to Figure 6 and Figure 7)

- Route 1: From M4 Western Motorway, southbound along Mamre Road and left onto Darrabarra Avenue towards the sites primary access.
- Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then south along Mamre Road and left onto Darrabarra Avenue towards the sites primary access.
- Route 3: Entry to site when Heading North on Mamre Road
  - With the signalized intersection becoming operational, there will be a designated right turn lane from Mamre Road onto Darrabarra Avenue.



## Departure Trips (refer to Figure 6 and Figure 7)

- Route 1: From the Site out onto Berriwerri Drive, left onto Darrabarra Avenue towards the traffic lights, then left or right onto Mamre Road.

A copy of the approved routes will be distributed by Burton Contractors 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.

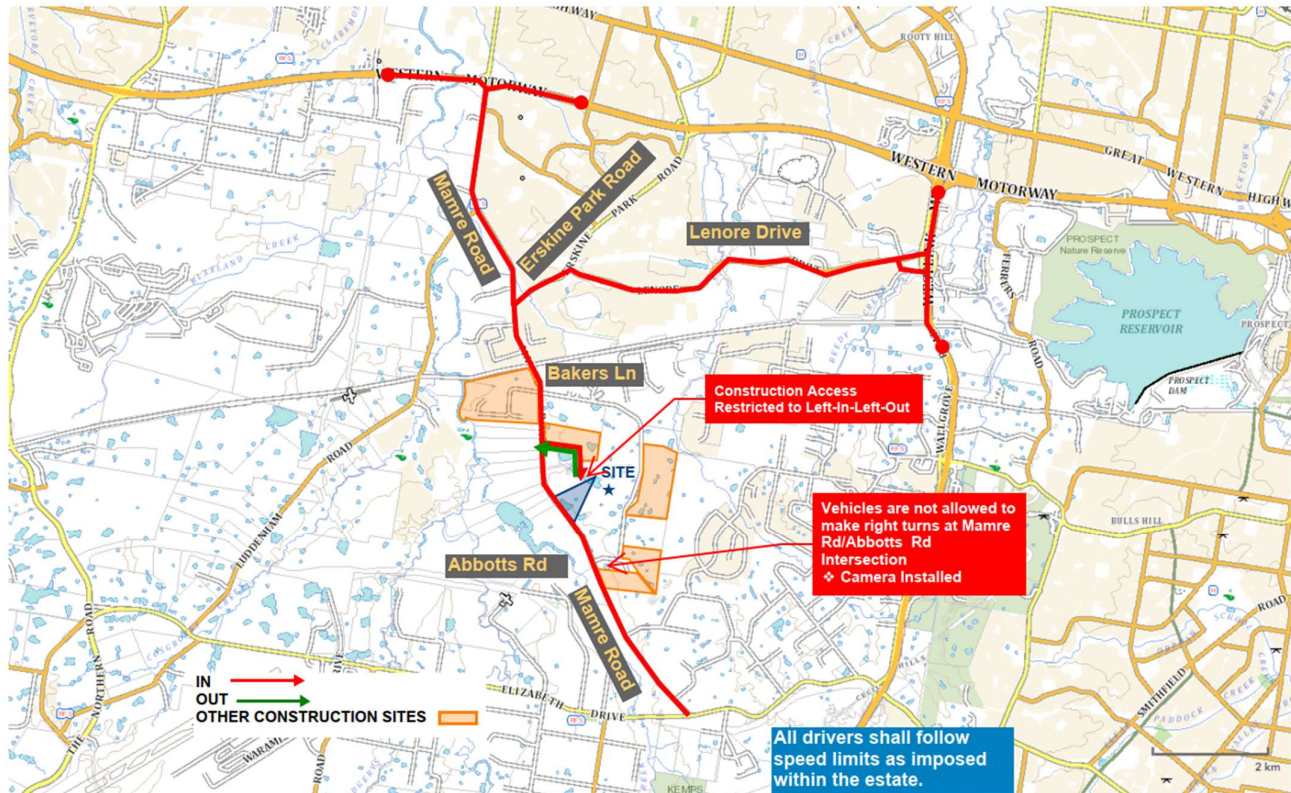


Figure 7 Approved Traffic Routes (RAV)

NSW Planning has serious concerns that road safety is being impacted by construction related trucks using traffic routes not approved by the SSD consent.

There will be monitoring by authorities to identify trucks not using the approved truck route, specifically the requirement for left turns only from Abbotts Road onto Mamre Road & Left in, Left out whilst stage 1 access is utilized.

If any trucks/vehicles related to the SSDs are observed turning right from Abbotts Road onto Mamre Road, or otherwise in breach the approved truck/vehicle routes in the Construction Traffic Management Plan (CTMP), NSW Planning will consider taking enforcement action which may include issuing penalty notices to the **\$15,000** to the Company and/or **\$8,000** to the individual. This includes all vehicles and haulage contractors. Signage of these penalties will be displayed onsite as a reminder to all individuals.

Any individuals/contractors found in breach of Mamre Road Precinct (MRP) rules and regulations, Driver Code of Conduct (DCOC) as well as the approved route demonstrated in this CTMP, will be banned from entering the construction site, both their contact details and vehicle registration will be recorded and passed to the Department of Planning, Housing and Infrastructure (DPHI). Information of the person and their vehicle will be distributed to adjacent construction sites as a notice to ensure they are aware of all offenders.



## 2.5 Site Access for Construction Vehicles

During Construction, the primary access will be via Figure 8 once the intersection becomes signalized. While this intersection is becoming signalized, access will be via figure 9. At no point are two access points into the Site proposed to be utilised.

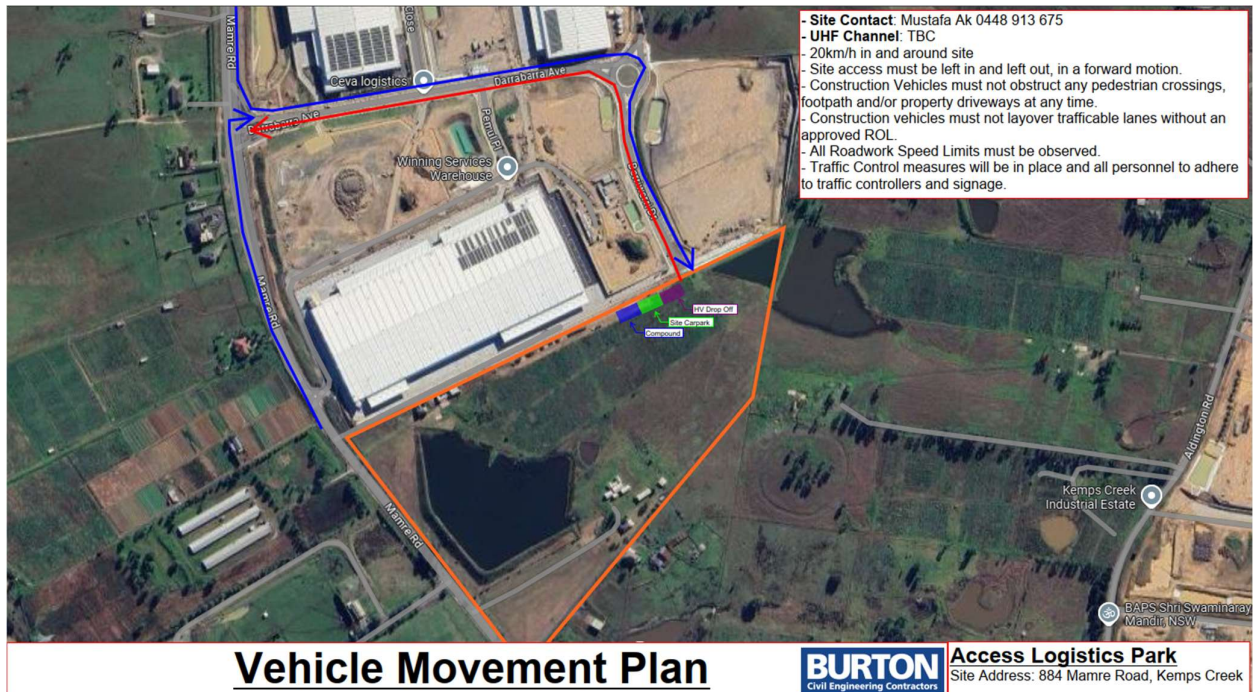


Figure 8 VMP – Permanent Site Access

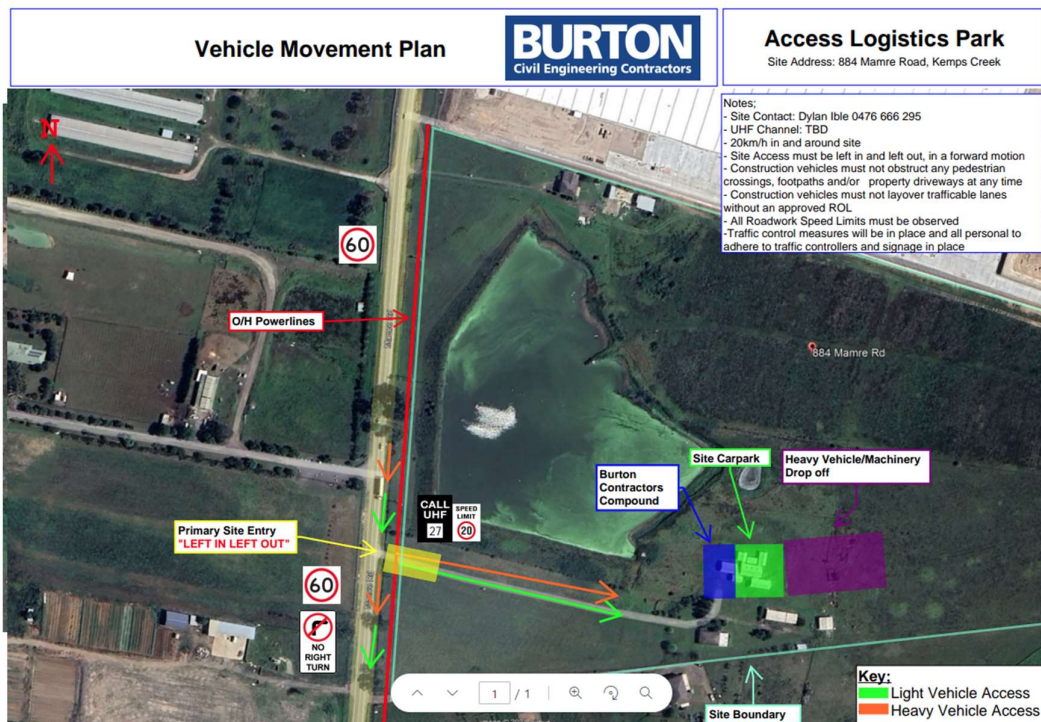


Figure 9 VMP - Left-in / Left out Stage 1 Access

Upon completion of the site access via Berriwerri Drive, the temporary site access utilizing existing driveways along Mamre Road will be decommissioned.

In addition, a roundabout is proposed to the site's south-east, providing connectivity to the proposed local road network east of Mamre Road and 155-217 Aldington Road (Fraser's) which is currently under assessment (SSD-17552047) to the east. The northward connection is anticipated to provide direct connectivity to the Mamre Road / Mirvac Access intersection (proposed under SSD-104481), which is intended to form a key access intersection for the Mamre Road Precinct for full range of movements to Mamre Road. Should the traffic access/conditions relevant to the development site change, this CTMP will be updated accordingly to reflect and accommodate those changes.

## 2.5.1 Car Parking

As per Development Consent condition B25, sufficient parking facilities will be provided in accordance with the MRP DCP for all vehicles and personnel on site. This will ensure all construction traffic does not utilise public and residential streets or public facilities for parking. Burtons will also encourage carpooling and other mechanisms to reduce site associated traffic and the demand for parking.

## 2.6 Risks, Impacts and Mitigation Measures

This CTMP applies to all parts of the construction works. The scope includes:

- The provision for the safe movement of public traffic
- The protection of workers from passing traffic
- The provision for access to properties located within the vicinity of the works
- The provision of traffic controllers and safe operating locations
- The installation of any temporary signs, road markings, lighting, and safety barriers
- The on-site management of construction traffic at the work site

Mitigation and control measures will be implemented to avoid, minimise or manage impacts on traffic and cyclists. A summary of the key areas of potential impact and the proposed measures to reduce these impacts are discussed in the following pages. These include the following:

- Traffic Volumes and Road Network Capacity
- Site Access for Construction Vehicles
- Cumulative Impacts on Adjoining Road Network
- Parking and Property Access
- Public Transport
- Heavy and Oversize Vehicles
- Emergency Vehicle Access
- Pedestrians and Cyclist Access
- School Zones
- Waste Collection
- Special Events

During the work hours, whilst traffic control is in place, appropriate and adequate signage and authorised personnel will be always in place to ensure the safe movement of traffic, cyclists around the work area. At the end of each shift, any temporary or inappropriate signage and devices will be removed, and the road returned to out of hour's operations as per the approved TGS.

## 2.7 Site Contact

Refer to the below Table 7 for Principal Contractor Representatives.

*Table 7 Principal Contractors Representatives*

| ROLE / RESPONSIBILITY                                             | COMPANY                        | NAME          | CONTACT NUMBER | CONTACT EMAIL                          |
|-------------------------------------------------------------------|--------------------------------|---------------|----------------|----------------------------------------|
| Project Manager                                                   | Burton Contractors             | Mustafa Ak    | 0448 913 675   | Mustafa.ak@burtoncontractors.com.au    |
| Project Engineer                                                  | Burton Contractors             | Luke Wood     | 0418 714 678   | luke.wood @burtoncontractors.com.au    |
| Project Site Supervisor                                           | Burton Contractors             | Tom Weber     | 0400 150 861   | tom.weber@burtoncontractors.com.au     |
| Safety Officer                                                    | Burton Contractors             | Faten Samaan  | 0407 954 102   | faten.samaan @burtoncontractors.com.au |
| Contractor's Environmental Site Representative (CESR)             | Burton Contractors             | Sul Ghani     | 0499 182 768   | sul.ghani@burtoncontractors.com.au     |
| Traffic Manager                                                   | Burton Contractors             | John Bailey   | 0447 783 383   | john.bailey@burtoncontractors.com.au   |
| Traffic Management Representative                                 | Allied Traffic Management      | Nass Chami    | 0427 876 539   | nass.c@alliedmanagement.com.au         |
| Certified Professional in Erosion and Sedimentary Control (CPESC) | OCHRE Environmental Management | Bradley Cole  | 0407 782 830   | brad@ochreenvironmental.com.au         |
| Communications and Stakeholder Advisor                            | Burton Contractors             | Joshua Macree | 0429 528 430   | joshua.Macree@burtoncontractors.com.au |

The site induction will include a list of key contacts for all staff and contractors and will also be displayed in the site shed.

## 2.8 Work Zones

During All Construction phases, a Work Zone isn't necessary; all construction vehicles can park/stop on the Site.

If temporary traffic control measures on public road/road related area are needed, the contractor will secure a Road Occupancy Permit (ROP) from the TfNSW. If excavation and/or road opening works are necessary on a public road, the contractor must obtain the appropriate Road Opening Permit. Additionally, if any works on the verge are needed, a Road Opening permit should be submitted to Council.

### 3 Traffic Management Methodology

#### 3.1 Approved Traffic Volumes

The traffic report (Ason Group Ref: P1509r03) supporting the SSDA submission, outlined the following relevant data regarding future operational traffic volumes associated with the Site. See below approved traffic volumes as per ASON Traffic Data;

- AM Peak 195 movements per hour (movements, in & out combined)
- PM Peak 203 movements per hour (movements, in & out combined)
- Daily 973 movements per day (movements, in & out combined)

For this report, 1 truck delivery is equal to 1 inbound movement plus 1 outbound movement which equals to a total of 2 movements.

As per Section 6.8.12 of the Environmental Impact Statement (EIS); It is expected that construction traffic will be substantially less than the future operational traffic and will therefore not have any unacceptable impacts on the surrounding road network more broadly. In the event that construction volumes are in excess of the future operational traffic volumes associated with the Site, then a separate impact assessment shall be undertaken. The results of the impact assessment shall determine how the site construction traffic volumes will be managed during the project. The application of mitigation mechanisms to resolve impacts on traffic conditions will be assessed from both statistical data and physical implications. Adjustments can be made with site deliveries being scheduled for out of peak hours, as well as considerations to the staging of the construction program can be made to minimise impacts/congestion on Mamre Road.

#### 3.2 Earthworks and Construction Vehicle Traffic Generation

The anticipated vehicle movements generated by the construction of the Site has considered staff, plant, equipment, and haulage movements. The AM and PM peak periods have been assessed from the peak overall volumes during the morning and afternoon network peaks and are not representative of the peak Light Vehicles (LV) or Heavy Vehicles (HV) volumes during a single one-hour period. The single highest peak for each LV and HV is as follows:

##### AM Peak (Maximum Peak movement and is not a reflection of the average traffic movements)

- 87 LV Movements (06:00 – 07:00) - 9 HV movements in the AM during this same period, resulting in a combined 96 movements.
- 43 HV Movements (08:00 – 09:00) - 17 LV movements in the AM during this same period, resulting in a combined 60 movements.

##### PM Peak (Maximum Peak movement and is not a reflection of the average traffic movements)

- 96 LV Movements (17:00 – 18:00) - 48 HV movements in the PM during this same period, resulting in a combined 144 movements.
- 48 HV Movements (13:00 – 14:00) - 21 LV movements in the PM during this same period, resulting in a combined 69 movements.

It is noted that at the State Significant Development (SSD) assessment stage that a peak daily traffic generation of 973 movements per day, with 82 movements during the peak hour, was assessed. Therefore, it is evident that the construction traffic forecast is consistent with that assessed during the SSD stage.



## 3.3 Cumulative Impacts on Adjoining Road Network

Assessment shows that there are ongoing sub-division works that may cause a cumulative impact or potential clashes with other construction activities in this area. It is vital that close liaison is maintained with the project team and TMC to ensure upcoming closures do not conflict with any other works that may be planned during the life of the project.

## 3.4 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**

Construction traffic will use the Site's primary access to access the work area for the works, connecting to the wider network via Mamre Road. 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. A part of this management of deliveries is capture in the Drivers Code of Conduct (attached in **Annexure G** Driver Code of Conduct).

- **Safety During Construction**

Safety to motorists and pedestrians throughout the area will be maintained during construction through the preparation and execution of Traffic Guidance Schemes. A range of Traffic Guidance Schemes are to be implemented by the contractor Construction Traffic Management Plans, 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. Traffic Guidance Schemes shall be monitored and updated accordingly throughout the project.

- **Reporting**

Reporting and monitoring of movements during peak periods are to be undertaken weekly by a Burton Contractor personnel / representative 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. The traffic counts will be compared to Peak AM and PM timeframes as well as the daily approved movements. Adjustments will be made to deliveries and traffic movements associated to site to ensure we maintain approved traffic volumes.

- **Mamre Road Precinct Workshops**

Project Manager and/or Communications and Stakeholder Advisor are to attend a Mamre Road Precinct Workshop/s to assess the current and future cumulative traffic and impact issues. This Consultation will be an open forum for stakeholders to voice their concerns/issue, information gathered on this workshop will be assessed and reviewed against current plans and management plans. After Deliberation of information from the working group, Burtons will update our CTMP and provide a community response to any issues with a resolution. A consultation number will also be provided to the community as an extension of this workshop. Any concerns/issue brought to our attention prior/during and after the workshop will contribute to progressive adaptation of our plans and management plans. The information from the workshops will also be integrated into inductions, toolboxes, safety notices and our Drivers Code of Conduct.

- **Traffic Monitoring**

There are no existing Closed-Circuit Televisions (CCTV) cameras or gantry mounted Variable Message Boards (VMS) assets operated by TCM or TfNSW within the project boundary and the immediate section of Mamre Road. CCTV and VMS Board may be adopted by the Development to monitor and regulate traffic in and out of site.

The Police/Road Authorities may also be present and/or requested at sporadic times to monitor and regulate traffic on Mamre Rd.

## 3.5 Vehicle/Traffic Management

### 3.5.1 Site Induction

All staff employed on the site by Burton Contractors (including sub-contractors and suppliers) will be required to undergo a site induction. The induction will include approved access routes to and from the construction site for site staff and delivery vehicles as well as standard environmental, Work, Health and Safety (WH&S), driver protocols and emergency procedures. All personnel employed on the Access Logistics Estate will perform their duties in accordance with the requirements of this CTMP and in compliance with the manuals and procedures outlined, and any specific Project Plans or instructions.

### 3.5.2 Driver Training including Heavy vehicle Drivers

All light vehicles (LV) and heavy vehicles (HV) will be made fully aware the worksite traffic management arrangements and site access requirements including specific construction driver training to understand route constraints, expectations, safety issues, human error, and its relationship with fitness for work and chain of responsibility duties, and to limit the use of compression braking. Driver training will consider current best practice and information. Daily briefings will be provided to drivers on routes, potential changes and impacts on the routes in the form of toolbox talks. All drivers will take the mandatory Access Logistics Estate project specific DCOC (refer to **Annexure G** Driver Code of Conduct) for Training.

### 3.5.3 CTMP Training and Awareness

All employees, contractors and utility staff arriving and working on site will undergo site induction training relating to traffic and transport management issues. This induction training addresses elements related to traffic management including:

- Key site Access Routes (Refer to **Section 2.4** Traffic Routes)
- Existence and requirements of this Plan
- Relevant legislation
- Roles and responsibilities for traffic management
- Prior to any drivers attending the site, they will be issued and become familiar with the DCOC. A copy of the DCOC included in **Annexure G** Driver Code of Conduct

**Understanding the Penalties (penalty notices to the company at \$15,000 and/or \$8,000 to the individual) for not adhering to assigned routes and DCOC (refer to Annexure G Driver Code of Conduct)**

### 3.5.4 Driver Code of Conduct (DCOC)

Prior to any drivers attending the site, they will be issued and become familiar with the Driver Code of Conduct. The Driver Code of Conduct will be sent via email to all drivers Burton/Subcontractors and suppliers. A confirmation will be requested by email by the recipient confirming this will be distributed to all drivers prior to site attendance/delivery. DCOC will be integrated into our induction form with sign off saying that the person has read and understood the requirements/procedures. Additionally, it will be incorporated regularly in our Toolboxes and morning prestart to reinforce the DCOC.

A copy of the DCOC is included in **Annexure G** Driver Code of Conduct.

### 3.5.5 Parking and Property Access

Parking will be located within the internal development accessed through the Primary site entry on Mamre Rd. Property access to all properties will always be maintained. Early consultation with any impact's entities will occur in advance of any planned disruptions during the different stages of construction. There are no forecasted changes to existing parking facilities or property access during construction.

### 3.5.6 Public Transport

In accordance with the TfNSW G10 specification consultation with the local bus companies will take place every 2 months as a minimum and provide an update of upcoming traffic switches or events that will affect the current bus pickup points and bus timetables.

Bus route numbers 9057 and 9615 passes through the proposal travelling in both north bound and south bound directions. These buses operate out of the following bus stops:

- (9615) Mamre Rd NB opposite Abbots Rd
- Kemps Creek (Stop ID 217194)
- (9057) Mamre Rd at Abbots Rd
- Kemps Creek (Stop ID 217175)

It is worth mentioning that there is no intention to affect any bus stops or routes throughout the duration of the project. The nearest railway station is Leppington Station at 16km away from the site (Refer to **Figure 10** Cecil Hills HS to Badgerys Creek via Mount Veron and **Figure 11** Badgerys Creek to Ceil Hills HS via Kemps Creek for Bus Routes around the project location).

Home

## 9615 Cecil Hills HS to Badgerys Creek via Mount Vernon

School buses Opal card accepted

PDF timetable

Current

### Route map

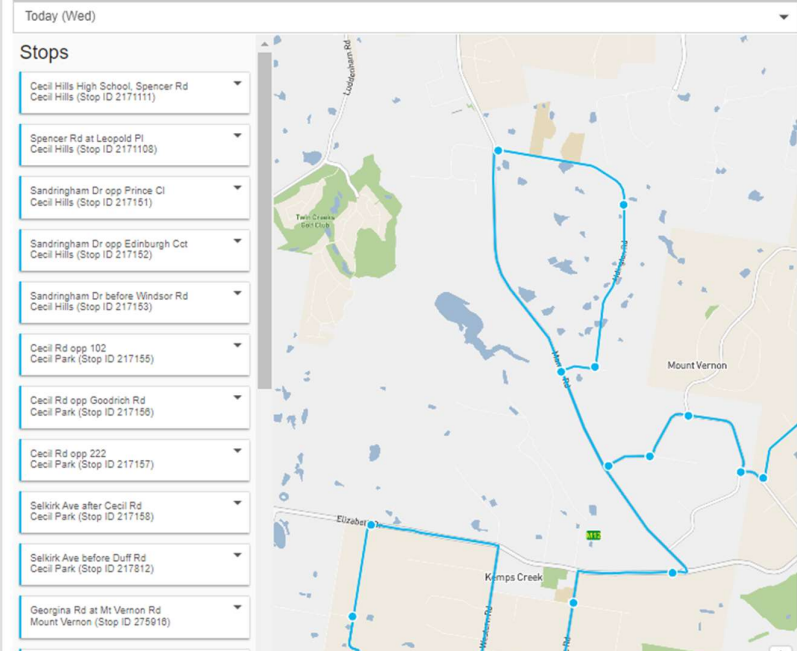


Figure 10 Cecil Hills HS to Badgerys Creek via Mount Veron

PS1076

## 9057 Badgerys Creek to Cecil Hills HS via Kemps Creek

 School buses  Opal card accepted

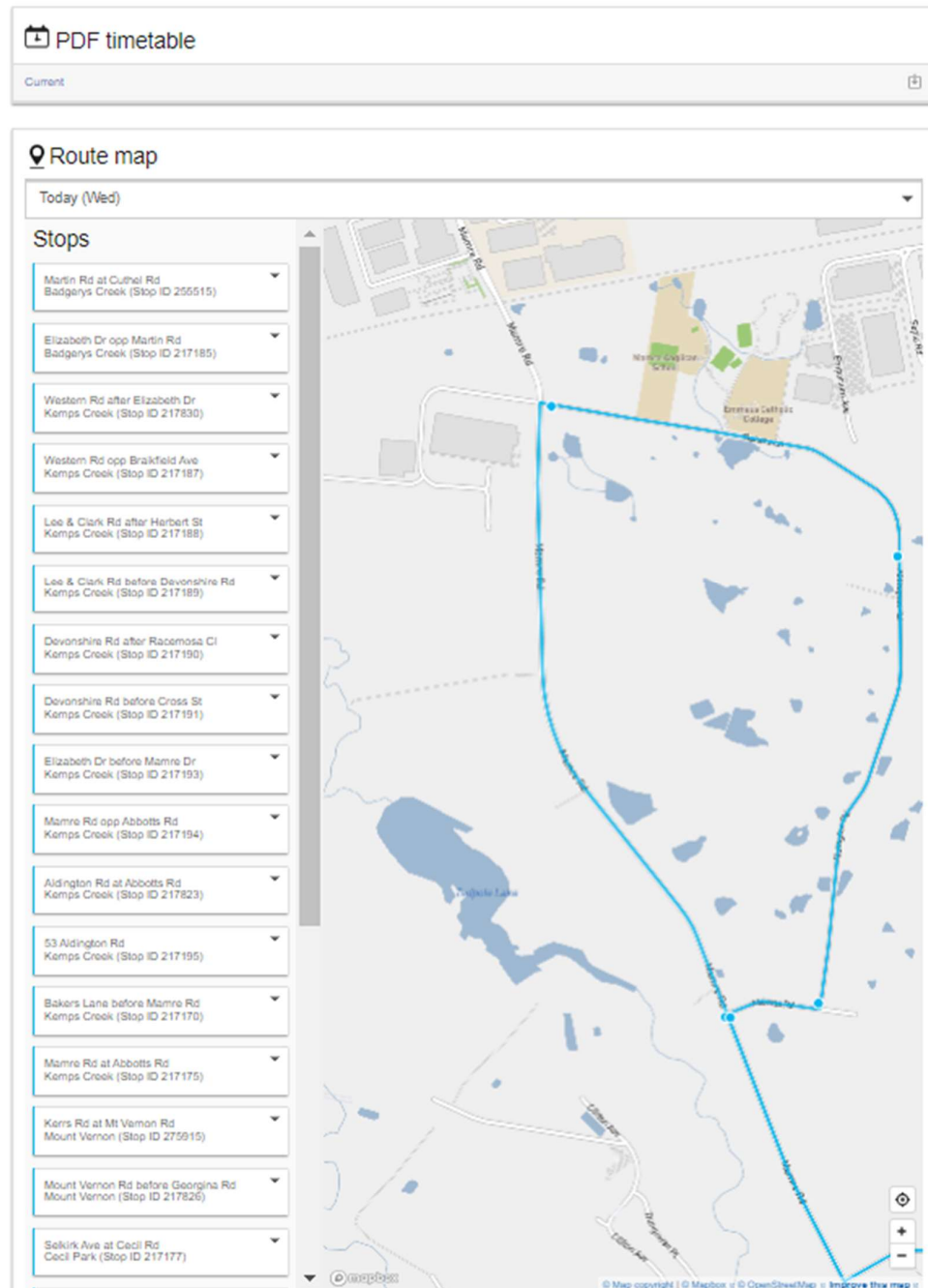


Figure 11 Badgerys Creek to Cecil Hills HS via Kemps Creek

### 3.5.7 Emergency Vehicle Access

In accordance with the TfNSW G10 consultation with all emergency services including fire and rescue, ambulance, police and State Emergency Services (SES), will be advised prior to the commencement of any road works and provisions made to ensure access through or past the work area is maintained at all times. Regular updates will be provided on the staging and progress of the works. At all times when employees are on site, the site supervisor will take whatever action is practical to assist emergency vehicles, tow trucks and service vehicles to gain access to crash or vehicle breakdown sites which are causing or have the potential to cause an obstruction to traffic flow or imperil the safety of road users.

### 3.6 Contractors and Heavy Vehicle Access/Parking

Given that there isn't any readily available public transportation close to the site, contractors will be obliged to drive. Parking will be available on site. The contractor parking and the work areas must always have appropriate pedestrian connectivity.

The development, updating, and relocation of a specific area for the parking of contractor and heavy vehicles is necessary as the project moves forward. As work moves forward, the number of parking spots allotted at the Site will fluctuate and probably get bigger. Each time a car parking location is iterated, there will be enough parking to support the anticipated maximum for that specific stage.

The location of parking spaces will be specified in the Driver Code of Conduct and in the regular toolbox meetings since it is anticipated that the locations of the designated areas for light and heavy vehicles will change as the internal road network is built. There will be parking periodically checked to make sure there are no lines forming on the road.

#### 3.6.1 Heavy and Oversized Vehicles

Mamre Road is an RAV road (refer to **Figure 12** Restricted Access Vehicle Map (RAV) – Project Area) with access for 25/26m B-doubles. For this reason, heavy and oversize vehicles are expected frequently along the route and consideration must be given to the type of heavy vehicles to ensure that safe passageway and lane widths are always maintained past each work area and through the work site. All heavy vehicles will be accessing site from via the desired VMP, with routes as noted in section 2.4.

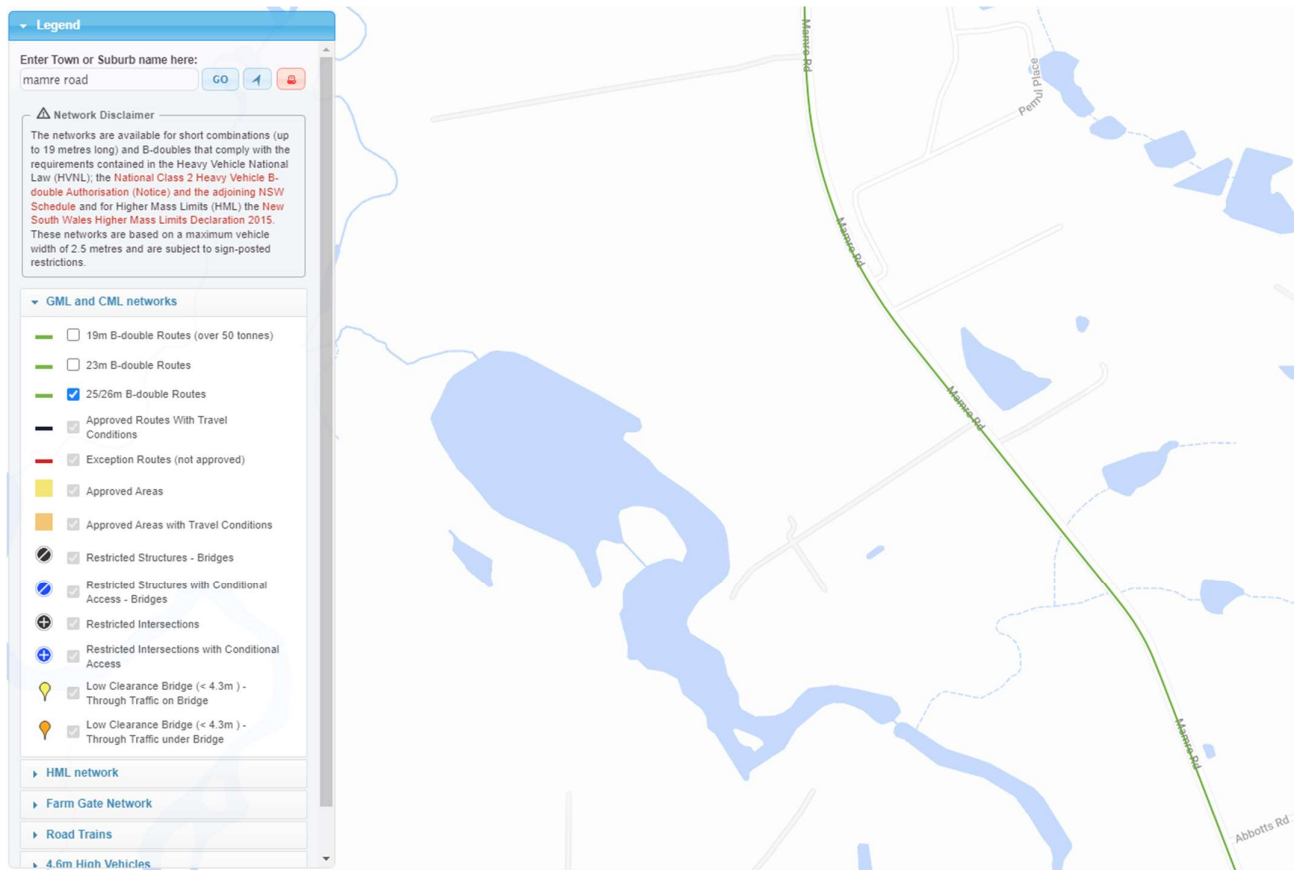


Figure 12 Restricted Access Vehicle Map (RAV) - Project Area

## 3.7 Pedestrian and Cyclists Management

Mamre Road has no existing dedicated pedestrian or cyclist facilities, where long term changes are required. Cycleway Finder reports that Mamre Road is considered “Hard Difficulty”.

Mamre Road does not have any existing pedestrian crossings, cycle ways or footpaths.

Darrabarra Avenue and Berriwerri Drive both have designated shared paths on either side of the road.

That said, within the work site, provision will still be made to ensure that a safe route is provided at all times for cyclists and any pedestrians around the work area (refer to **Figure 13** Bicycle Network Map – Mamre Road). The impacts on cyclist movement because of these works have been assessed and taken into consideration when developing TGSs including that:

- Suitable warning signage will be provided to maintain cyclist safety.
- Temporary diversions will be adequately delineated.
- Where it is necessary to fully close the cycle way or crossing, suitable and safe diversion points shall be established and if necessary, temporary ramps installed. These shall be returned to normal operations outside of construction hours and left free of debris and trip hazards.
- Site gates will be closed and locked when not in use to prevent unauthorized access.
- When movements of plant are expected through any gates then authorized traffic controllers will be in position to monitor and manage conflicting movements.



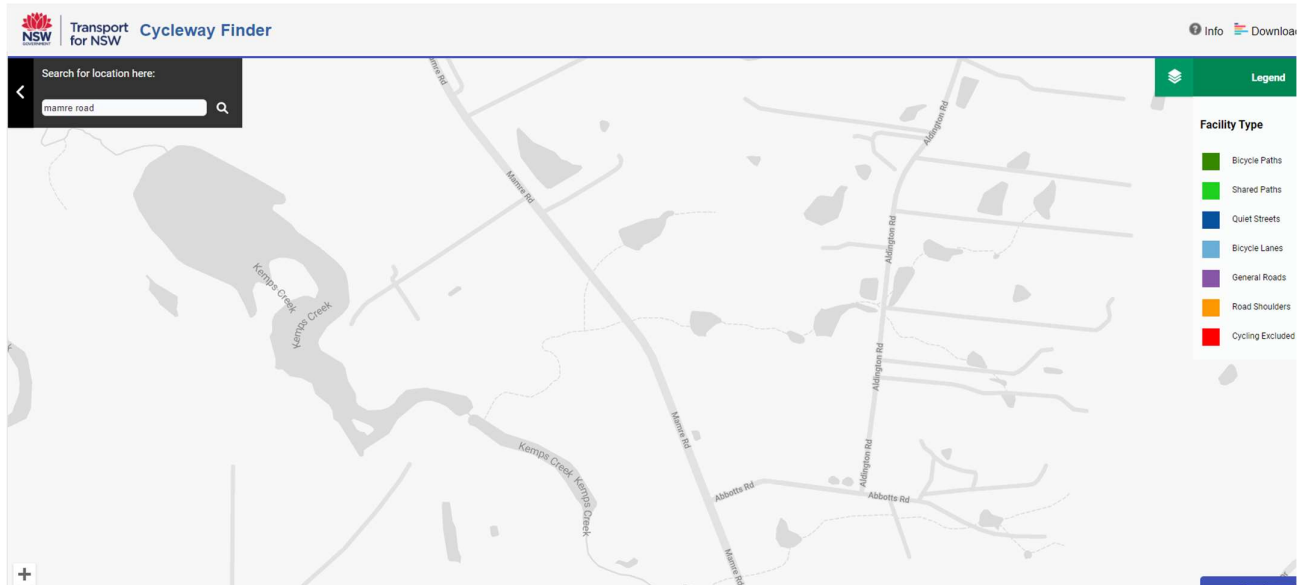


Figure 13 Bicycle Network Map - Mamre Road

## 3.8 Driver Awareness & Code of Conduct

A DCOC and induction training for the development to minimise road traffic noise has been developed. This Code of Conduct will be updated and implemented throughout the life of the project. Refer to **Annexure G** Driver Code of Conduct for controls and requirements.

## 3.9 Additional Traffic Considerations

### 3.9.1 School Zones

There are currently no school zones on Mamre Road within the project site. The closest school near the vicinity of the project site is Mamre Anglican School, 3 km north of the site.

### 3.9.2 Waste Collection

PCC is responsible for waste collection around the project site. Construction activities will not have a direct impact on waste collection services, including property access and kerb side collection; however, consultation is still required to ensure sufficient access if required remains in place for the duration of the project.

### 3.9.3 Special Events

Assessment shows that there are no planned special events that will impact the construction program.

### 3.10 Traffic Management Implementation

#### 3.10.1 Traffic Guidance Schemes

Site-specific Traffic Guidance Schemes (TGSs) will be developed for the various stages of the project and detail the work site location, signage to be installed, and any other changes to traffic conditions. Approach and departure signage, localised exclusion zones, diversions and traffic control devices shall be prepared in accordance with TCAWS 6.1 and AS1742.3 for all activities.

These TGSs shall cover various activities and include the following considerations:

- Construction vehicles activity, including loading and unloading of trucks within the site.
- Accredited Traffic Controllers provided to manage vehicle movements past the work area.
- When used Traffic Controllers having safe escape routes and sufficient visibility using light towers/day makers during any night work.

Additional warning signage and VMS for vehicles at site access points to alert them to the presence of construction traffic; to warn drivers of changes to the usual road conditions and to slow drivers on the approach to the work area.

Having clear definition of the work site boundary through the erection of barriers around site boundaries adjacent to roads.

#### 3.10.2 Road Occupancy License (ROL)

A Road Occupancy License (ROL) shall be sought from the Transport Management Centre (TMC) for approval to occupy the road space between designated hours. The TGSs shall be submitted along with the application to cover the proposed traffic management arrangement shown. The TMC will be provided with a minimum of 10 working days to process each application with an ROL generally being requested for the duration of one month, and then extended as required on an ongoing basis. Should any changes or additional scope of work be added to the work site, then a new TGS shall be drafted to reflect this, and a new ROL application submitted to the TMC. The TMC will be responsible for advising of conflicts with ROL approvals given to other projects.

Works are to be undertaken as per the program with sufficient contingency and time for site establishment and breakdown. The site manager is to monitor progress of each work activity and modify works, if necessary, to ensure lane closures are reopened as per ROL times. Contingency plans will be in place to assist with any unforeseen problems including having road plates and float trucks available on site. If there is a risk of an ROL breach or over-run, then the TMC control room is to be called immediately.

ROLs shall only be activated by the approved License holder listed on the ROL and supervise crews working under this ROL. TMC will be the governing authority along Mamre Road. Penrith City Council will be the governing authority along Berriwerri Drive.

Given access will be via Berriwerri Drive, Council footpath and Verge will need to be utilized as part of the site entry to the project. In doing so, a s138 approval will need to be submitted and approved by Penrith City Council prior to implementation of this site access.

At no point are two access points into the Site proposed to be utilised.

#### 3.10.3 Road Work Speed Zone Authorisation (SZA)

A temporary 60km roadwork speed zone may be implemented under Temporary Traffic Management, during the project to manage the speed of traffic approaching and passing the work site in accordance with the G10 & TCAWS 6 manual. A Speed Zone Authorisation (SZA) shall be requested at the same time as the ROL application and extensions required shall be managed in the same way as the ROLs. Temporary speed zones will be erected as per the approved TGS and operated in accordance with

TMC/TfNSW requirements. Contradictory existing speed signs are to be covered for the duration of each shift. **Roadwork Speed Limits Enforced** signage may also be used to supplement 60km speed zones.

## 3.10.4 Traffic Controllers and Portable Traffic Control Devices

Traffic controllers shall be used to implement any Temporary Traffic Management as required during construction, mobilisation, and demobilisation and at any other times as required for any specific construction activities. Serious consideration will be given to traffic control implementation methods and safe standing locations that provide traffic controllers with an escape route. As such portable traffic signals or porta booms will be used on any roads above 45km/h for any stop slow or shuttle flow arrangements. Sufficient and necessary lighting shall be provided at the work area and UHF radio contact must be always maintained between traffic controllers and work crews.

The portable traffic control devices to be used is the Arrow Emergency Systems eStopTM. Approval for these systems exists on TfNSW QA Specification TS200 – Register of ITS Field Equipment page 7 is shown below in **Table 8** Traffic Signal Site – Type 1 Portable Traffic Signal – TS200 Register of ITS Field Equipment.

*Table 8 Traffic Signal Site – Type 1 Portable Traffic Signal - TS200 Register of ITS Field Equipment*

| SUPPLIER               | MODEL / TYPE | SOFTWARE                                    | CATEGORY      |
|------------------------|--------------|---------------------------------------------|---------------|
| Arrow Emergency System | e-STOP       | PTU: ATCD_Slave-7.1<br>HRC: ATCD_Master-6.1 | Type Approval |

Porta boom's will adhere to the technical direction TETD 2019/03 | TFNSW.19.1236 – 13 May 2019 Use of Portable Boom Barriers.

## 3.10.5 Queue Management

At all times during each required shift, traffic queues shall be monitored to ensure that traffic does not exceed beyond the limits of the advanced warning signs on approach to the work area. Signs shall be repeated where necessary and where space permits. Close contact shall be maintained with the TMC control room during the project if undesirable queues begin to form or if there is an incident in the surrounding area.

## 3.10.6 Advance Warning Signage and Device Requirements

All signs used shall conform to the designs and dimensions as per AS1742.3. Prior to installation, signs shall be checked to ensure they are in good condition and meet the following standard:

- Condition – signs that are bent, broken or have surface damage shall not be used.
- Cleanliness – signs should be free from accumulated dirt and grime.
- Fluorescence & Retro reflectivity – all signs and devices must meet minimum Standards.

Signage requirements are shown on each Traffic Guidance Scheme. Any signs erected prior to being needed shall be covered by a suitable material and only removed immediately prior to the commencement of works. Signs and devices shall be positioned and erected in accordance with the locations and spacing shown on the TGS. All signs shall be positioned so that:

- They are properly displayed and securely mounted.
- They are within the drivers' line of sight and do not obscure other devices and signs.
- They do not become a possible hazard to vehicles especially along the road edge.
- They do not deflect traffic into an undesirable path.
- Fixed signs are to be 2.2m from the ground to the underside of the sign.
- Should the use of additional or reduced number of signs or devices be required, they shall be recorded within the traffic control inspection records as a variation to the CTMP.

### 3.10.7 Delineation and Pavement Markings

Throughout the life of the project, the road past/through the work site shall be clearly delineated using appropriate methods. This shall be supplemented with any traffic management devices deemed necessary for both day and night conditions.

### 3.10.8 Safety Barrier System

There are no plans to utilise any safety barrier systems for this project. All works are internal to the project boundary and as such do not require barriers.

## 4 Traffic Management Monitoring and Review

### 4.1 Monitoring Program

This CTMP shall be subject to a monthly review and will be updated accordingly. CTMP reviews will also be conducted in the situation of a change in traffic requirements/conditions, or before an audit. 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.

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. – CTMP Reviews Conducted Monthly, TGS whilst active are reviewed daily.
- 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 with Barring/Altis to ensure volumes are within Condition Green of **Table 8** Contingency and will be undertaken **once a month**. In addition, the Contractor is required to retain a log of all vehicles accessing the Site daily.
- To identify any shortfalls and develop an updated action plan to address issues that may arise during construction (Parking and access issues)
- 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.

As such the **Table 9 Monitoring & Reviews of CTMP** (below) provides triggers to monitor and review this CTMP.

Table 9 Monitoring & Reviews of CTMP

| MONITORING & REVIEWS OF CTMP                      |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of Review                                    | Frequency                                                                                                                              | Considerations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Scheduled                                         | The scheduled TMP review must be undertaken monthly or as specified otherwise                                                          | <p>The scheduled CTMP review must consider the following:</p> <ul style="list-style-type: none"> <li>• CTMP and TGS are approved;</li> <li>• Identify required variations to the TGS, and ensure that they are updated, recorded, and approved;</li> <li>• Review any departures or variations of the CTMP and/or TGS to ensure they have been documented and approved;</li> <li>• Speed control effectiveness; and</li> <li>• Construction vehicle entry/egress suitability, with no queuing on the public road network at any time.</li> <li>• Construction vehicle daily / peak hour movements are compliant with approved volumes, with monthly reviews of the contractor's daily logbook of vehicles required.</li> <li>• Periodic checks to ensure that ALL vehicles are using the correct access route.</li> </ul>                                                                                           |
| Change Generated Review                           | The change generated review must be undertaken when implementing new traffic stages, switches, or other construction-based activities. | <p>The change generated CTMP review must consider the following:</p> <ul style="list-style-type: none"> <li>• The work site is operating safely;</li> <li>• Delineation is effective with appropriate signage installed for changed conditions;</li> <li>• Safe passage is provided for all road users;</li> <li>• Road Safety Audits are arranged or confirmed as required.</li> <li>• Accountability for approval</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Non-Compliance, Post Incident or Near Miss Review | The Non-Compliance, post-incident or near miss review must be undertaken following an incident or near miss.                           | <p>Any non-compliance must be reported to immediately to the supervisor. A non-compliance is anything other than 'Condition Green' as outlined within <b>Table 8</b> Contingency.</p> <p>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.</p> <p>The post incident or near miss CTMP review must consider:</p> <ul style="list-style-type: none"> <li>• Causal factors;</li> <li>• Contributory factors or changes required; and</li> <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 satisfy the requirements as a part of TfNSW regulations. 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

On completion of establishing the work site, the site is to be monitored to ensure that all signage, devices, and controls are always maintained. The traffic control contractor will ensure that personnel are assigned to monitor the traffic control site and carry out daily inspections as follows:

- **Before Work Starts**
  - Inspect all signage and devices including any VMS to ensure they are undamaged and comply with the requirements depicted on the Traffic Guidance Scheme.
  - After any adjustments have been made to the signs and devices, conduct a drive through inspection to confirm effectiveness. Provide contact name and number for traffic control site supervisor to TMC for nights' activities if applicable.
- **During Construction Hours**
  - Ensure that appropriate personnel drive through the site periodically to inspect all signs and devices including VMS and ensure they are undamaged and comply with the TGS.
  - Ensure on site traffic controllers are in place and carrying out necessary duties.
  - Keep records of any changes made or additional controls erected throughout the shift.
  - Record any significant incidents or observations associated with the traffic controls and their impacts on road users or adjacent properties.
- **At the End of Each Shift Period**
  - Conduct an end of shift site inspection, allowing time for any maintenance work.
  - Remove any unnecessary signage (Workers Symbolic, Traffic Controller)
  - Ensure any lighting is added to road safety barriers as necessary.
  - Record details of inspection and any changes made.
- **In addition to the above daily inspections on site, Burton Contractors will ensure that they monitor**
  - Vehicular usage of gates, to ensure a left in / left out practice where appropriate.
  - Heavy Vehicle queue lengths on the road
  - All Vehicles, to ensure they are abiding by the vehicle traffic routes & rules.
  - Monitoring and recording construction traffic against approved traffic volumes.
  - Adjust construction traffic flow in accordance with monitored numbers to limit congestion on the artillery road.

### Variations to Approved CTMP and TGS

Daily inspection records including any minor variations to the approved CTMP and TGSs shall be kept and provided to the Project/Construction Manager. Any observations that may need significant changes made to the CTMP or TGSs must be given to the Traffic Management Representative so that the changes can be communicated with the relevant authorities to obtain necessary approvals. Reviews and amendments of this CTMP are only to be undertaken by a person qualified in "Prepare Work Zone TMP".

In emergency situations, on site variations shall be made and recorded using the appropriate form or checklist and the appropriate stakeholder to road authority representative notified as soon as is practical. Should any issues of concern be raised during the project, TfNSW and TMC may review the CTMP and determine if changes must be made to the traffic management methodology on site. Changes to approved TGSs can only be made by the original drafter of the TGS requiring modification and require TfNSW specification G10 Hold Point resubmission.

## Road Safety Audits

A road safety audit may be required at different stages throughout the project especially after any major change in traffic conditions. The road safety auditor must be independent and be certified to level 3 on the TfNSW Road Safety Auditor as a minimum. If measures prove not to be fully effective, then in consultation with the road safety auditor, the CTMP will be revised, and appropriate measures implemented.

### 4.2.1 Incident Management and Emergency Services

In the event of any unplanned incident or accident on site, whether involving traffic or road users, the following project documents must be referred to for the appropriate procedure:

- Incident Management Plan
- Emergency Response Plan

In general, the following protocol will be followed:

1. Notify the relevant authorities and update accordingly following their instructions.
2. Where possible, cease work and remove restrictions.
3. Modify traffic control as necessary and manage until emergency services arrive.
4. Re-program any VMS units to advise of situation.
5. Assess and re-evaluate risks and hazards, if necessary, postpone work activities.
6. In the event of an emergency, the following relevant authorities must be contacted and advised of the nature of the works, type of emergency and contact details for the site supervisor:
  - a. Emergency Services: (000)
  - b. TMC (131 700)
  - c. Safework NSW (13 10 50)

Regarding traffic related incidents that have potential to impact traffic or public transport, Burtons will assess ensure the required traffic control measure/resources are implemented. These resources may consist of the following:

- Traffic control personnel
- Traffic control vehicle including:
  - Barrier boards
  - Cones
  - Vehicle Mounted VMS board
  - Signs

An incident that results in excessive traffic movement and/or traffic congestion the following actions will be taken:

#### Immediate responses

- Limit further traffic proceeding onto Mamre Road.
- Delay further deliveries and vehicle movements until traffic congestion has subsided.

#### Assessment responses

- Situation will be assessed for route cause.
- If it is the result of a singular vehicle impeding traffic;
  - If safe to do so we will have the vehicle can re-enter site and park to the side of the project entry/exit roads.
  - Driver will be assessed to see if they have followed the DCOC and direction of the Gates Person.
  - If the incident is assessed and the person responsible is the driver, they will receive a warning. After a second warning, the driver will be removed offsite for the remainder of the project.
- If it was the cause of an unaccounted-for factor, the CTMP will be re-assessed, updated, and distributed.
  - Any adjustments to management plans will be Toolboxes onsite and sent as an email notification to all relevant subcontractors and stakeholders.



- If it is the result of a Non-conformance with CTMP procedures the site team will assess the situation to understand the break in procedures. Once the failure in processes is identified a Non Conformance Report NCR will be raised and distributed to the client and TMC, detailing out rectification's methodology and an updated CTMP if required.
- Re-assessment of Traffic movement will be done to accurately understand peak and off-peak movements on Mamre Road.
  - This will allow for appropriate coordination of deliveries and vehicle movements to reduce the impact of the construction traffic impeding the traffic flow.

### Emergency services

Emergency services will be notified of the proposed works, including their nature, date, and times as well as contact details for the site supervisor. The Traffic Control Site Manager will be responsible for providing up to date information to the respective emergency services regarding the changes to traffic flow during the works.

Arrangement to manage impacts on emergency services include:

- Notification and communication with affected emergency services including suggested detour routes when applicable.
- Provision for emergency service access through the construction site
- Communication with the workforce to ensure understanding of emergency access and response requirements.

Refer to **Annexure E** Traffic Incident Management Plan for associated emergency contacts information) for the project (refer to **Table 11** List of Emergency Contacts in Annexure E).

### 4.3 Contingency Plan

The Contingency Plan (refer to **Table 10** Contingency) outlines an indicative plan to be undertaken by Burton Contractors if the monitoring program identifies the management plan is not effective in managing the construction impacts. Nevertheless, **Table 8** Contingency outlines an indicative plan to be undertaken by Burton Contractors if the monitoring program identifies the management plan is not effective in managing the construction impacts.

Table 10 Contingency Plan

| 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 4.4.1</b> Anticipated Construction Traffic of the CTMP. | Construction traffic volumes exceeds programmed Peak volumes but is within permissible volume constraints.                                                                                                                                                | Construction traffic volumes exceeds permissible volume and time constraints.                                                                                                                                                                                                                                                                                |
|                                         | Response | No response required                                                                                                                                                                           | Review and investigate construction activities, and where appropriate, implement additional remediation measures such as: <ul style="list-style-type: none"> <li>Review CTMP and update where necessary.</li> <li>Provide additional training.</li> </ul> | As with Condition Red; <ul style="list-style-type: none"> <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.</li> <li>Temporary postpone/limit traffic in and out of the site to reduce the contribution to congestion.</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<br>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                                                                                            | As with Condition Amber, plus <ul style="list-style-type: none"> <li>Review and investigate construction activities.</li> </ul>                                                                                                                                                                                                                              |
| Noise Generated by Construction Traffic | Trigger  | Noise levels do not exceed imposed noise constraints, as outlined within the Noise Assessment Report (<75dBA), nor has there been a traffic noise related                                      | Noise levels in minor excess (<10dBA) of imposed noise constraints, or receipt of a single traffic noise complaint. Action/s taken to address; investigate to try to                                                                                      | Noise levels greatly in excess (>10dBA) of imposed noise constraints and/or consistent traffic noise complaints exceeding 2 or more notifications on the                                                                                                                                                                                                     |

|                                |                 |                                                         |                                                                                                                |                                                                                                                                                                                                  |
|--------------------------------|-----------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                |                 | complaint                                               | ascertain the source of the noise complaint. Eliminate or minimise noise generation.                           | same day by different stakeholders. It would be cease work in that effected to immediately manage the noise complaint and investigation will be held as per Amber procedures.                    |
|                                | <b>Response</b> | No response required                                    | Undertake all feasible and reasonable mitigation and management measures to minimise noise impacts.            | As with Condition Amber If noise levels cannot be kept below applicable limits, then a different construction method or equipment must be utilised.                                              |
| <b>Traffic Guidance Scheme</b> | <b>Trigger</b>  | 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                                                                                                         |
|                                | <b>Response</b> | 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. |

## 5 Consultation and Communication

### 5.1 Consultation with Stakeholders and Authorities

Early engagement has been undertaken with the key stakeholders and authorities, prior to the formal approval process. This is necessary to identify any key issues of concern that may require alternative approaches to be considered in methodology.

Further to any consultation, site- specific TGSs will be developed for each specific stage of work in accordance with relevant TfNSW and Australian Standards. These plans will show the specifics of the proposed works and individual traffic controls for each site. These TGSs will also be formally submitted for approval/comment by the relevant stakeholders prior to implementation in accordance with TfNSW specification G10 requirements. The main stakeholders/authorities are as follows:

- TfNSW
- TMC (131 700)
- PCC
- Emergency Services
- Surround Residencies and Businesses

Refer to **Annexure A** Traffic Guidance Scheme (TGS) which details these TGSs. Each TGS is to operate within the conditions of any approvals or licenses issued from authorities.

Prior to the submission to the department of planning, the CTMP will be submitted to Council and TfNSW for approval in accordance with condition B1 (b) and satisfy condition A11 of the SSD – Development Consent.

### 5.2 Communications Strategy

A communications strategy has been established by BURTON Contractors under our Community Consultation and Complaints Management Strategy (CCCMS). The Communications and Stakeholder Advisor shown on the CCCMS shall be responsible for ensuring that the appropriate management response and handling procedures are instigated and carried through in the event of an traffic/environmental complaint.

All employees who are made aware of a complaint, either verbal or written, are to immediately notify the Contractor's Project Manager/Management Staff, who will then contact the Communications and Stakeholder Advisor. Upon becoming aware of a complaint, the protocol outlined below will be followed;

- Record details of complaint received, via the utilisation of a complaints register (referred in further detail in the CCCMS).
- Investigate and determine source of complaint immediately.
- If the complaint is not related to the Project advise the customer/stakeholder immediately.
- Provide a response acknowledging receipt of complaint as soon as possible.
- Provide a detailed written response to the complainant within seven business days of initial complaint, outlining details of the issue and remedial actions.

### 5.3 VMS Strategy

As part of the notification process, advanced warning of the road works will be communicated via Variable Message Signs (VMS) placed at strategic locations as shown on approved VMS schedules in accordance with the TfNSW G10 specification. These will convey information on the dates and times of the planned road works to motorists on a continual basis on the lead-up. The portable VMS units will be used to provide advance warning of the road works, and then changed to more specific messages (as required) during the actual work activities on each night. In addition, it is requested that the TMC utilise their major overhead VMS network to advise motorists of lane closures and to exercise caution.

### 5.4 Notification Process for Residents, Businesses and Commuters

Notification about traffic management impacts may include the following:

- Letterbox notifications, flyers and project updates
- Phone calls
- Doorknocking
- Face to face engagement (meetings)
- Website updates

**Burton Contractors must ensure road access to neighbouring properties at 930 – 966 Mamre Road is maintained for the duration of construction and operation, or alternative access is provided as agreed with the relevant landowner.**

Residents will also be consulted in advance where there is likely to be a direct impact, for example temporary loss of driveway access or power/water supply. The project Community Relations Team will provide relevant contact information for the purpose of dealing with queries and complaints including:

**Project Enquires Email:** Joshua.Macree@burtoncontractors.com.au

**Project Postal Address:** Unit 3/11-21 Underwood Road, Homebush 2140

**TGS (long term) for Stage 1 access signage at 884-928 Mamre Road, Kemps Creek NSW 2178**











TGS (long term) for primary (stage 2) site access Via Darrabarra Avenue & Berriwerri Drive, Kemps Creek NSW 2178



Figure 17 Long Term Signage Plan for Primary Site Access via Darrabarra Avenue

## 7 Annexure B – Variable Message Sign Schedules

VMS for 884 to 924 Mamre Road, Kemps Creek NSW 2178



Figure 18 VMS for 884 to 924 Mamre Road – Sheet 1 of 3





Figure 19 VMS for 884 to 924 Mamre Road – Sheet 2 of 3

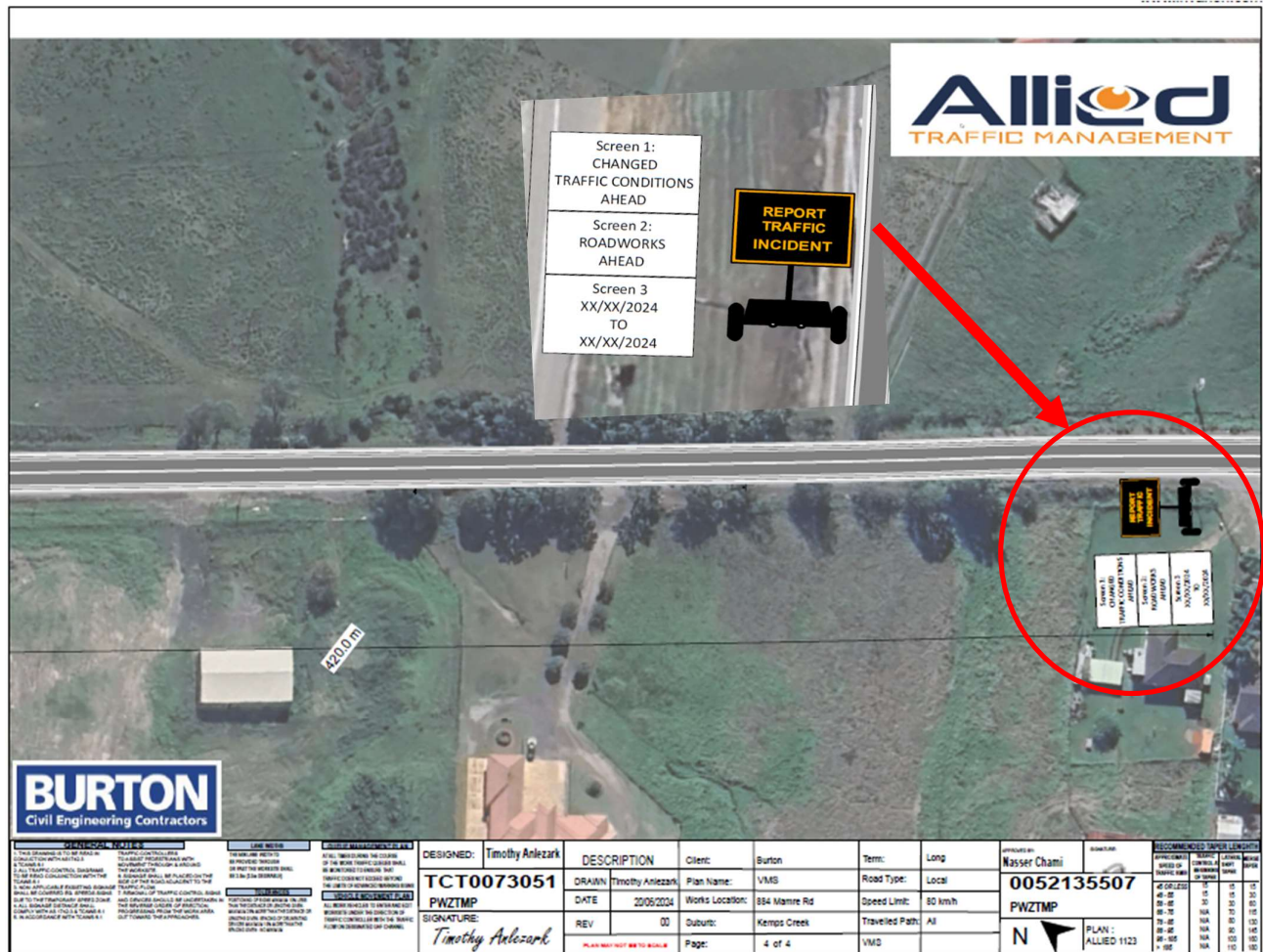


Figure 20 VMS for 884 to 924 Mamre Road – Sheet 3 of 3

## 8 Annexure C – Traffic Staging Plans

Stage 1 - Access through 904 Mamre Road while awaiting signaling of Darrabarra Avenue intersection.

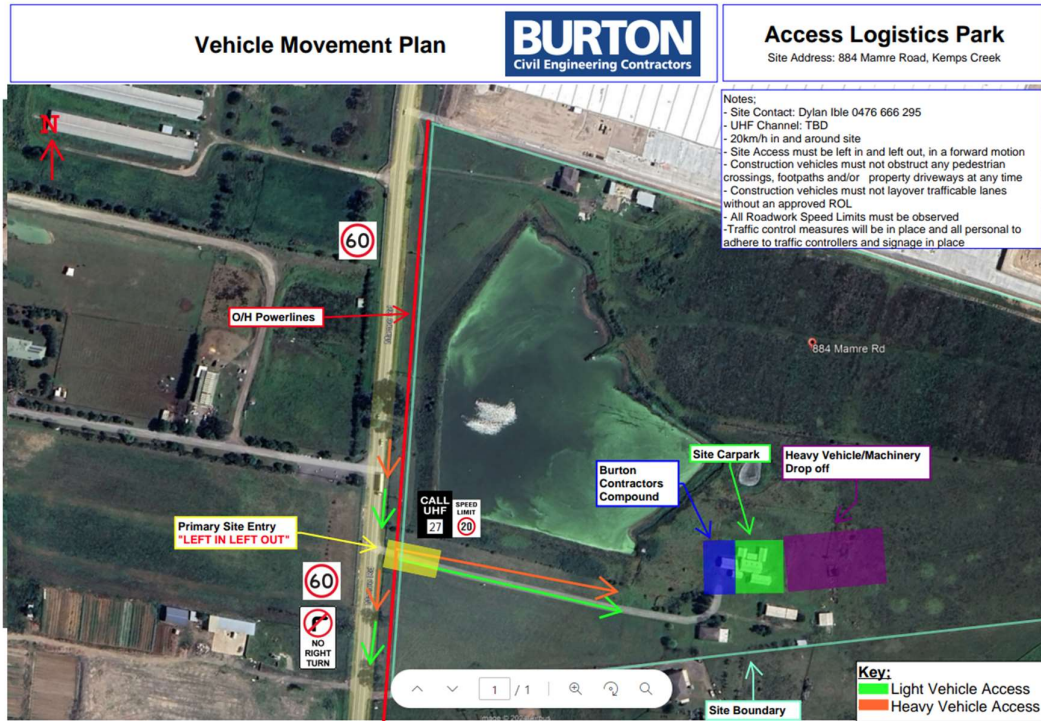


Figure 21 Stage 1 – Stage 1 access through 904 Mamre Road while awaiting signaling of Darrabarra Avenue intersection.

At no point are two access points into the Site proposed to be utilised.



## Stage 2 – Primary site access during construction after signaling of Darrabarra Avenue intersection.

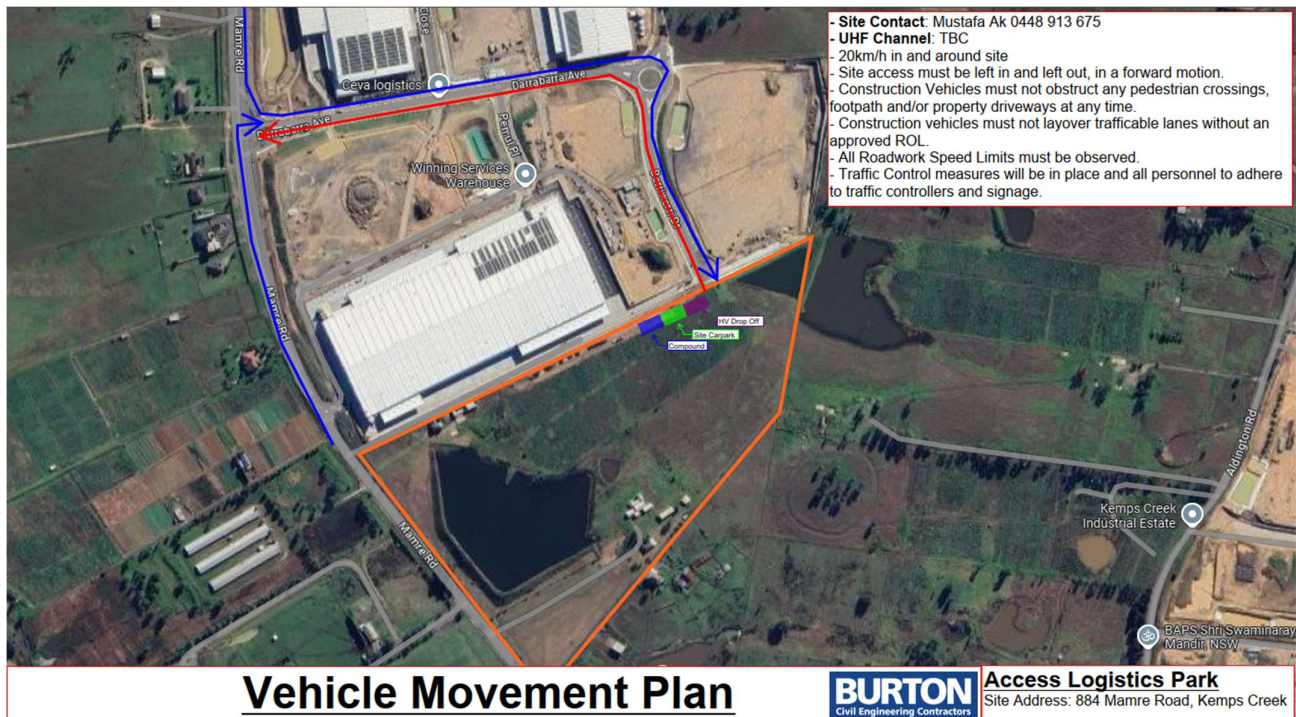


Figure 22 Stage 2 – Primary site access during construction after signaling of Darrabarra Avenue

At no point are two access points into the Site proposed to be utilised.

## **9 Annexure D – Traffic Risk Assessment**

Current Revision – Rev 0



| SECTION 1: PROJECT DETAILS and RISK ASSESSMENT DEVELOPMENT & AUTHORISATION |                         |             |     |                     |  |                      |  |
|----------------------------------------------------------------------------|-------------------------|-------------|-----|---------------------|--|----------------------|--|
| Project:                                                                   | Access Logistics Estate | Project No: | 430 | Date TRA Developed: |  | Developed by (name): |  |

| REVISION CONTROL |  |       |  |                    |  |           |  |       |  |
|------------------|--|-------|--|--------------------|--|-----------|--|-------|--|
| Revision:        |  | Date: |  | Revised by (name): |  | Revision: |  | Date: |  |
| Revision:        |  | Date: |  | Revised by (name): |  | Revision: |  | Date: |  |
| Revision:        |  | Date: |  | Revised by (name): |  | Revision: |  | Date: |  |
| Revision:        |  | Date: |  | Revised by (name): |  | Revision: |  | Date: |  |

| SECTION 5: RISK ASSESSMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>What is an ACTIVITY?</b><br/>An activity is the construction task being undertaken. E.g. Operation of an articulated dump truck to transport material on site.</p> <p><b>What is a HIGH RISK ACTIVITY?</b><br/>A high-risk activity requires a worker to a hold licence, competency or Burton Contractors work permit/approval to perform the activity. This is due to the hazardous nature of the work.</p> <p><b>What is a HAZARD?</b><br/>A hazard is anything that could cause harm. E.g., Articulated dump truck tray rolling over while transporting material on site.</p> <p><b>What is a RISK?</b><br/>A risk is the assessment and determination of likelihood and consequence of the hazard occurring. E.g., crush injury to operator or nearby pedestrian from articulated dump truck tray rolling over. Using the <b>Risk Matrix</b>, allocate the <b>Risk Score</b> based on the consequence – e.g., permanent disability / fatality, and likelihood – e.g., likely to occur. The <b>Risk Score</b> is where the two points intersect – for this example it is a 3. The risk must be assessed before control measures are applied, and again after control measures are applied to verify if the risk has been eliminated or reduced.</p> | <p><b>Hierarchy of Controls</b><br/>Burton Contractors employs a Hierarchy of Controls which is split into 3 levels of control. Each level describes the ways in which a risk can be controlled. The higher the level of control, the greater level of protection and reliability is provided in effectively controlling the risk.</p> <p>The most effective form of control is elimination, however where this is not possible, a combination of Level 2 and/or 3 controls must be applied to minimise the risk.</p> <p><b>Risk Matrix</b><br/>The risk matrix provided below is used to distribute risks into four categories – Critical, High, Medium and Low.</p> <p>A task with an identified risk of Critical must not proceed. The Project Manager must escalate the high-risk activity with Construction Manager &amp; QSE Team Leader to identify strategies to reduce risk or where Director approval is required where risk cannot be lowered to acceptable level.</p> <p>For further information on either the Hierarchy of Controls or the Risk Matrix of please consult Burton Procedure PR-007 Risk Management or the QSE Department.</p> | <p><b>How to look for hazards:</b><br/>A simple way to begin looking for hazards can be by dividing your workplace into logical workplace groupings, such as:<br/>Task hazards (working on machines, loading the truck, excavating around services, tools / equipment / material used for the task);<br/>Workplace hazards (road works, in and around schools and playgrounds, depth and location of excavations, surrounding works);<br/>Environmental hazards (weather conditions – strong wind, rain, extreme heat);</p> <p>There are many other activities that can be undertaken to help with identifying hazards. These include:<br/>Walking through and inspecting each task or location;<br/>Consulting with workers. Ask about any problems they have encountered or how the job should be carried out safely;<br/>Consider the following:<br/>How people use equipment and materials;<br/>How suitable the equipment used for the task is; and<br/>How people could be injured directly and indirectly by the various workplace hazards.</p> |

|                  |                                                                                                                     | CONSEQUENCE                                                                                            |                                                                                                                                |                                                                                                                |     |
|------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----|
|                  |                                                                                                                     | CRITICAL                                                                                               | HIGH                                                                                                                           | MEDIUM                                                                                                         | LOW |
| LIKELIHOOD       | Almost certainly will occur                                                                                         | 1                                                                                                      | 2                                                                                                                              | 4                                                                                                              | 7   |
|                  | Likely to occur                                                                                                     | 3                                                                                                      | 5                                                                                                                              | 8                                                                                                              | 11  |
|                  | Possibility to occur                                                                                                | 6                                                                                                      | 9                                                                                                                              | 12                                                                                                             | 15  |
|                  | Unlikely to occur                                                                                                   | 10                                                                                                     | 13                                                                                                                             | 16                                                                                                             | 18  |
|                  | Could occur rarely                                                                                                  | 14                                                                                                     | 17                                                                                                                             | 19                                                                                                             | 20  |
| Injury           | Permanent disability / Fatality                                                                                     | Hospitalisation / <6 months lost time injury.                                                          | >6 months lost time injury / Medical treatment injury.                                                                         | First aid – No lost time injury.                                                                               |     |
| Environmental    | Unplanned event likely to cause significant long term environmental impact and require an extensive rehabilitation. | Unplanned event likely to cause a serious environmental impact and require rehabilitation.             | Unplanned event likely to cause a minor environmental impact and require rehabilitation.                                       | Negligible unplanned event immediately contained and recovered within control system. No environmental impact. |     |
| Property / Plant | >\$50k. Major damage or total loss.                                                                                 | \$10k – \$50k. Significant damage.                                                                     | \$2k-\$10K. Minor damage.                                                                                                      | <\$2k. Very minor damage                                                                                       |     |
| Stakeholders     | Significant adverse national public, media attention. Major litigation likely. Licence to operate threatened.       | Significant adverse local, public, media attention. Serious Regulatory breach Prosecution/fine likely. | Minor adverse local, public or media attention. Significant scrutiny from Regulator, Minor prosecution or litigation possible. | Public concerns restricted to local complaints. Ongoing scrutiny from Regulator, prosecution unlikely.         |     |

**RISK SCORE**

| RISK SCORE | CATEGORY |
|------------|----------|
| 1 – 6      | Critical |
| 7 – 10     | High     |
| 11 – 14    | Medium   |
| 15 – 20    | Low      |

A task with an identified risk of **Critical must not proceed. The Project Manager must escalate the high-risk activity with Construction Manager & QSE Team Leader to identify strategies to reduce risk or where Director approval is required where risk cannot be lowered to acceptable level.**

| Likelihood                  | Definition                                                                                                                                                        | Frequency Scale     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Almost certainly will occur | Would expect the event to occur <b>every time</b> the activity is undertaken (daily), >90% of the time the activity is undertaken.                                | Every day           |
| Likely to occur             | Would expect the event to occur <b>at least once a week</b> if the activity was done regularly, 60 – 90% of the time the activity was undertaken.                 | Every week          |
| Possibility to occur        | Would expect the event to occur <b>once per month</b> if the activity was done regularly, 30 – 60% of the time the activity was undertaken.                       | Every month         |
| Unlikely to occur           | Would expect the event to occur <b>once during the project</b> <30% of the time the activity was undertaken.                                                      | Duration of project |
| Could occur rarely          | Would expect the event to occur <b>only in exceptional circumstances</b> <5% of the time the activity was undertaken whether performed regularly or infrequently. | Duration of project |

**LEVEL 1**  
Eliminate the hazard

**LEVEL 2**  
Substitute the hazard  
Isolate the hazard  
Implement engineering controls

**LEVEL 3**  
Administrative controls (e.g. signs)  
Personal Protective Equipment (PPE)

LEVEL OF PROTECTION: HIGH (up), LOW (down)

RELIABILITY OF CONTROLS: MOST (up), LEAST (down)

| Risk Identification                                                 | Risk Rating | Control Level                                          | Mitigation Measure/Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Residual Risk |
|---------------------------------------------------------------------|-------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Adjacent traffic generating developments                            | 12          | ADMINISTRATIVE                                         | Review all traffic generating developments in the area and identify potential impacts.<br>Where possible, coordinate construction activities to minimise cumulative impacts on the road network.<br>Implement traffic control as required to manage the operations of adjacent developments.                                                                                                                                                                                                                                                                                                                                                                                                                                               | 18            |
| Adverse Weather Conditions                                          | 8           | ENGINEERING<br>ADMINISTRATIVE                          | Monitor weather bureau websites and notices.<br>Where necessary liaise with emergency services agencies, PCC/TfNSW/TMC. Implement CEMP relevant sub-plan for weather condition.<br>Support Emergency Services Agencies.<br>If the road network is affected notify TfNSW/TMC.<br>Remove any current short-term traffic control operations and limit the use of Traffic Controllers.<br>As required, install appropriate traffic controls and or advance warning signs to warn of hazard.<br>Increase the frequency traffic control inspections to rectify and or re-install damaged signs and devices.<br>Regularly inspect the road network adjacent to works. Monitor weather conditions and review controls accordingly.                 | 12            |
| Approval delay by authorities cause disruption and delay to project | 8           | ADMINISTRATIVE                                         | “No Surprise” approach between all parties by involving and consulting throughout the approval process.<br>Submissions given adequate lead time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12            |
| Bush / Grass Fires                                                  | 13          | ENGINEERING<br>ADMINISTRATIVE                          | Liaise with the NSW Rural Fire Service and identify possible risk areas along the project. Source and comply with fire bans and instructions.<br>Ensure fire extinguishers are available on site. Develop SOPs and SWMS when conducting hot works.<br>Maintain both pedestrian and vehicle accesses to adjoining properties at all times. If a fire occurs, notify the NSW Fire Brigade and adjoining property owners.<br>Follow and execute the Incident Emergency Spill Plan.<br>Support Emergency Services Agencies if required.<br>If the road network is affected, notify PCC/TMC and implement appropriate traffic controls to make area safe.<br>Monitor fire and modify actions accordingly                                        | 16            |
| Damage to utilities                                                 | 11          | ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE               | Ensure Dial Before You Dig procedures are in place and implemented. Obtain Permit to Excavate Record prior to commence work. Obtain relevant spotters if required for High-Risk services<br>Implement Working around Utility / Excavation SWMS.<br>Notify emergency services and relevant utility authority if any damage occurred. If required, isolate the incident area.<br>If required, implement traffic control measures at the incident scene, and notify PCC/TfNSW/TMC.<br>Report on incident for input into review process (preventive action).<br>Traffic lanes shall be made to operational as soon as road occupancy repair works completed.<br>Steel plates to be on site for road crossings, to be implemented to M209 spec. | 18            |
| Dust                                                                | 11          | SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE | Monitor weather bureau websites and notices.<br>Where necessary liaise with emergency services agencies, PCC/TMC.<br>Implement CEMP relevant Air Quality Management sub-plan for weather condition. Minimise dust build-up within the work areas.<br>If the road network is affected notify PCC /TMC.<br>Remove any current short-term traffic control operations and limit the use of Traffic Controllers.<br>As required, install appropriate traffic controls and or advance warning signs to warn of hazard.<br>Monitor storm and review controls accordingly.                                                                                                                                                                         | 15            |
| Early Construction Start Time                                       | 8           | ELIMINATE<br>SUBSTITUTE<br>ADMINISTRATIVE              | Plan all works to avoid working outside of daylight hours. Obtain relevant approvals from agencies.<br>Assess the impacts on the community and road users.<br>Follow processes outlined in the CCL Plan to ensure stakeholders are provided with advance notice.<br>Utilise VMS to notify the motorists of any changed traffic conditions.<br>Implement appropriate traffic controls to minimise impact on the road network, including the operation of bus services.                                                                                                                                                                                                                                                                      | 15            |
| Night Works                                                         | 5           | SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE | Night work is generally high risk by the nature of the work – ensure Construction Manager & QSE team Leader are aware of scheduled night works<br>Refer to General Mobile Plant Controls.<br>ROL & TCP for work<br>Prior notification to residents of work. Night shifts not to exceed parameters outlined in the OOHW permit approval<br>Set up detour as per TCP                                                                                                                                                                                                                                                                                                                                                                         | 13            |

|                                            |    |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |
|--------------------------------------------|----|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                            |    |                                                                            | <p>Sufficient lighting required for work</p> <p>Ground workers to be in white overalls for visibility</p> <p>Monitor queuing of traffic</p> <p>Positive comms for traffic controllers</p> <p>Positive comms for excavator operator &amp; truck driver</p>                                                                                                                                                                                                                                                                                                                        |    |
| End of queue management (local roads only) | 11 | SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE<br>PPE              | <p>Review traffic volumes to estimate end of queue location for the proposed stoppage time.</p> <p>Notify road users about the expected delays.</p> <p>Install VMS as required to notify and warn approaching traffic.</p> <p>In addition to the standard TCP, implement end of queue traffic controls as per section</p> <p>Consult and follow 4.6 of the TCAWS v06.1 manual.</p> <p>Develop contingency plans for a stoppage 10 minutes and more.</p> <p>Additional day makers to be installed on queue approach as required</p>                                               | 15 |
| Extreme (high/low) temperature             | 12 | ELIMINATE<br>SUBSTITUTE<br>ADMINISTRATIVE                                  | <p>Monitor weather bureau website and notices.</p> <p>Ensure staff are provided with adequate water and resources to mitigate dehydration. Reschedule works to avoid extreme temperature periods.</p> <p>During hot weather periods, limit the length of short-term stoppages on the road network, and ensure water is available on site.</p> <p>When traffic controllers are in operation, ensure they are provided with appropriate PPE, water and relieved at regular frequencies.</p> <p>Regular inspect the road network adjacent to works. Monitor weather conditions.</p> | 15 |
| Fog                                        | 12 | ELIMINATE<br>ADMINISTRATIVE                                                | <p>No work shall be undertaken in fog unless appropriate sight distance is available.</p> <p>Keep the traffic lanes and shoulder clear all the time.</p> <p>Monitor conditions regularly and be prepared for changes in weather. Flashing yellow lamps shall be mounted on warning signs.</p> <p>Rotating flashing yellow lamps shall be mounted on all construction plant and vehicles.</p> <p>Install RRPMS and delineation devices along all temporary works</p>                                                                                                              | 15 |
| General Media Misinformation               | 12 | ELIMINATE<br>ADMINISTRATIVE                                                | <p>Construction staff to be instructed not to provide comments to media or political enquiries.</p> <p>Construction staff to be instructed to record the name, organisation and mobile number of the media contact and immediately contact their supervisor.</p> <p>Liaise regularly with stakeholders.</p> <p>Provide a single point of contact for the project.</p> <p>Release regular project updates and information to stakeholders. Monitor feedback and the various media to identify trends.</p>                                                                         | 15 |
| Haulage Operations                         | 13 | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE<br>PPE | <p>Plan all routes to maximise safety and minimise impact on the road network.</p> <p>Comply with the haulage operation requirements stipulated within the Traffic Management Plan.</p> <p>Prepare and implement specific Vehicle Movement Plans and associated Traffic Guidance Schemes.</p> <p>Coordinate haulage operations and road occupancies.</p> <p>Monitor haulage routes and review Vehicle Movement Plans as required. As a contingency, identify suitable alternative routes.</p>                                                                                    | 16 |
| Heavy Vehicle Breakdown                    | 12 | SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE<br>PPE              | <p>If the vehicle is obstructing travel lanes, notify PCC/TMC immediately.</p> <p>Where possible, provide initial response and install traffic controls to make site safe.</p>                                                                                                                                                                                                                                                                                                                                                                                                   | 16 |
| High Volumes of heavy vehicles             | 15 | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | <p>Give consideration of the high percentage of heavy vehicles during the construction phase.</p> <p>Plan all works to avoid restrictions, impacts and speed limit reductions overnight during peak heavy vehicle periods.</p> <p>Provide a high standard of traffic controls to warn, inform and guide heavy vehicles through the work areas.</p> <p>Implement temporary works that comply with the TfNSW's Road Design Guide, provide a safe road environment, and accommodate the movements of heavy vehicles.</p>                                                            | 18 |
| Impacts to Emergency Services              | 11 | SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE                     | <p>Design and implement emergency service accesses in all phases of construction.</p> <p>Inform and regularly update emergency services in regards to the site gates and accesses.</p> <p>Consult with emergency services on access restrictions and alternative arrangements. Provide 24-hour contact number to all emergency services.</p>                                                                                                                                                                                                                                     | 15 |
| Increased traffic generated by project     | 11 | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | <p>Estimate the potential traffic generated by the project.</p> <p>Review existing traffic volume with increased project generated volume to determine the potential impact it will have on the road network.</p> <p>Give consideration to the potential increased traffic volumes when preparing the TCP's. Where required, modify traffic controls to accommodate increased traffic volumes.</p> <p>Monitor the road network and implement traffic management solutions, as required to maintain the performance of the road network.</p>                                      | 15 |

|                                                                |    |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |
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| Localized and flash flooding                                   | 4  | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | Consult Burton generated Flood Contingency Plan.<br>Implement Incident Emergency Spill Plan. Support Emergency Services Agencies.<br>If the road network is affected notify PCC/TMC.<br>Where required, assist with the removal of drainage obstructions.<br>Where possible, install appropriate traffic controls and or advance warning signs to warn of hazard.<br>Monitor flood levels and review controls accordingly.                                                                                                                                                                                                                                                                                                                                                                       | 12 |
| Major Congestion                                               | 8  | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | Analyse possible impacts due to works, using traffic modelling where necessary and analyse, to identify issues.<br>Develop traffic schemes to mitigate congestion where possible. Program works during low traffic periods.<br>Through Traffic Management Plan process, and information signage, alert public to likely congestion and delays.<br>Monitor road network for congestion, review traffic management measures where required.                                                                                                                                                                                                                                                                                                                                                        | 12 |
| Major Incidents                                                | 8  | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE<br>PPE | Maintain regular contact and liaison with PCC/TMC.<br>Ensure procedures are in place to deal with the various types of incidents.<br>Monitoring of the roads will identify unsafe road conditions, unplanned incidents, non- conforming traffic control measures and unusual congestion.<br>When required use appropriate traffic control measures, including traffic controllers, signage, pavement markings and lighting.<br>TCPs to be designed and installed in accordance with TCAWS manual. Establish and implement TCPs.<br>Report on incident to input into review process (preventative action).                                                                                                                                                                                        | 12 |
| Minor Vehicle Crashes                                          | 9  | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE<br>PPE | If an unplanned incident occurs, notify emergency services.<br>Assist in providing a high standard of traffic controls to warn, inform and guide motorists, through the work areas.<br>Implement temporary works that comply with the TfNSW Road Design Guide and provide a safe road environment.<br>Where possible, provide initial response and install traffic controls to make site safe and assist vehicle occupants.<br>Support emergency services.                                                                                                                                                                                                                                                                                                                                       | 12 |
| Public transport disruptions                                   | 9  | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | Consult regularly with public transport operators with regard to proposed changes to public transport arrangements, alternative arrangements need to be agreed with Operator.<br>Install temporary information signage to inform public transport users of changes to services and new stop locations and routes.<br>Provide information for public transport operators for call centres and websites regarding changes to services.                                                                                                                                                                                                                                                                                                                                                             | 12 |
| Seasonal traffic variations – school holidays, public holidays | 15 | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | Maintain regular contact and liaison with TMC and Local Police Command.<br>Schedule work, if possible, to avoid conflict with seasonal traffic increases or conversely to utilise quieter periods to benefit project activities for road related matters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18 |
| Tracking debris onto travel lanes                              | 8  | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | Install primary environmental controls to prevent tracking onto roadways.<br>When required, apply secondary controls (water carts, street sweepers) to remove debris from the road surface.<br>Traffic Control Site Manager to conduct daily inspection and monitoring of road surface conditions, if necessary to assist traffic control to make safe until debris cleared.<br>Report on incident for input into review process (preventive action)                                                                                                                                                                                                                                                                                                                                             | 12 |
| Traffic control at work site                                   | 9  | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | Implement a high standard of traffic controls to warn, inform and guide motorists through the work areas.<br>Develop TGSs in accordance with TfNSW TCAWS, G10 and AS 1742.3 requirements.<br>Long term TGSs to be prepared by SafeWork NSW ‘Prepare traffic management plans and traffic guidance schemes’ ticket holder along with ‘Carry out risk management process’ ticket holder<br>Ensure all staff and subcontractors are trained and certified as competent persons to perform any traffic control task.<br>Site Management Team to conduct regular inspections of traffic controls and assist to rectify minor deficiencies.<br>Conduct regular inspections and audits.<br>Review traffic controls to suit changes to site conditions. Rectify any deficiencies as a matter of urgency. | 12 |
| Unknown Oversize Load Transport                                | 13 | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | Instruct staff to be on the lookout for over dimension loads approaching the work areas, and where required modify the travel paths accordingly.<br>When the over dimension movement seems to be in breach of the TfNSW requirements, record vehicle details and notify TMC.<br>If the vehicle is considered a safety hazard to other road users notify the police.                                                                                                                                                                                                                                                                                                                                                                                                                              | 16 |
| Reduced Lane Widths                                            | 8  | ELIMINATE<br>SUBSTITUTE<br>ISOLATE<br>ENGINEERING<br>ADMINISTRATIVE        | Reduce speed limit throughout site from 50km/h to 40km/h during night works<br>Provide advanced warning signage / notification of changed traffic conditions<br>3.0m lane widths are to be maintained at a minimum and conforming with AGRD<br>Swept paths to be considered for all turns within the work zone if affecting turning paths (Appendices A)                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12 |
| Reduction in edge clearance                                    | 8  | ELIMINATE<br>SUBSTITUTE<br>ISOLATE                                         | Provide advanced warning signage / notification of changed traffic conditions<br>Swept paths to be considered for all turns within the work zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12 |



|  |  |                               |                                                                                                                                                                                                                                                                                       |  |
|--|--|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  | ENGINEERING<br>ADMINISTRATIVE | Lane geometry is to be drafted and designed by a Traffic Engineer to ensure that vehicles can safely travel through the worksite.<br>Risk assessment for 0.3m edge clearance or 0.5m must be maintained<br>Deflection behind concrete barriers to maintain 0.9m unless engineered out |  |
|--|--|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

| APPLICABLE LEGISLATION, STANDARDS, CODES OF PRACTICE AND GUIDANCE MATERIAL |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Hazard/Risk                                                                | Legislation                                                                                                                                                                                                                                                                                                                                                                                                                                      | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Codes of Practice                                                                                                                                                                                                                     | Guidance Materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1. Legal Compliance                                                        | WHS Act 2011 Part 2 Division 3<br>WHS Regulation 2017 Chapter 6 Part 6.3 & Part 6.4<br>Workplace Injury Management & Workers Compensation Act 1998 (NSW)<br>Workplace Injury Management & Workers Compensation Regulation 2002 (NSW)<br>Workers Compensation Act 1987 (NSW)<br>Workers Compensation Regulation 2016 (NSW)<br>Workers' Compensation (Dust Diseases) Act 1942 (NSW)<br>Workers' Compensation (Dust Diseases) Regulation 2013 (NSW) | AS 4801 Occupational Health and Safety Management Systems<br>ISO 9001 Quality Management Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COP: How to manage work health and safety risks<br>COP: Work health and safety consultation, coordination and cooperation<br>COP: Construction work                                                                                   | Guidelines for Health Surveillance – NOHSC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2. Emergency Management                                                    | WHS Act 2011 Part 3<br>WHS Regulation 2017 Chapter 3 Part 3.2 Division 4<br>Workplace Injury Management & Workers Compensation Act 1998 (NSW)<br>Workplace Injury Management & Workers Compensation Regulation 2002 (NSW)<br>Workers Compensation Act 1987 (NSW)<br>Workers Compensation Regulation 2016 (NSW)<br>Workers' Compensation (Dust Diseases) Act 1942 (NSW)<br>Workers' Compensation (Dust Diseases) Regulation 2013 (NSW)            | AS 1885.1 Workplace injury and disease recording standards<br>AS 1319 Safety signs for the occupational environment<br>AS 3745 Planning for emergencies in facilities<br>AS 1851 Maintenance of fire protection systems and equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COP: First aid in the workplace<br>COP: Managing the work environment and facilities<br>COP: Work health and safety consultation, coordination and cooperation<br>COP: Construction work                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3. Plant and Equipment                                                     | WHS Act 2011. Part 2. Division 3<br>WHS Regulation 2017 Chapter 5 Part 5.1 Division 7                                                                                                                                                                                                                                                                                                                                                            | AS 2294 Earth-Moving Machinery - Protective Structures<br>HB 9 Occupational Personal Protection<br>AS 1418 Cranes, hoists and winches<br>AS 2294 Earthmoving machinery – Protective structures<br>AS 2359 Powered industrial trucks<br>AS 2550 Cranes, hoists and winches – safe use<br>AS 2958 Earthmoving Machinery – Safety –Wheeled machines<br>AS 4024 series - Safety of Machinery<br>AS 4987 Earth-Moving Machinery - Tip-over protection structure (TOPS) for compact excavators<br>AS 4991 Lifting devices<br>ISO 8643:1997: Earthmoving machinery–Hydraulic excavator and backhoe loader boom-lowering control device–Requirements and tests.<br>AS 1788.2 Abrasive Wheels - Selection, care and use<br>AS/NZS 3947.3 Low voltage switchgear and control gear, switches, disconnectors, switch-disconnectors and fuse combination units<br>AS 61508.6 Functional safety of safety related systems<br>AS 62061 Safety of machines: Functional safety of safety related electrical, electronic and programmable electronic systems<br>ISO 13849.1 Safety of machinery: Safety-related parts of control systems - General principles<br>ISO 12100 Safety of machinery - General principles for design | COP: Excavation work<br>COP: Managing the risks of plant in the workplace<br>Moving plant on construction sites code of practice<br>Work near overhead power lines code of practice<br>COP: Demolition work<br>COP: Construction work | SWA - Working in the vicinity of overhead and underground electric lines - Guidance material<br>SWA - Cranes guidance material<br>SWA Information sheet - Using powered mobile plant as a crane<br>Guidelines for Integrating OHS into National Industry Training Packages - NOHSC<br>Guidelines for OHS Competency Standards for the Operation of Load shifting Equipment and other Types of Specified Equipment – NOHSC<br>National OHS Certification Standards for Users and Operators of Industrial Equipment - NOHSC<br>National Standard for Plant - NOHSC |
| 5. Traffic                                                                 | WHS Act 2011<br>WHS Regulation 2017 Chapter 4 Part 4.5                                                                                                                                                                                                                                                                                                                                                                                           | AS 1742 Manual of uniform traffic control devices<br>AS 4687 Temporary fencing and hoardings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | COP: Construction work                                                                                                                                                                                                                | Australian Road Rules<br>TfNSW Traffic Control at Worksite Manual Version 6<br>Austroads - Guide to Road Design<br>SWA - Traffic Management Guide: Construction Work<br>SWA - Traffic Management - General Guide<br>SWA - Information Sheet - Traffic Management<br>SWA - Traffic hazard checklist<br>SWA - Traffic control measures checklist<br>TfNSW Specifications: G10 Traffic Management<br>TfNSW Specifications: G22 Work Health and Safety                                                                                                               |

| APPLICABLE LEGISLATION, STANDARDS, CODES OF PRACTICE AND GUIDANCE MATERIAL |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard/Risk                                                                | Legislation                                                                                                 | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                     | Codes of Practice                                                                                                                                                                                                                              | Guidance Materials                                                                                                                                                                                                                                    |
| 6. Manual Handling                                                         | WHS Act 2011<br>WHS Regulation 2017 Chapter 4 Part 4.2                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                              | COP: Hazardous manual tasks<br>COP: How to manage work health and safety risks                                                                                                                                                                 | National Standard for Manual Tasks - NOHSC                                                                                                                                                                                                            |
| 7. Management of Subcontractors                                            | WHS Act 2011 Part 2 Division 3<br>WHS Regulation 2017 Chapter 6 Part 6.3 & Part 6.4                         |                                                                                                                                                                                                                                                                                                                                                                                                                                              | COP: Work health and safety consultation, coordination and cooperation<br>COP: Induction for Construction Work<br>COP: Construction work<br>COP: How to manage work health and safety risks<br>COP: Management risks of plant in the workplace |                                                                                                                                                                                                                                                       |
| 15. Alcohol and Drugs                                                      | WHS Act 2011<br>WHS Regulation 2017                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                              | COP: Work health and safety consultation, coordination and cooperation<br>COP: How to manage work health and safety risks                                                                                                                      |                                                                                                                                                                                                                                                       |
| 16. Travelling to and from Sites                                           | WHS Act 2011<br>WHS Regulation 2017 Chapter 3 Part 3.2                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                              | COP: How to manage work health and safety risks<br>COP: Construction work                                                                                                                                                                      |                                                                                                                                                                                                                                                       |
| 18. Noise                                                                  | WHS Act 2011<br>WHS Regulation 2017 Chapter 4 Part 4.1<br>Protection of the Environment Operations Act 1997 | AS/NZS 1269 Occupational Noise Management<br>AS 2012 Acoustics - Measurement of airborne noise emitted by earth-moving machinery and agricultural tractors<br>AS 1217 Measurement of airborne sound emitted by machines<br>AS 2436 Guide to noise and vibration control on construction, demolition and maintenance sites<br>AS 1055 Acoustics - Description and measurement of environmental noise<br>HB 9 Occupational personal protection | COP: Managing noise and preventing hearing loss at work<br>COP: How to manage work health and safety risks<br>COP: Construction work                                                                                                           | A guide to the Noise Policy for Industry (2017) (EPA)<br>NSW Road Noise Policy (TfNSW)<br>Construction Noise and Vibration Guideline (TfNSW)<br>National Standard for Occupational Noise - NOHSC<br>Control Guide Management of Noise at Work - NOHSC |
| 20. Workplace Environment and Facilities                                   | WHS Act 2011<br>WHS Regulation 2017 Chapter 3 Part 3.2                                                      | AS/NZS 1680 Interior and workplace lighting<br>AS/NZS 1668 The use of ventilation and air conditioning in buildings                                                                                                                                                                                                                                                                                                                          | COP - Amenities for Construction Work - Work cover NSW<br>COP: Managing the work environment and facilities<br>COP: Work health and safety consultation, coordination and cooperation                                                          |                                                                                                                                                                                                                                                       |
| 21. Use of Small Plant                                                     | WHS Act 2011<br>WHS Regulation 2017 Chapter 5 Part 5.1 Division 7                                           | AS ISO 5439 Mechanical vibration - Measurement and vibration of human exposure to hand-transmitted vibration<br>HB 9 Occupational Personal Protection                                                                                                                                                                                                                                                                                        | COP: Construction work<br>COP: Managing the risks of plant in the workplace                                                                                                                                                                    |                                                                                                                                                                                                                                                       |
| 22. Site Access and Egress                                                 | WHS Act 2011<br>WHS Regulation 2017 Chapter 3 Part 3.2                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                              | COP: Construction work<br>Traffic Management: Guide for construction work<br>COP: Demolition Work<br>COP: Excavation Work                                                                                                                      |                                                                                                                                                                                                                                                       |
| 27. Fatigue                                                                | WHS Act 2011<br>WHS Regulation 2017                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                              | COP: Work health and safety consultation, coordination and cooperation<br>COP: How to manage work health and safety risks                                                                                                                      | Guide to managing the risk of fatigue at work                                                                                                                                                                                                         |
| 28. Public / Pedestrians                                                   | WHS Act 2011<br>WHS Regulation 2017                                                                         | AS 4586 Slip resistance classification of pedestrian surface materials<br>AS 4663 Slip resistance measurement of existing pedestrian surfaces<br>AS 1319 Safety signs for the occupational environment                                                                                                                                                                                                                                       | COP: Work health and safety consultation, coordination and cooperation<br>COP: Managing the risk of falls at workplace<br>Preventing Falls in Construction Codes of Practice<br>COP: Construction Work<br>COP: Excavation Work                 |                                                                                                                                                                                                                                                       |
| 30. Night Work                                                             | WHS Act 2011<br>WHS Regulation 2017                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                              | COP: How to manage work health and safety risks<br>COP: Managing the work environment and facilities<br>COP: Construction work                                                                                                                 | Traffic Control at Worksite Manual v6<br>TfNSW Spec G10                                                                                                                                                                                               |
| 31. Bullying, Violence, Harassment                                         | WHS Act 2011<br>WHS Regulation 2017<br>Anti-Discrimination Act 1977                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                              | COP: Work health and safety consultation, coordination and cooperation<br>COP: How to manage work health and safety risks                                                                                                                      |                                                                                                                                                                                                                                                       |

### **10 Annexure E – Traffic Incident Management Plan**

Current Revision – Rev 0



## SITE SPECIFIC INFORMATION

|                                                                         |
|-------------------------------------------------------------------------|
| Site <b>Compound</b> Location: <b>904-928 Mamre Road, Kemps Creek</b>   |
| Site <b>Works</b> Location: <b>904-928 Mamre Road, Kemps Creek</b>      |
| Site access and egress is from access gates <b>via Berriwerri Drive</b> |

## PROJECT CONTACTS

| Position                | Name               | Location         | Phone        |
|-------------------------|--------------------|------------------|--------------|
| Project Manager         | Mustafa Ak         | Site Office      | 0448 913 675 |
| Engineer                | Luke Wood          | Site Office      | 0418 714 678 |
| Site Supervisor         | Tom Weber          | Site Office      | 0400 150 861 |
| Construction Manager    | Joseph Aouad       | Head Office      | 0415 566 359 |
| WHSE Coordinator        | Faten Samaan       | Site/Head Office | 0407 954 102 |
| QSE Systems Team Leader | Faten Samaan       | Head Office      | 0407 954 102 |
| Homebush Office         | Lucinda Bruno (HR) | Head Office      | 0488 017 454 |

|                                                                                                                                                                        |                                                                                                                                                                                                    |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|  <p><b>Mustafa Ak</b><br/><b>0448 913 675</b><br/><b>24 hr Emergency Contact</b></p> |  <p><b>Luke Wood</b><br/><b>0418 714 678</b><br/><b>24 hr Emergency Contact</b><br/><b>First Aid Officer</b></p> | <p><b>Tom Weber</b><br/><b>24 hr Emergency Contact</b><br/><b>First Aid Officer</b></p> |
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## EXTERNAL EMERGENCY CONTACTS

Table 11 List of Emergency Contacts

| Emergency Contact                                                                                                                                                  | Phone          | Authority                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------|
| Ambulance / Fire / Police                                                                                                                                          | 000            | Emergency services            |
| Poisons Information Centre                                                                                                                                         | 131 126        | Poison information            |
| Jemena                                                                                                                                                             | 131 909        | Gas                           |
| Ausgrid                                                                                                                                                            | 131 388        | Electricity authority         |
| Endeavour Energy                                                                                                                                                   | 131 003        | Electricity authority         |
| TransGrid                                                                                                                                                          | 1800 027 253   | Overhead electricity          |
| Sydney Water                                                                                                                                                       | 132 090        | Water service                 |
| AAPT / PowerTel                                                                                                                                                    | 1800 786 306   | Fibre Optic                   |
| Ucomm                                                                                                                                                              | 1300 275 662   | Fibre Optic                   |
| NBN                                                                                                                                                                | 1800 687 626   | Fibre Optic                   |
| AARnet                                                                                                                                                             | 6222 3530      | Fibre Optic                   |
| TPG                                                                                                                                                                | 1300 993 011   | Fibre Optic                   |
| Telstra                                                                                                                                                            | 132 203        | Comms                         |
| Optus                                                                                                                                                              | 1800 505 777   | Comms                         |
| Live Traffic (TfNSW) Information Line                                                                                                                              | 132 701        | Roads Authority               |
| TFNSW – Traffic Management Centre (131 700)                                                                                                                        | 131 700        | Roads Authority               |
| SafeWork NSW                                                                                                                                                       | 131 050        | Work Health Safety Authority  |
| EPA NSW (Environmental Incidents)                                                                                                                                  | 131 555        | Environmental Authority       |
| Before you Dig Australia (BYDA)                                                                                                                                    | 1100           | Underground services          |
| Call BYDA for current service strike contacts or <a href="http://www.1100.com.au/safeexcavation/emergencies">http://www.1100.com.au/safeexcavation/emergencies</a> |                |                               |
| Local Hospital (13.6km)                                                                                                                                            | (02) 9881 1555 | Mt Druitt Hospital            |
| Local Medical Centre (9.7km)                                                                                                                                       | (02) 9620 2880 | Kemps Creek Medical Centre    |
| Local Police Station (8.8km)                                                                                                                                       | (02) 8788 5199 | Wetherill Park Police Station |
| Local Council                                                                                                                                                      | (02) 4732 7777 | Penrith City Council          |

## EMERGENCY EQUIPMENT LOCATIONS

| Equipment         | Type                          | Location             | Inspection/Test Frequency         |
|-------------------|-------------------------------|----------------------|-----------------------------------|
| First aid kit     | Wall mount kit                | Site office Burton   | Quarterly                         |
| First aid kit     | Portable response kit         | Delegates Office     | Quarterly                         |
| First aid kit     | Portable response kit         | Supervisor vehicle   | Quarterly                         |
| First aid kit     | Portable response kit         | Site engineer        | Quarterly                         |
| First aid kit     | Portable response kit         | Leading Hand         | Quarterly                         |
| Spill kit         | 120L response kit             | Site container       | 6 monthly                         |
| Spill kit         | Portable satchel type         | Supervisor vehicle   | 6 monthly                         |
| Spill kit         | Portable satchel type         | Leading hand vehicle | 6 monthly                         |
| Fire Extinguisher | 9kg AB (E) dry chem           | Site Office Burton   | 6 monthly                         |
| Fire Extinguisher | 9kg AB (E) dry chem           | Delegates office     | 6 monthly                         |
| Fire Extinguisher | 9kg AB (E) dry chem           | Container            | 6 monthly                         |
| Fire Extinguisher | 9kg AB (E) dry chem           | Lunchroom            | 6 monthly                         |
| Fire Extinguisher | 9kg AB (E) dry chem           | Toilet               | 6 monthly                         |
| Fire Blanket      | N/A                           | Burton lunchroom     | 6 monthly                         |
| Two-way radio     | Portable handheld ICOM BC-160 | Site office burton   | During emergency evacuation drill |
| Two-way radio     | Portable handheld ICOM BC-160 | Site Supervisor      | During emergency evacuation drill |
| Two-way radio     | Portable handheld ICOM BC-160 | Leading hand         | During emergency evacuation drill |

## EMERGENCY RESPONSE EQUIPMENT RISK ASSESSMENT

| Location of the workplace                                                                                                |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nearest hospital                                                                                                         | Mt Druitt Hospital                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                              |
| Nearest medical centre                                                                                                   | Kemps Creek Medical Centre                                                                                                                                             |                                                                                                                                                                                                                                                                                                                              |
| Maximum time to medical service                                                                                          | 5 minutes (medical centre)                                                                                                                                             |                                                                                                                                                                                                                                                                                                                              |
| Number and composition of workers and other persons at the workplace                                                     |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                              |
| Number of workers                                                                                                        | < 20                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                              |
| Number of other persons                                                                                                  | < 5 (TfNSW etc)                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                              |
| Shifts                                                                                                                   | Day and night                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                              |
| Overtime worked                                                                                                          | TBA                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                              |
| Remote or isolated workers                                                                                               | Nil                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                              |
| Work activities                                                                                                          | Emergency                                                                                                                                                              | Response requirements                                                                                                                                                                                                                                                                                                        |
| Road construction;<br>Asphalting, line marking, spray sealing<br><br>Interaction of workspace with other site activities | Traffic incident – minor – severe injuries of road users.<br>Impact with workers – unlikely although serious / fatal injuries.<br>Fire / explosion from leaking fluids | Ensure no addition personnel placed in danger<br>Assess IP condition<br>Apply First Aid<br>Contact relevant Emergency Services 000<br>Fire extinguishers - Extinguish fire if safe to do so<br>Ensure area is secured and access unobstructed/controlled for emergency services<br>Contact stakeholder; TfNSW, SafeWork etc. |
| Boring, piers & head beam<br><br>Road construction                                                                       | Traffic incident – minor – severe injuries of road users.<br>Impact with workers – unlikely although serious / fatal injuries.<br>Fire / explosion from leaking fluids | Ensure no addition personnel placed in danger<br>Apply First Aid<br>Contact relevant Emergency Services 000<br>Contact stakeholder e.g., Utility Owners, TfNSW, SafeWork NSW etc.                                                                                                                                            |
| Utilities – installation, unexpected finds<br>Trenching<br>Potholing                                                     | Electrocution<br>Contaminated material<br>Minor / serious cuts<br>Impact injuries (pipes etc.)<br>Asbestos                                                             | Ensure no addition personnel placed in danger<br>Apply First Aid<br>Contact relevant Emergency Services 000<br>DBYD<br>Contact stakeholder e.g., Utility Owners, TfNSW, SafeWork NSW etc.                                                                                                                                    |

## TRAFFIC INCIDENT MANAGEMENT PLAN

Procedure: PR-007 Emergency Management

|                                                                                                                                                                                                                                   |                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Excavation (minor)                                                                                                                                                                                                                | Collision / impact<br>Fire<br>Explosion – flammable materials                                                                                                                  | Ensure no addition personnel placed in danger<br>Extinguish fire if safe to do so<br>Apply First Aid<br>Contact relevant Emergency Services 000<br>Contact stakeholder e.g., Utility Owners, TfNSW, SafeWork NSW etc.                                                                                                                                                |
| Chemical spills / leaks<br><br>Use of chemicals for minor tasks                                                                                                                                                                   | Skin contact (likely – possible)<br>Splashback into eye (possible)<br>Inhalation (minor inhalation risk present, severe inhalation risk unlikely)<br>Ingestion (very unlikely) | Ensure no addition personnel placed in danger, maintain awareness of possible chemical splashes or fumes etc.<br>Apply First Aid<br>Contact relevant Emergency Services 000<br>Contact stakeholder e.g., Utility Owners, TfNSW, SafeWork NSW etc.<br><br>First aid kit:<br>Eye wash<br>Others:<br>Fresh air; hand wash; Poisons Info help line<br>Fire extinguishers |
| General construction activities & ground workers<br>Tree removal, trimming, mulching<br>Waste classification, sampling, Geotech investigations<br>Manual work – lifting, pulling, pushing, etc. to undertake general manual tasks | Muscular strains<br>Sprains<br>Cuts / abrasions<br>Friction / other burns<br>Fragments in eyes<br>Animal bites<br>Heat / cold                                                  | Ensure no addition personnel placed in danger<br>Apply First Aid<br>Contact relevant Emergency Services 000<br>Contact stakeholder e.g., Utility Owners, TfNSW, SafeWork NSW etc.<br>Site and Vehicle First Aid Kits                                                                                                                                                 |

### Required first aid and emergency response equipment

|                                            |                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of first aiders needed              | minimum x 1                                                                                                                                                                                                                                                                        |
| Training and competencies for first aiders | Provide First Aid (HLTAID001, HLTAID002, HLTAID003)                                                                                                                                                                                                                                |
| Number and location of kits                | Site office x 1. Additional kits in Supervisor & Engineers vehicles.                                                                                                                                                                                                               |
| Contents of first aid kits                 | Comprehensive workplace kit. – This would be adequate for the site due to the number of workers anticipated not to be >25 at a time.                                                                                                                                               |
| Kit maintenance                            | Inspect and replenish kits quarterly                                                                                                                                                                                                                                               |
| Fire extinguishers                         | Standard type AB(E) sufficient for site – likely locations include plant, lunchroom facilities or hazardous substances. Locations on site for extinguishers include crib room, container & site office. 9kg recommended in order to manage a small site fire or plant engine fire. |
| Spill kits                                 | Container x1. Additional kits in Supervisor & Engineers vehicles.                                                                                                                                                                                                                  |
| Communication equipment                    | Minimum 1 set of 2-way radios                                                                                                                                                                                                                                                      |
| Transportation                             | Company Vehicle at minimum present on site                                                                                                                                                                                                                                         |

|          |                                                                                             |
|----------|---------------------------------------------------------------------------------------------|
| Comments | Close proximity to medical facilities and emergency services– no stretcher or AED required. |
|----------|---------------------------------------------------------------------------------------------|

## TRAFFIC INCIDENT PROCEDURE

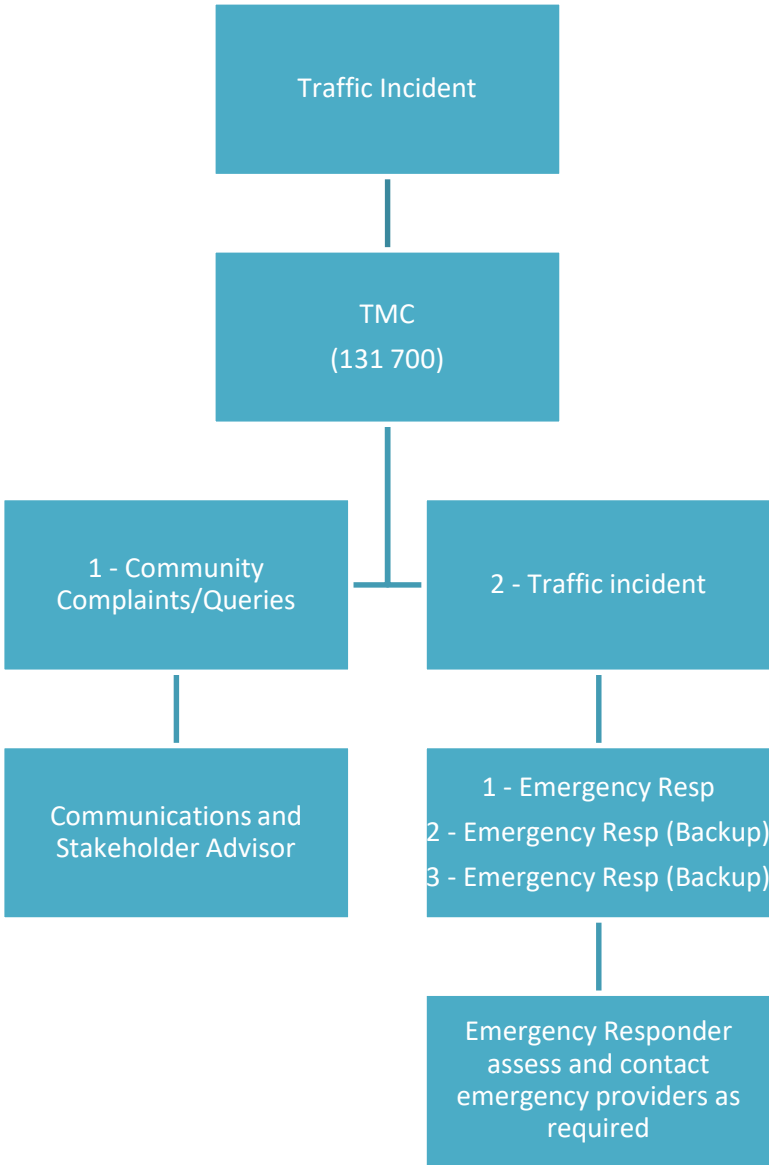
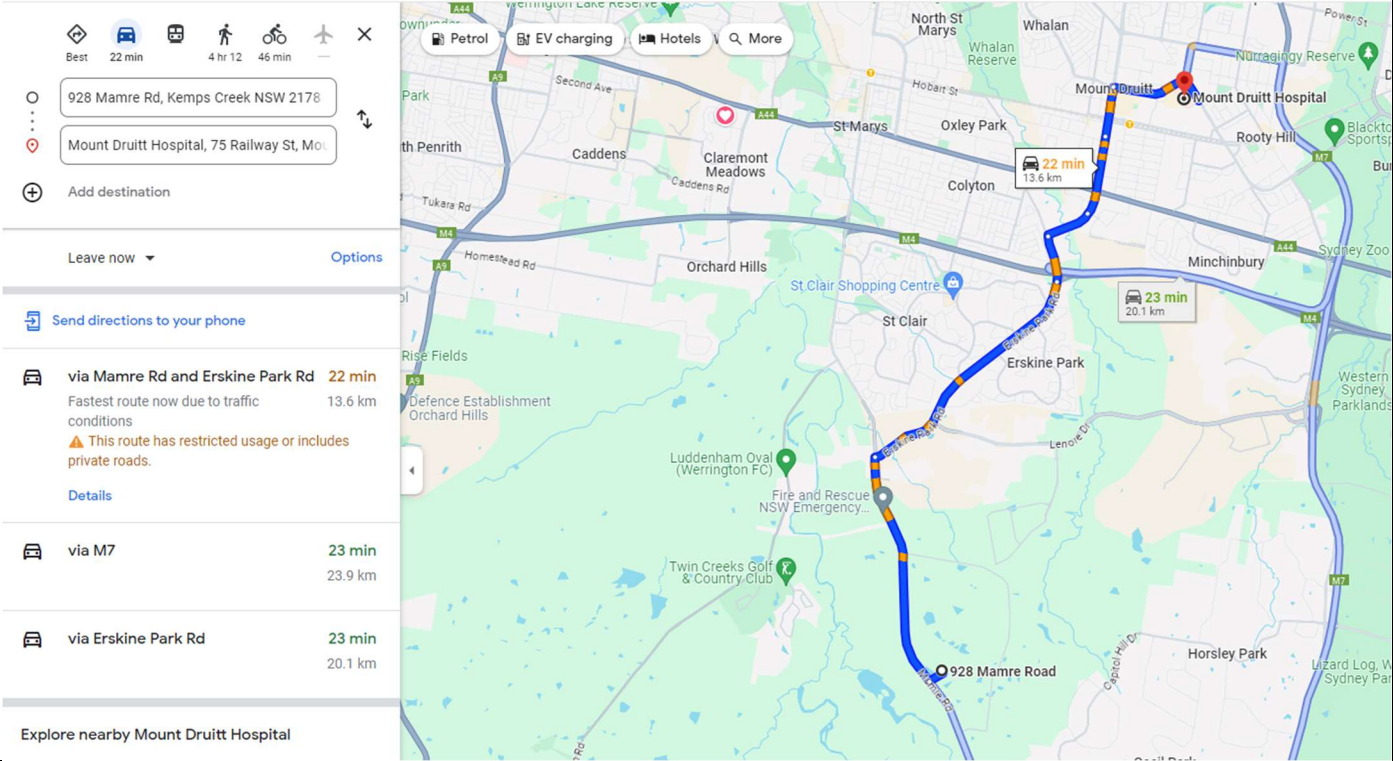


Figure 23 Traffic incident procedure

# TRAFFIC INCIDENT MANAGEMENT PLAN

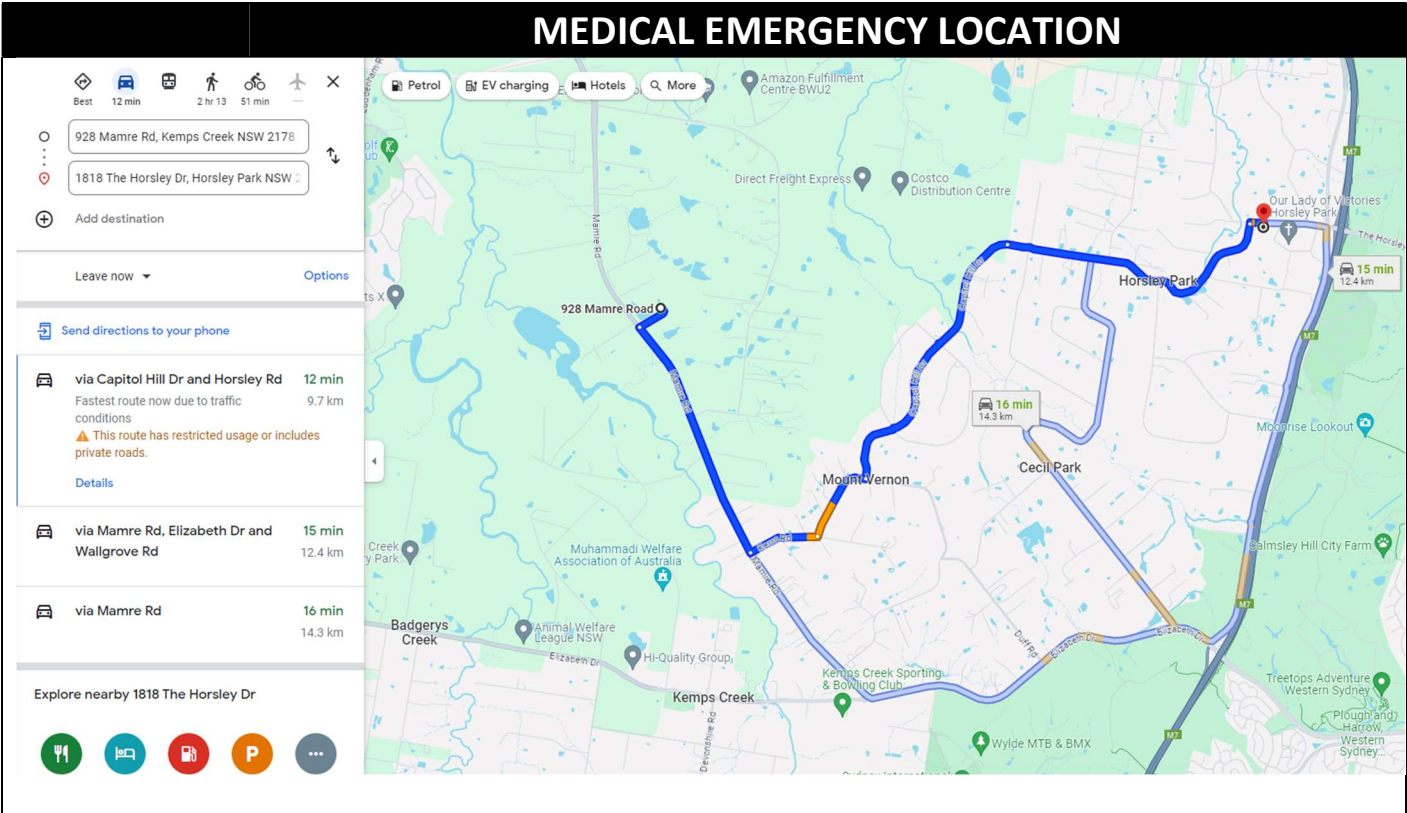
Procedure: PR-007 Emergency Management

| MEDICAL EMERGENCY LOCATION                                                          |                                            |                   |
|-------------------------------------------------------------------------------------|--------------------------------------------|-------------------|
| <b>HOSPITAL – Mt Druitt Hospital</b>                                                | Address – 75 Railway St, Mt Druitt         | Phone – 9881 1555 |
|  |                                            |                   |
| <b>HEALTHCARE CENTRE – Kemps Creek medical centre</b>                               | Address - 1818 The Horsley Dr, Kemps Creek | Phone 9620 2880   |



# TRAFFIC INCIDENT MANAGEMENT PLAN

Procedure: PR-007 Emergency Management



## SITE PLAN – ASSEMBLY AREAS

## GENERAL EMERGENCY RESPONSE & SITE EVACUATION RESPONSE

### DETERMINE TYPE OF EMERGENCY

The type of emergency will determine the response procedure. Is it: MEDICAL, ENVIRONMENTAL – SPILL, FIRE, VEHICLE ACCIDENT etc.?

### RAISE ALARM

Contact the Emergency Services on 000 and provide the following information:

- The exact location of the emergency;
- Type and extent of the emergency; and
- Any special equipment or personnel required for rescue.

Follow all instructions issued by the 000 operator then raise the alarm in the workplace by contacting Emergency Warden or member of your Project Team or fellow workers. Once the Project Team is aware of the situation, they must notify the QSE

Department as soon as possible.

Notify workers to evacuate using most appropriate and available means – 2way radio, mobile phone, runner (verbal).

### CONTAIN INCIDENT – EXTINGUISH FIRE / MOP SPILL

Only attempt to contain the incident if it is safe to do so and you are trained in the use of emergency equipment – fire extinguisher, spill kit.

### EVACUATE TO ASSEMBLY AREA

Check for hazards to ensure workers and others are not at risk from flammable materials, live electricity, exposure to substances. If you are not directly involved in containing the emergency and immediately upon being instructed to evacuate your work location, leave by the designated or safest / direct route.

Ensure all personnel around you are aware of the evacuation and assemble at nominated Evacuation Assembly Area/s to be accounted for. If you are aware of any missing workers, report it to a member of your Emergency Warden or Project Team IMMEDIATELY.

### EVACUATE INJURED PERSONS

Assist and if possible, remove seriously injured persons from the accident area, only if no further danger exists and providing it is safe to do so. Do not disturb the scene of the incident, except to make the area safe.

### FOLLOW INSTRUCTIONS OF EMERGENCY SERVICES

You must remain in assembly area until otherwise instructed for a safe return to your work area by Emergency Services, or your Emergency Warden.

Emergency Wardens and the Project Team must account for all personnel on site and assist Emergency Services Personnel as instructed.

### Incident Notification and Report

If not already done, contact Burton Contractors Business Manager Construction or QSE Team Leader to notify of the event.

A **TP-019 Incident Report** is to be completed post emergency. The report must be forwarded to the QSE Department via email:

[gse@burtoncontractors.com.au](mailto:gse@burtoncontractors.com.au)

## EMERGENCY RESPONSE PLAN

### SITE EMERGENCY SCENARIOS AND RESPONSE PROCEDURES

**ANY LIFE-THREATENING EMERGENCY CALL 000**

**CONTACT SITE SUPERVISOR: Anthony Gobbo – 0437 997 572**

| EMERGENCY                                                                                                     | IMPACT                                                                                                                                                                                                                                                                                                                       | RESPONSE PROTOCOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EQUIPMENT                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General public vehicle incident on site                                                                       | <p>Immediate Injury to drivers and/or workers on site.</p> <p>Escalation of incident with additional vehicles becoming involved in the incident</p> <p>Release of fluids</p> <p>Possibility of Fire</p> <p>Traffic signals struck by vehicle &amp; un-operational</p> <p>Power pole struck by vehicle downing powerlines</p> | <p>Stop work determine if risk of injury or further incident to other workers or plant in the work zone.</p> <p>Notify Site Supervisor</p> <p>Contact emergency services 000</p> <p>Contact Utility Owner (If required)</p> <p>Contact stakeholder;</p> <p>Contact TMC</p> <p>Provide first aid to injured persons (if permitted)</p> <p>UHF radios notify operators to remain away from incident.</p> <p>Traffic control implemented to manage localised traffic (if on-site)</p> <p>Area kept clear for Utility Owners vehicle and/or Emergency services to attend</p> <p>Do not approach any down powerlines and manage area to keep bystanders away</p> <p>Notify Environmental Coordinator for release of fluids only</p>                                                                                                     | <p>Traffic controller &amp; stop/slow bat</p> <p>Traffic cones</p> <p>Bollards</p> <p>First Aid kit &amp; Spill kit</p> <p>Fire extinguisher</p> <p>UHF Radios</p> <p>Spill Kit</p> |
| <p>Plant / vehicle incident on site (contained to work area)</p> <p>Plant collision</p> <p>Plant rollover</p> | <p>Immediate threat or Injury to Operator, drivers, and other workers.</p> <p>Release of fluids</p> <p>Possibility of Fire</p>                                                                                                                                                                                               | <p>Stop work, determine if risk of injury or further incident to other workers or plant exists, if no risk, move plant away from area and await instructions</p> <p>Notify Site Supervisor</p> <p>Contact emergency services 000 (If required)</p> <p>Notify Asset owner (If not Burton)</p> <p>UHF radios notify operators to remain away from incident.</p> <p>Traffic control implemented to manage localised traffic (if on-site)</p> <p>Notify Environmental Coordinator for release of fluids only</p> <p>Apply first aid to injured persons (if any)</p> <p>Attempt to control the spill or extinguish fire if not putting yourself at risk</p> <p>Contain spill within site, use available resources (i.e., spill kits), attempt to contain &amp; prevent entering stormwater system</p> <p>Clean up the affected area</p> | <p>Traffic cones</p> <p>Bollards</p> <p>First Aid kit</p> <p>Spill kit</p> <p>Fire extinguisher</p> <p>Traffic controller &amp; stop/slow bat</p>                                   |

## EMERGENCY RESPONSE PLAN

| EMERGENCY                                                                          | IMPACT                                                                                                                                                    | RESPONSE PROTOCOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EQUIPMENT                                                                                                           |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|                                                                                    |                                                                                                                                                           | Contact stakeholder;<br>Plant / vehicles to remain out of service until repairs or inspection by competent person conducted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                     |
| Overhead Services Strike<br>Power, Street lighting, and communications interrupted | Electric shock to workers<br>Electrical fire<br>Loss of services to public<br>Traffic congestion / delays if across road<br>Damage to Burton's reputation | Stop work determine if risk of injury or further incident to other workers or plant in the work zone or residents.<br>Notify Site Supervisor & TMC<br>Contact emergency services 000 (If required)<br>Contact stakeholder; Utility Owners<br>Apply first aid or CPR to injured worker<br>Ask additional first aiders to assist with CPR (If required)<br>UHF radios notify operators to remain away from incident.<br>Traffic control implemented to manage localised traffic (if on-site)<br>If no immediate danger of fire, operator to stay in cabin until given all clear to move.<br>Exclusion zone to be established around area.<br>Downed power cables are not to be approached.<br>All vehicles/plant to be isolated and no other vehicle permitted in area<br>Area kept clear for Utility Owners vehicle and/or Emergency services to attend<br>Contact residents of service disruption (if any)<br>Contact stakeholders; SafeWork. | Traffic controller & stop/slow bat<br>Traffic cones<br>Bollards<br>First Aid kit<br>Fire extinguisher<br>UHF Radios |
| Underground services strike<br>Sewer, water, Gas and communications                | Loss of services to public<br>Electrocution<br>Contamination of local properties<br>Damage to Burton's reputation<br>Explosion, fire                      | Stop work determine if risk of injury or further incident to other workers, plant in the work zone or residents.<br>Notify Site Supervisor<br>Contact emergency services 000 (If required)<br>Contact stakeholder; Utility Owners<br>Apply first aid or CPR to injured worker<br>Ask additional first aiders to assist with CPR (If required)<br>UHF radios notify operators to remain away from the area.<br>Traffic control implemented to manage localised traffic (if on-site)<br>Exclusion zone to be established around area.<br>All vehicles/plant to be isolated and no other vehicle permitted in area<br>Area kept clear for Utility Owners vehicle and/or Emergency services to attend<br>Contact residents of service disruption (if any)<br>Contact stakeholders; SafeWork.                                                                                                                                                      | First aid kit<br>Fire extinguisher<br>Traffic controller & stop/slow bat<br>Traffic cones<br>Bollards<br>UHF Radios |

## EMERGENCY RESPONSE PLAN

| EMERGENCY                        | IMPACT                                                                                    | RESPONSE PROTOCOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EQUIPMENT                                                                                                                                                                                                                          |
|----------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Excavation / Trench Collapse     | Engulfment - Workers exposed to Life threatening injuries.                                | <p>Stop work</p> <p>Advise other workers to evacuate trench</p> <p>Notify Site Supervisor</p> <p>Contact emergency services 000</p> <p>Apply first aid to injured worker</p> <p>UHF radio notify all workers to remain away from area.</p> <p>Traffic control implemented to manage localised traffic (if on-site)</p> <p>Exclusion zone to be established around area.</p> <p>Area kept clear for Emergency services to attend</p> <p>If risk of further collapse do not enter area or attempt rescue</p> <p>Attempt to identify, locate the position and number of the trapped workers.</p> <p>If person visible (if safe to do so) remove as much material as possible to ensure they can breathe.</p> <p>Contact stakeholders; SafeWork.</p> | <p>Hand Tools</p> <p>Ladders</p> <p>Excavators</p> <p>Traffic controller &amp; stop/slow bat</p> <p>First Aid kit</p> <p>Bollards</p> <p>Flagging</p> <p>Emergency Services – Police, Ambulance, Fire/Rescue</p> <p>UHF Radios</p> |
| Fall from Height                 | Injured worker / potential death of a person                                              | <p>Assess the situation- Do not attempt to move the injured person</p> <p>Stop work determine if risk of injury or further incident to other workers or plant in the work zone.</p> <p>Notify Site Supervisor</p> <p>Contact emergency Services 000</p> <p>UHF radio notify all workers to remain away from area.</p> <p>Traffic control implemented to manage localised traffic (if on-site)</p> <p>Exclusion zone to be established around area.</p> <p>Apply first aid to injured worker</p> <p>Area kept clear for Emergency services to attend</p> <p>Contact stakeholders; SafeWork.</p>                                                                                                                                                   | <p>Traffic controller &amp; stop/slow bat</p> <p>First Aid kit</p> <p>Bollards</p> <p>Flagging</p> <p>Emergency Services – Police, Ambulance, Fire/Rescue</p> <p>UHF Radios</p>                                                    |
| Unexpected Find                  | Discovery of: Asbestos, other hazardous substances, aboriginal, archaeological, heritage. | <p>Stop work</p> <p>Notify Site Supervisor</p> <p>Notify all workers to remain away from area</p> <p>Isolate area and install signage</p> <p>Notify relevant authorities</p> <p>Do not re-enter until advised by authorities / relevant consultants</p> <p>Contact stakeholder;</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>Bollards</p> <p>Flagging</p> <p>Signage – exclusion zone</p> <p>UHF Radios</p>                                                                                                                                                  |
| Other external emergency – e.g.; | An external emergency outside construction site                                           | <p>Stop work and turn off machines</p> <p>Notify Site Supervisor</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>Emergency Services – Fire/Rescue,</p>                                                                                                                                                                                           |

## EMERGENCY RESPONSE PLAN

| EMERGENCY                                                                                                                | IMPACT                                                                          | RESPONSE PROTOCOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EQUIPMENT                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Incident at adjoining properties that continued work operations could affect emergency response and continued operation. |                                                                                 | UHF radio Notify all workers to remain away from area<br>Contact emergency services 000 (if required)<br>Stop work and prepare to evacuate area (if required).<br>Contact stakeholder;                                                                                                                                                                                                                                                                                                  | Ambulance or Police<br>UHF Radios                                                                                                            |
| Plant fire                                                                                                               | Plant damage<br>Injury to workers                                               | Stop work and turn off machine<br>Evacuate plant<br>Notify Site Supervisor<br>Contact Fire/Rescue 000 (if required)<br>Ensure no addition personnel placed in danger<br>Assess IP condition<br>Apply First Aid<br>UHF radio Notify all workers to remain away from area<br>Traffic control implemented to manage localised traffic (if on-site)<br>If no risk to workers attempt to extinguish fire if safe to do so<br>Isolate area<br>Contact stakeholders; Utility Owners, SafeWork. | Fire extinguisher<br>First aid kit<br>Hose / water cart<br>Barricading<br>Traffic controller to direct traffic & stop/slow bat<br>UHF Radios |
| Medical emergency – other<br>E.g., Heart attack                                                                          | Injured worker / potential death of a person                                    | Remain calm, assess the situation.<br>Do not attempt to move the injured person<br>Notify Site Supervisor<br>Contact Ambulance 000<br>UHF radio Notify all workers to remain away from area<br>Traffic control implemented to manage localised traffic (if on-site)<br>Assess IP condition<br>Commence CPR until ambulance arrives or first aid as required<br>Ask additional first aiders to assist with CPR<br>Contact stakeholder; SafeWork                                          | First Aid Kit<br>UHF Radios                                                                                                                  |
| Localised site fire                                                                                                      | Placing human life and property at risk.<br>Death or injury to flora and fauna. | Stop work in area<br>If no risk to persons remove any flammable or combustible materials from the area of the fire.<br>Contact Fire/Rescue 000<br>Notify Site Supervisor                                                                                                                                                                                                                                                                                                                | Hose / water cart<br>Fire Extinguishers<br>Barricading<br>First Aid Kit<br>Traffic controller to                                             |

## EMERGENCY RESPONSE PLAN

| EMERGENCY                            | IMPACT                                                                                                     | RESPONSE PROTOCOL                                                                                                                                                                                                                                                                                                                                                                                                                                      | EQUIPMENT                                                                                   |
|--------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                      |                                                                                                            | Ensure no addition personnel placed in danger<br>Assess IP condition<br>Apply First Aid<br>UHF radio Notify all workers to remain away from area<br>Traffic control implemented to manage localised traffic (if on-site)<br>Contact stakeholder<br>If no risk to workers attempt to extinguish fire if safe to do so<br>Isolate area                                                                                                                   | direct traffic &<br>stop/slow bat<br>UHF Radios                                             |
| Uncontrolled Sediment Discharge      | Discharge of sediment laden water                                                                          | Stop work, control source of sediment (e.g., divert water around stockpiles).<br>Install additional sediment controls such as gravel inlet filters and sediment fences.<br>Notify site supervisor & Environmental Coordinator<br>Contact stakeholder                                                                                                                                                                                                   | Spill Kits<br>Mobile Plant<br>UHF Radios                                                    |
| Substance spill – Oil, Diesel        | Discharge of oily water to storm water.<br>Contamination of soil and groundwater.<br>Damage to reputation. | Stop in the area where the spill occurred.<br>Notify site supervisor & Environmental Coordinator<br>Spill response kits are kept at all sites for deployment in the event of an oil spill.<br>Attempt to control the spill if not putting yourself at risk<br>Contain spill within site, use available resources (i.e., spill kits), attempt to contain & prevent entering stormwater system<br>Clean up the affected area<br>Contact stakeholder      | Spill Kit<br>Wash facilities<br>PPE as per SDS requirements<br>UHF Radios                   |
| Substance Spill – Chemical           | Discharge of chemicals to storm water.<br>Contamination of soil and groundwater.<br>Damage to reputation.  | Stop work in the area where the spill occurred.<br>Notify site supervisor & Environmental Coordinator<br>Spill response kits are kept at all sites for deployment in the event of an oil spill.<br>Attempt to control the spill if not putting yourself at risk<br>Contain spill within site, use available resources (i.e., spill kits), attempt to contain & prevent entering stormwater system<br>Clean up the affected area<br>Contact stakeholder | Spill Kits<br>First aid kit<br>Wash facilities<br>PPE as per SDS requirements<br>UHF Radios |
| Flooding into open Excavation and/or | Flooding damage to assets<br>Fall into Trench/Excavation-                                                  | Notify Site Supervisor<br>Ensure no addition personnel placed in danger                                                                                                                                                                                                                                                                                                                                                                                | Submersible pump<br>Vac Truck                                                               |



## EMERGENCY RESPONSE PLAN

| EMERGENCY | IMPACT                                                                                | RESPONSE PROTOCOL                                                                                                                                                                                                                                                                                                                                                                                             | EQUIPMENT                                                                                    |
|-----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Trench    | injury or death caused by drowning<br>Engulfment –<br>Trench/Excavation Wall collapse | Contact Emergency Services 000<br>Assess IP condition<br>Apply First Aid and/or commence CPR<br>Ask additional first aiders to assist with CPR<br>UHF radio Notify all workers to remain away from area<br>Traffic control implemented to manage localised traffic (if on-site)<br>Contact stakeholder e.g., Utility Owners, SafeWork<br>Isolate area<br>Park all plant above and/or away from the flood AREA | Barricading and/or ATF<br>Traffic controller to direct traffic & stop/slow bat<br>UHF Radios |

# DRSABCD

IN AN EMERGENCY CALL **TRIPLE ZERO (000)** FOR AN AMBULANCE



|   |                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| D | <h2 style="text-align: center; margin: 0;">Dangers?</h2> <p style="text-align: center; margin: 0;">Ensure the area is safe for yourself, others and the patient.</p>                                                                                                                                                                                                    |    |
| R | <h2 style="text-align: center; margin: 0;">Responsive?</h2> <p style="text-align: center; margin: 0;">Check for a response: ask name, squeeze shoulders.<br/><b>No response?</b> Send for help.<br/><b>Response?</b> Make comfortable and monitor response.</p>                                                                                                         |    |
| S | <h2 style="text-align: center; margin: 0;">Send for help</h2> <p style="text-align: center; margin: 0;">Call triple zero (000) for an ambulance or ask another person to make the call.</p>                                                                                                                                                                             |   |
| A | <h2 style="text-align: center; margin: 0;">Open Airway</h2> <p style="text-align: center; margin: 0;">Open the mouth and check the airway for foreign material.<br/><b>Foreign material?</b> Place in the recovery position and clear the airway.<br/><b>No foreign material?</b> Leave in position.<br/>Open the airway by tilting the head back with a chin lift.</p> |  |
| B | <h2 style="text-align: center; margin: 0;">Normal Breathing?</h2> <p style="text-align: center; margin: 0;">Check for breathing: look, listen, feel for 10 seconds.<br/><b>Not normal breathing?</b> Ensure an ambulance has been called; start CPR.<br/><b>Normal breathing?</b> Place in the recovery position and monitor breathing.</p>                             |  |
| C | <h2 style="text-align: center; margin: 0;">Start CPR</h2> <p style="text-align: center; margin: 0;">30 chest compressions : 2 breaths.<br/>Continue CPR until help arrives or the patient starts breathing.</p>                                                                                                                                                         |  |
| D | <h2 style="text-align: center; margin: 0;">Attach defibrillator (AED)</h2> <p style="text-align: center; margin: 0;">and follow the voice prompts.</p>                                                                                                                                                                                                                  |  |

**Learn first aid • 1300 ST JOHN • [www.stjohn.org.au](http://www.stjohn.org.au)**

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**Acknowledgement of ERP**

I acknowledge that I have been inducted into this Emergency Response Plan and have read and understood the contents. I understand my responsibilities and what is required of me should an emergency occur.

| Name         | Position/Role                                             | Signature | Date |
|--------------|-----------------------------------------------------------|-----------|------|
| Tom Weber    | Site Supervisor/<br>Emergency Warden<br>First Aid Officer |           |      |
| Mustafa Ak   | Project Manager                                           |           |      |
| Faten Samaan | First Aid Officer                                         |           |      |
| Luke Wood    | First Aid Officer                                         |           |      |

## 11 Annexure F – Environmental Impact Statement Excerpt

### Environmental Impact Statement

SSD-17647189 – Proposed Warehouse and Logistics Hub  
884-928 Mamre Road, Kemps Creek (Lots 52-53 DP 259135)

### PART G PLANNED MANAGEMENT AND MITIGATION MEASURES FOR THE PROPOSED DEVELOPMENT

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| <b>By:</b>             | Altis Property Partners (Altis)                                                           |
| <b>In relation to:</b> | Proposed State Significant Development Application (Proposed Warehouse and Logistics Hub) |
| <b>Site:</b>           | 884-928 Mamre Road, Kemps Creek (Lots 52-53 DP 259135)                                    |

Altis, plan to undertake the construction and operation of the proposed Warehouse and Logistics Hub, in accordance with the following:

Below prescribes some of the terms and abbreviations used in this Statement, including:

|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| <b>Approval</b>            | The Minister's Approval of the Proposed Development   |
| <b>BCA</b>                 | Building Code of Australia                            |
| <b>Council</b>             | Penrith City Council                                  |
| <b>Department</b>          | Department of Planning, Industry and Environment      |
| <b>EIS</b>                 | Environmental Impact Statement                        |
| <b>EP&amp;A Act 1979</b>   | <i>Environmental Planning and Assessment Act 1979</i> |
| <b>Project</b>             | The Proposed Development as described in this EIS     |
| <b>Proponent</b>           | Altis Property Partners                               |
| <b>Secretary General</b>   | Secretary General of the Department (or delegate)     |
| <b>Site / Subject Site</b> | Land to which the project application applies         |
| <b>WorkCover</b>           | NSW WorkCover                                         |

#### 7.1 ADMINISTRATIVE COMMITMENTS

##### Commitment to Minimise Harm to the Environment

- Altis will commit to implement all reasonable and feasible measures, to prevent and / or minimise any harm to the environment, that may result from the construction or operation of the Proposed Development.

##### Construction Certificates

- Altis will ensure that a staged approach will be taken to obtain relevant Construction Certificates with respect to the respective construction stages.

##### Occupation Certificate

- Altis will ensure that a staged Interim and Final Occupation Certificate, are obtained prior to the occupation of each section of the warehouse building.

##### Terms of Approval

- Altis would carry out the Project generally in accordance with the:
  - Environmental Impact Statement;
  - Drawings prepared by Nettleton Tribe;
  - Management and Mitigation Measures;
  - Any Conditions of Approval (including operational use of the Site 24/7).
- If there is any inconsistency between the above, the Conditions of Approval shall prevail to the extent of the inconsistency.

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WILLOW TREE CONSULTING





## **Environmental Impact Statement**

SSD-17647189 – Proposed Warehouse and Logistics Hub  
884-928 Mamre Road, Kemps Creek (Lots 52-53 DP 259135)

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6. Altis would ensure compliance with any reasonable requirement(s) of the Secretary-General of the Department of Planning, Industry and Environment arising from the Department's assessment of:
  - a) Any reports, plans, programs, strategies or correspondence that are submitted in relation to this Approval; and
  - b) The implementation of any recommended actions or measures contained in reports, plans, programs, strategies or correspondence submitted by the Project Team as part of the application for Approval.

## **Structural Adequacy**

7. Altis would ensure that all new buildings and structures on the Site are constructed in accordance with the relevant requirements of the BCA.

## **Operation of Plant and Equipment**

8. Altis would ensure that all plant and equipment used on-site, is maintained and operated in proper and efficient manner, and in accordance with relevant NSW EPA noise emission criteria and Australian Standards.

## **Construction Traffic Management Plan**

9. Altis would ensure that a Construction Traffic Management Plan (CTMP) is prepared and submitted to the NSW DPIE. This plan would:
  - a) be submitted to the Secretary-General for approval prior to the commencement of construction;
  - b) describe the traffic volumes and movements to occur during construction;
  - c) detail proposed measures to minimise the impact of construction traffic on the surrounding network, including driver behaviour and vehicle maintenance; and,
  - d) detail the procedures to be implemented in the event of a complaint from the public regarding construction traffic.
  - e) be in accordance with the CTMP prepared by Ason Group

## **Construction Environmental Management Plan**

10. Prior to the commencement of construction, a Construction Environmental Management Plan (CEMP) would be prepared that addresses the following:
  - a) Land Contamination;
  - b) Air Quality;
  - c) Waste Classification;
  - d) Erosion and Sediment Control; and,
  - e) Materials Management Plan.

## **Monitoring the State of Roadways**

11. The Proponent will monitor the state of roadways leading to and from the Subject Site and will take all necessary steps to clean up any adversely impacted road pavements as directed by Council.

## **Waste Receipts**

12. A permanent record of receipts for the removal of both liquid and solid waste from the site should be kept and maintained up to date at all times. Such records will be made available to authorised person upon request.

## Environmental Impact Statement

SSD-17647189 – Proposed Warehouse and Logistics Hub  
884 928 Mamre Road, Kemps Creek (Lots 52 53 DP 259135)

## 7.2 SPECIFIC ENVIRONMENTAL COMMITMENTS

### General Noise Recommendations

13. Construction on the Subject Site would only be undertaken between 7am and 6pm Monday to Friday, and 8am and 1pm on Saturdays. No construction will be permitted at the Subject Site on Sundays or public holidays. The following specific measures are proposed throughout the construction and operational phases of development:
  - a) Prompt response to any community issues of concern;
  - b) Noise monitoring on-site and within the surrounding areas;
  - c) Refinement of on-site noise mitigation measures and plant operating procedures where practical;
  - d) Preparation of a formal noise management plan including noise monitoring program;
  - e) For equipment with enclosures (i.e. compressor rooms) ensure door and seals are well maintained and kept closed when not in use;
  - f) Keep plant and equipment well maintained, regular inspection and maintenance of equipment to ensure it is good working order;
  - g) Equipment not to be operated until it is maintained or repaired;
  - h) Regularly train workers (i.e. toolbox talks) to use equipment in ways to minimise noise;
  - i) Operate mobile plant in a quiet, efficient manner;
  - j) Switching off vehicles and plant when not in use; and,
  - k) Incorporate clear signage at the site including relevant contact numbers for community enquiries.
14. Acoustic barriers shall be constructed to the height and extent shown in **Figure 62**. The acoustic barriers should be constructed using either masonry, 9mm fibre cement sheet, Hebel, or other materials with a minimum surface density of 9kg/m<sup>2</sup> and shall be free of gaps and holes.
15. All acoustic barriers are only required while the residential dwelling at receivers 2 is occupied. If the receivers are demolished to make way for potential industrial developments, the barriers will no longer be required. Therefore, temporary acoustic barriers may be used, provided that they achieve a minimum surface density of 9kg/m<sup>2</sup> and are free of gaps and holes. Suitable materials may include construction hoarding that consists of minimum 18mm plywood or other materials that achieve the minimum required surface density. Alternatively, ISO shipping containers may be stacked to the required height in locations requiring acoustic barriers.
16. The acoustic barrier for Lot 2 may be replaced with a solid gap-free wall to the full height of the loading dock awning, on the condition that the materials used achieve a minimum surface density of 9kg/m<sup>2</sup>. Like the acoustic barrier, the solid wall may be removed when the dwelling at receiver 2 is no longer occupied.

### Construction Noise Recommendations:

17. Comply with the Construction Noise and Vibration Management Plan prepared by Acoustic Works (1020168 R02B 884-928 Mamre Road Kemps Creek CNVMP.doc dated 14 July 2021).
18. If further noise mitigation is required, acoustic barriers around the perimeter of the site can be installed during the works. If further noise reductions are required, install additional screening around noise sensitive areas.
19. Workers or delivery trucks do not congregate at or outside the site before 7am. This is an important factor in managing noise from the Site.
20. Assign the task of managing noise emissions to a person (the 'responsible person') that is likely to be present on-site most of the time that activity is occurring (usually the Site Manager). This person would be responsible for handling noise complaints, and ensuring that work does not commence before the specified allowable times. The name and contact details of the 'responsible person' should be displayed outside the principal construction office.
21. If complaints arise regarding noise, the complaint will be directed to the 'responsible person', who will determine the source of the noise, and take immediate steps to investigate further or



## Environmental Impact Statement

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- mitigate the noise as required. This may involve moving the noise source further away from affected premises, replacing the equipment, installing high performance silencers, or in some cases, engaging a qualified acoustic consultant to provide specialist control advice.
22. If complaints arise regarding noise, the complaint will be directed to the 'responsible person', who will determine the source of the noise, and take immediate steps to investigate further or mitigate the noise as required. This may involve moving the noise source further away from affected premises, replacing the equipment, installing high performance silencers, or in some cases, engaging a qualified acoustic consultant to provide specialist control advice.
  23. The Responsible Person should notify the adjacent residential premises of the intention to commence work that may cause adverse impacts on surrounding residents. If plant is to be operated in close proximity to residential premises, the Responsible Person should advise the occupants of the premises the length of time that the plant will be in operation proximate to the property boundary.
  24. Any moveable plant (e.g. compressors) should be located as far as practical from the residential premises.
  25. The Responsible Person maintain a record of complaints, which records the following details (refer to the example complaint record sheet in the appendix to this plan):
    - The time and date of lodgement of the complaint;
    - The name and telephone number of the complainant;
    - The nature of the complaint, including a description of the noise (e.g. likely noise source, duration of the noise event - is the noise continuous, or of a short duration);
    - The outcome of the investigation.
  26. If a complaint is raised regarding a particular piece of plant, the plant shall be inspected for working condition, with particular attention given to the condition of engine covers or enclosures, and exhaust system. If machinery is in good condition, a high performance silencer should be installed.

## Construction Vibration Control

27. If complaints are received from neighbouring residents regarding vibration during earthworks and basic infrastructure works, we recommend continued vibration monitoring at the receiver location with SMS warning system issued to the responsible persons onsite. The Responsible Person shall cease works that may be causing the vibration intrusion and engage a qualified person to determine suitable management and physical controls to reduce excessive vibration to compliant levels from demolition works. If excessive vibration is determined, works generating the vibration cannot resume until satisfactory mitigation treatment is implemented.

## Construction Traffic

28. Comply with the Construction Traffic Management Plan prepared by Ason Group dated 30 June 2021.
29. During construction:
  - a) all trucks entering or leaving the Site with loads, will have their loads covered;
  - b) trucks associated with the project do not track dirt onto the public road network; and,
  - c) the public roads used by these trucks are to be kept clean.

## Dust Management

30. During the construction phase of the project, all reasonable and feasible measures to minimise dust generation by the project. These include:

| Source            | Control Measures                                                                                                                                                                                           |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>    |                                                                                                                                                                                                            |
| Visual Inspection | Carry out visual inspections of the Subject Site during site preparatory and construction activities and employ measures (where necessary) to minimise any visible air pollution generated by the Project. |



|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regular Maintenance                    | Regularly inspect and perform maintenance on dust control using the latest technologies (i.e. water sprays nozzles) and measures to ensure the effectiveness of such controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Erosion Control Structures             | Silt and other material removed frequently from around erosion control structures to ensure deposits do not become a dust source.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Vegetated Buffers                      | Retain existing vegetation, where appropriate and implementing additional vegetated buffers around the boundary of the Site to provide a physical barrier to the transportation of pollutants in the direction of sensitive receptors.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Waste Materials                        | <p>Cleared vegetation, demolition materials and other combustible waste material will not be burnt on-site.</p> <p>All waste materials be appropriately contained (in skips, bins) and covered during adverse weather conditions and handled in accordance with the Subject Site's Waste Management Plan.</p>                                                                                                                                                                                                                                                                                                                                                  |
| <b>Wind Blown Dust Sources</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Disturbed Areas                        | <ul style="list-style-type: none"> <li>– Disturb only the minimum area necessary.</li> <li>– Stabilise all disturbed areas as soon as practicable to prevent or minimise windblown dust.</li> <li>– Regularly assess weather conditions to identify adverse weather conditions that are unfavourable in terms of dust levels at receptor locations surrounding the Site (such as on dry days, during strong winds, particularly north easterly winds blowing in direction of the school(s) along Bakers Lane).</li> </ul>                                                                                                                                      |
| Stockpile/s                            | <ul style="list-style-type: none"> <li>– Water sprays and/or covers will be employed for material stockpiles, particularly during adverse weather conditions, to minimise dust generation.</li> <li>– Stockpiles will be covered overnight.</li> <li>– Use of chemical dust suppressants will also be used where necessary.</li> <li>– Fencing, bunding or shelterbelts will be used to reduce ambient wind speeds (in some areas).</li> </ul>                                                                                                                                                                                                                 |
| Transportation (Trucks)                | <ul style="list-style-type: none"> <li>– Truck loads will be covered with tarpaulin or lid prior to transport of dusty materials by road.</li> <li>– Minimise truck queuing and unnecessary trips through logistical planning of materials delivery and work practices.</li> <li>– Reduce vehicle / truck idling times.</li> <li>– Maintain a following distance of trucks of 20 seconds minimum to allow for dust clouds generated by the lead truck to dissipate.</li> <li>– Install a truck wheel wash or shaker grid to remove any loose dirt.</li> </ul>                                                                                                  |
| <b>Activity Generated Dust Sources</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Internal Road Dust                     | <ul style="list-style-type: none"> <li>– Roads and trafficked areas will be watered down using a water-cart and/or sprinklers to minimise the generation of dust.</li> <li>– Haulage vehicles will be restricted to the most direct route and minimal manoeuvring areas to prevent indiscriminate driving over non-active areas.</li> <li>– Haul roads and hard stand areas will have designated speed limits (i.e. generally 20 km/hour).</li> <li>– Enforce speed limits on all on-site vehicles to minimise wheel-generated dust.</li> <li>– Stabilise access roads and work areas as soon as practicable to prevent or minimise windblown dust.</li> </ul> |

|                              |                                                                                                                                                                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | <ul style="list-style-type: none"> <li>– Maintain roads on a regular basis to ensure roads are clearly marked, pot holes and corrugations are eliminated, and extra material build up is removed or redistributed on the road.</li> <li>– Chemical dust suppressants used where necessary.</li> </ul>                   |
| External Road Dust           | <ul style="list-style-type: none"> <li>– Vehicles causing dirt tracks out onto main roads would be cleaned on a regular basis to prevent this becoming an additional source of dust.</li> <li>– Material spillages would be cleaned up promptly.</li> </ul>                                                             |
| Excavation                   | <ul style="list-style-type: none"> <li>– Apply water sprays to trucks and loading points for dust suppression.</li> </ul>                                                                                                                                                                                               |
| Loading and Dumping          | <ul style="list-style-type: none"> <li>– Dump heights will be minimised wherever possible (reduce to 8 m).</li> </ul>                                                                                                                                                                                                   |
| Plant and Equipment          | <ul style="list-style-type: none"> <li>– All plant and equipment used during activities will be maintained and operated in a proper and efficient condition.</li> <li>– Reduce idling times of trucks and other machinery.</li> <li>– Fixed plant should be located as far from local receptors as possible.</li> </ul> |
| <b>Excessive Dust Events</b> |                                                                                                                                                                                                                                                                                                                         |
| Internal Roads               | <ul style="list-style-type: none"> <li>– Employ additional water spraying / water carts.</li> <li>– Further reduce speed on haul roads during high winds.</li> <li>– Halt traffic movements.</li> </ul>                                                                                                                 |
| Stockpiles                   | <ul style="list-style-type: none"> <li>– Cover stockpiles of material.</li> </ul>                                                                                                                                                                                                                                       |
| Project Site                 | <ul style="list-style-type: none"> <li>– Temporarily halt activities and resume once weather conditions have improved.</li> </ul>                                                                                                                                                                                       |

## **Contamination**

31. Hazardous building materials survey (HBMS) of site structures to be undertaken prior to demolition.

## **Waste Management**

32. Altis will ensure that all waste generated on-site during operation is classified in accordance with the Office of Environmental and Heritage's *Waste Classification Guidelines: Part 1 Classifying Waste* and disposed of to a facility that may lawfully accept the waste.

## **Erosion and Sediment Control**

33. Altis will install silt traps during the construction phase to ensure there are no pollutants or sediments that exit the site or unacceptable impacts result on surrounding vegetation or waterways.

## **Protection of Vegetation**

34. Altis will mark the clearance boundaries prior to commencement of construction to ensure that there is no unnecessary removal of vegetation.

## **Aboriginal Heritage**

35. Before any works occur, it is recommended that the following mitigation measures are implemented:
- a) All Aboriginal objects collected during the archaeological testing be reburied onsite.
36. No further assessment or works are required to be undertaken in terms of Aboriginal cultural heritage for the study area. If during the project, unexpected finds or human remains, please follow recommendation 37.



37. In the event that human remains are identified, all works in the vicinity must cease immediately. The find must be left in place and protected from any further harm. Depending on the nature of the find, the following processes must be followed
  - a) If, human skeletal remains are encountered, all work must cease immediately and NSW Police must be contacted, they will then notify the Coroner's Office. Following this, if the remains are believed to be of Aboriginal origin, then the Aboriginal stakeholders and Heritage NSW must be notified.
37. It is recommended that the proponent continues to inform the Aboriginal stakeholders about the management of Aboriginal cultural heritage within the study area throughout the completion of the project. The consultation outlined as part of this ACHA is valid for 6 months and must be maintained by the proponent for it to remain continuous. If a gap of more than 6 months occurs, then the consultation will not be suitable for the project and may need to re-commence.
38. A copy of this report should be forwarded to all Aboriginal stakeholder groups who have registered an interest in the project.

## **Non-Aboriginal Cultural Heritage**

39. No further heritage investigations or mitigation strategies are warranted in terms of historical heritage values in or surrounding the study area, and works can be undertaken as planned.
40. If historical archaeological relics not assessed or anticipated by this report are found during the works, all works in the immediate vicinity are to cease immediately and Heritage NSW are to be notified in accordance with the NSW Heritage Act 1974. A qualified archaeologist is to be contacted to assess the situation and consult with Heritage NSW regarding the most appropriate course of action.
41. Should the actual development be altered significantly from the design considered in this assessment then a reassessment of the heritage/archaeological impact may be required. This includes any impacts not explicitly stated in Section 8.
42. A copy of this assessment should be lodged by the proponent in the local history section of the local library, and in the library maintained by Heritage NSW.

## **Ecologically Sustainable Development**

43. Altis would investigate the following ESD measures in respect of:
  - (a) Energy & Greenhouse Gas Emissions.
  - (b) Potable water reduction.
  - (c) Minimising waste to landfill.
  - (d) The Indoor Environment.
  - (e) Occupant amenity and comfort.
  - (f) Land Use and Ecology.
  - (g) Emissions.
  - (h) Building Management.

## **Bushfire Protection**

44. Public road design and construction is to comply with Table 5.3b of PBP. An exemption is the interim single access road may be longer than 200 m.
45. The entire site is to be maintained to achieve the performance requirement of an Inner Protection Area (IPA) as described by Appendix 4 of PBP. The following landscaping specifications can be followed to achieve an IPA standard at this site:
  - a) Trees:
    - i. Trees at maturity should not touch or overhang the building;
    - ii. Tree canopies should not be connected when at maturity. Gaps between crowns or groups of crowns are to be maintained at distances of 2 to 5m.
  - b) Shrubs:
    - i. Ensure gaps in the vegetation, such as between garden beds, to prevent the spread of fire towards the building;

- ii. Clumps of shrubs should be separated from glazing and doors by a distance of at least twice the height of the vegetation.
- c) Groundcovers:
  - i. Grass should be kept mown (as a guide grass should be kept to no more than 100mm in height);
  - ii. Leaves and vegetation debris should be regularly removed;
  - iii. Organic mulch is not to be used within 1 m of a building.
- 46. The proposed public roads require fire hydrants to be installed to comply with *AS 2419.1 – 2005 Fire Hydrant Installations - System Design, Installation and Commissioning* (AS 2419).
- 47. The warehouse will require fire hydrants to be installed to comply with *AS 2419.1 – 2005 Fire Hydrant Installations - System Design, Installation and Commissioning* (AS 2419) so that all sides of the building are within 70 m of a hydrant by lay of the hose (or 90 m with a tanker parked in-line maximum 20 m from the hydrant).
- 48. Any gas services are to be installed and maintained in accordance with *AS/NZS 1596-2014 The storage and handling of LP gas*.
- 49. Hazardous or combustible materials are not to be stored externally.

## 12 Annexure G – Driver Code of Conduct

While the Permanent Site Access via Darrabarra Avenue is being constructed, the Temporary Site Access DCOC is to be utilized. Upon construction of the primary access via Darrabarra Avenue, the Permanent Site Access DCOC is to be utilized.

At no point are two access points into the Site proposed to be utilised.

### Temporary Site Access DCOC

#### DRIVER CODE OF CONDUCT (DCOC)

A Driver Code of Conduct and induction training for the development to minimise road traffic noise has been developed. This Code of Conduct will be updated and implemented throughout the life of the project.

The purpose of the Driver Code of Conduct is to:

- Minimise the impacts of earthworks and construction on the local and regional road network.
- Minimise conflicts with other road users.
- Minimise road traffic noise.
- Ensure truck drivers use specified routes.

#### DCOC MAIN PROTOCOLS

The code of conduct requires that while driving any vehicle for work-related purposes.

**\*\*Drivers are to be issued with a copy of the Drivers Code of Conduct, and must comply with all the following:**

- Left in and Left out of the project/s whilst stage 1 access is being utilized – If not followed, Individual Fines apply from Traffic Regulating Authorities (TMC/TfNSW/DPHI).
- Undertaking traffic illegal U turn event or right turns at Mamre Road and Abbots Road intersection
- Enter and Exit the site via the approved entry and exit points and travel routes.
- Demonstrate safe driving and road safety activities.
- Abide by traffic, road, and environmental legislations.
- Follow site signage and instructions around site.

Ensure road access to neighbouring properties on Mamre Road are maintained for the duration of construction and operation, vehicles are not to compromise/Block neighbour residence ingress into their property (Refer to **Figure 39** showing Stakeholders property access in the surround area).

#### NON-CONFORAMNCE AND CONSEQUENCES

The below activities in any vehicles will be considered as a breach of conduct and will result in removal from site (Zero tolerance for breach of any of these items, Instant Dismissal)

- Breach any of the above points **\*\***
- 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 (60km/hr or otherwise noted on road signage) on any permanent or temporary roads

Any above-mentioned activities will result in removal from site. All vehicles blacklisted from accessing sites when captured in an illegal traffic event or breach of the DCOC.

Any breaches of the CTMP and Driver Code of Conduct may be considered a breach of development consent SSD-17647189 and penalties such as fines and/or prosecution may apply. Authorities will consider taking enforcement action which may include issuing penalty notices to the \$15,000 to the Company and **\$8,000 to the individual**. This includes all vehicles and haulage contractors.

### DRIVER OBLIGATIONS

- Be responsible and accountable for their actions when operating a company vehicle or driving for the purposes of work.
- At all times display the highest level of professional conduct when driving a vehicle.
- Ensure they have a current driver licence for the class of vehicle they are driving, and this licence is to be always carried.
- 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 (60km/hr or otherwise noted on road signage), including driving to the conditions.
  - *NOTE: Speed limits are variable as per legal road limit, construction/traffic conditions are constantly changing. Therefore, Signage and traffic restrictions/rules will change to reflect current surrounding conditions. Drivers must always pay attention to Signage and surroundings, especially when approaching and leaving site.*
- 
- 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.
- Always wear a seat belt 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 (60km/hr or otherwise noted on road signage).
- Keep loads always covered.
- Park in dedicated light vehicle or heavy vehicle parking spaces.
- Follow the approved site access/egress routes only.

### ARRIVAL TRIPS (FIGURE 24 AND FIGURE 25) – 'LEFT' MAP:

- Route 1: From M4 Western Motorway, southbound along Mamre Road and left into the Site's primary access.
- Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then south along Mamre Road and left into the Site's primary access.
- Route 3: Entry to site when Heading North on Mamre Road
  - When Heading North on Mamre Road, you are unable to enter site as it requires a Right Turn (Left in, Left Out



Only).

- Vehicle must travel up to Mamre Rd to the James Erskine Drive Intersection.
- Travel 170m Down James Erskine Drive, take a U-turn around the roundabout.
- Take a Left back onto Mamre Rd. Now the Vehicle is in the Correct Lane to Enter Site.

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 Abbots Road intersection. **Camera installed at the intersection to record all traffic movements and capture/report any illegal traffic movements.**

## DEPARTURE TRIPS (FIGURE 24 AND FIGURE 25) – ‘RIGHT’ MAP:

- Route 1: From the Site, left onto Mamre Road then south to Elizabeth Drive and left to the M7 Motorway and sub-regional routes to the east.
- Route 2: From the Site, left onto Mamre Road then south to Elizabeth Drive and right to Badgerys Creek and The Northern Road to the west.
- Route 3: Heading South, to return Heading North on Mamre Road
  - If a Vehicle needs to head north after exiting site, the vehicle must do the following;
    - Take a Left out of Site heading South down Mamre Rd (Left in / Left Out Only).
    - Come to Elizabeth Drive intersection and do a U-turn at the Roundabout.
    - Vehicle is in the Correct Direction to head North.

A copy of the approved routes will be distributed by the Principle 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.

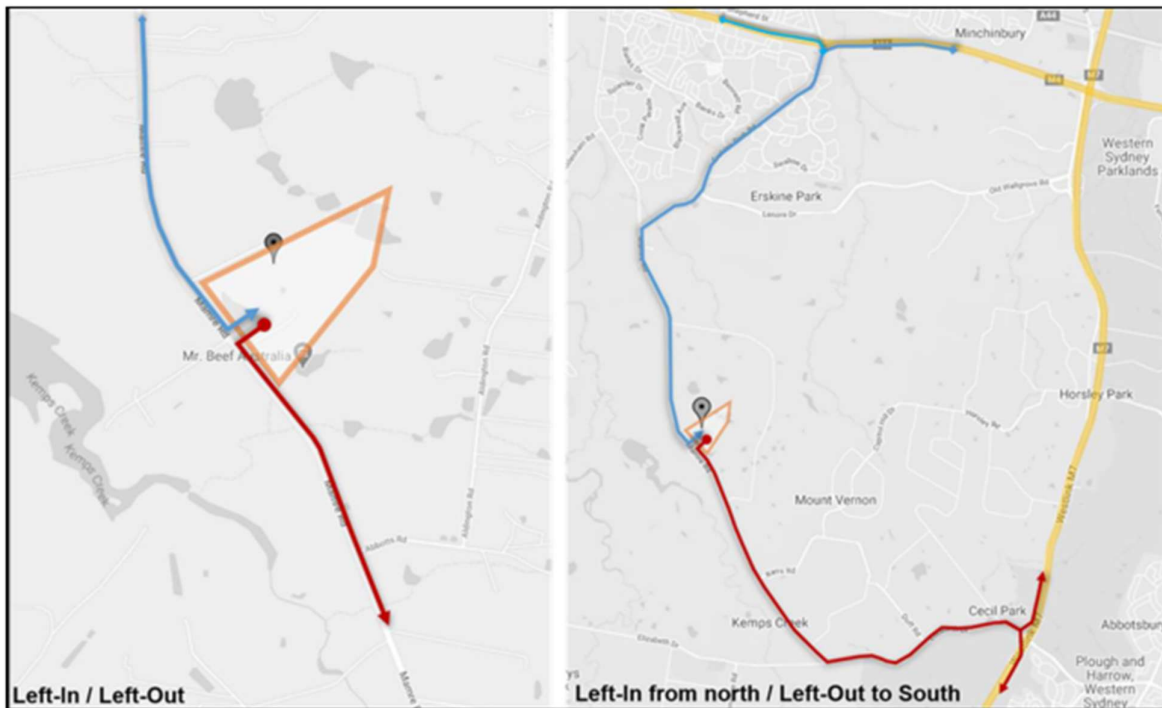


Figure 24 Site Access Routes Left In / Left Out (RAV 1 of 2)

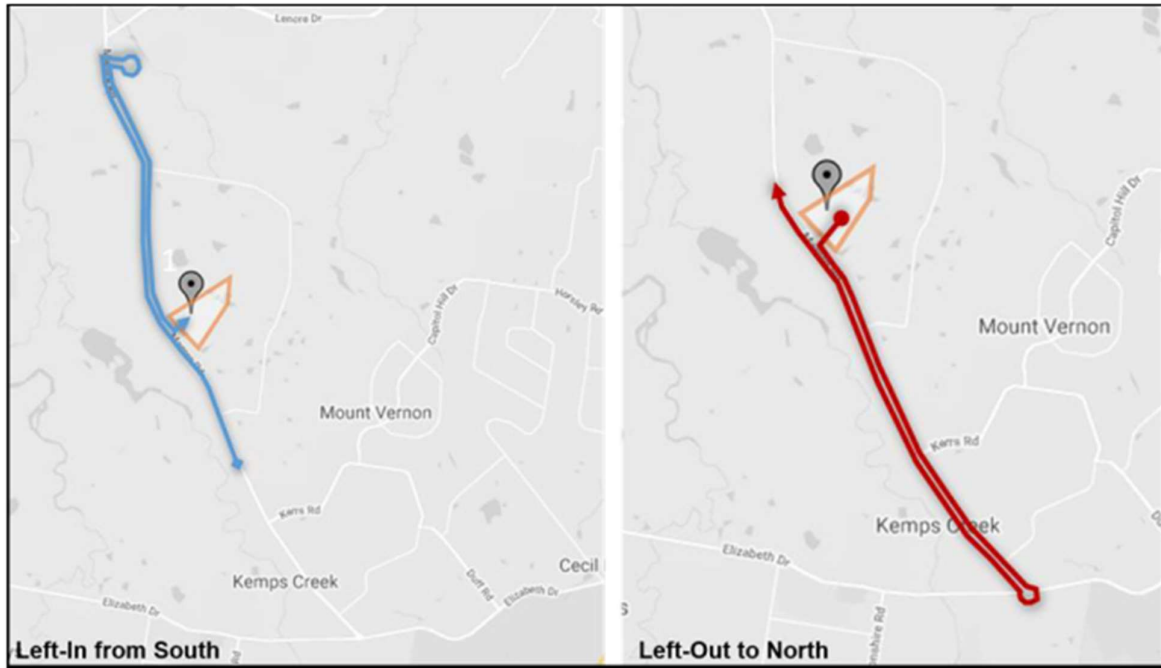


Figure 25 Site Access Routes Left In / Left Out (RAV 2 of 2)

All construction vehicles will enter and exit the Site via the Site's primary access via the following routes (refer to below Figure 37);

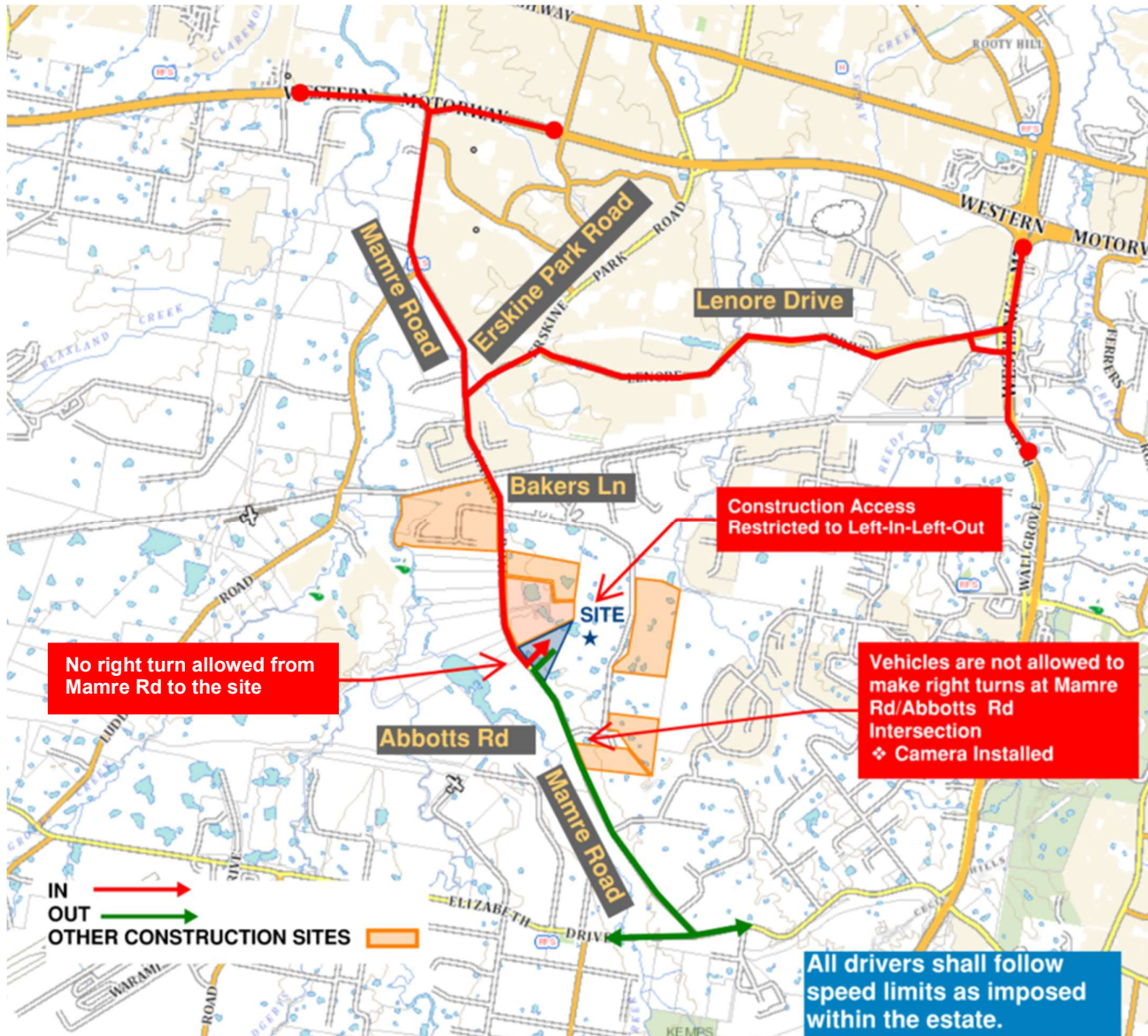


Figure 26 Approved Traffic Routes (RAV)

## ENTRY PROTOCOL:

Via UHF radio **28**, channel agreed at pre-start.

1. Vehicle to advise gate controller when 200m from gate via UHF — vehicle to ensure flashing lights are on
2. Vehicle advises of metres from gate in 50m lots (i.e., 1 50 m from gate 100m from gate).
3. Gate Controller advises safe to enter, vehicle enters site and decelerates to signed speed (20km/h no Haul roads and 10km/h in shared space e.g. carpark and compound areas).
4. If not safe to enter, vehicle is to continue driving and not stop / queue on the public roadway
5. Vehicle uses road network to return and make another attempt at entering site.

---

## EXIT PROTOCOL:

---

Via UHF radio, channel agreed at pre-start.

1. Vehicle driver to radio Gate Controller to ensure exit is possible – vehicle to ensure flashing lights are on.
2. If no issues driver to accelerate to exit gate and merge with traffic.
3. If driver cannot exit, Gate Controller to order vehicle to hold until gate is clear. Gate Controller is not to stop traffic on the public road network.

## 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 drivers 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.

## 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

---

The following measures shall be implemented to ensure Environmental procedures are adhered to;

- 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.

---

## VULNERABLE USERS

---

Be mindful of private residences that live and access directly onto Mamre Road and private vehicles use these surrounding roads.

---

## MAMRE ROAD PRECINCT WORKING GROUP

---

Workshops will be conducted routinely to discuss conditions, controls, and any updates on the traffic requirements on Mamre Road. These items generated from the Workshop will be handed out as notices to all relevant personnel and form part of the DCOC Driver Induction process.

---

## NSW GOV. ROAD SAFETY ENFORCEMENT & FINES

---

NSW Planning has serious concerns that road safety is being impacted by construction related trucks using traffic routes not approved by the SSD consent.

There will be monitoring by authorities to identify trucks not using the approved truck route, specifically the requirement for left turns only from Abbotts Road onto Mamre Road & Left in, Left out whilst stage 1 access is being utilized.

If any trucks/vehicles related to the SSDs are observed turning right from Abbotts Road onto Mamre Road, Making a U-turn on Mamre Road (Left in, Left out Only), or otherwise in breach the approved truck/vehicle routes in the Construction Traffic Management Plan (CTMP), NSW Planning will consider taking enforcement action which may include issuing penalty notices to the **\$15,000 to the Company** and **\$8,000 to the individual**. This includes all vehicles and haulage contractors.

Please refer to **Figure 27 Mamre Rd Current Signage and Surrounding Projects** (below) for current Mamre Road Signage and Surrounding Projects.





Figure 27 Mamre Rd current signage and surrounding Projects



Please refer to the **Figure 28 Surrounding Stakeholders on Mamre Rd (below)** showing surrounding stakeholders



Figure 28 Surrounding stakeholders on Mamre Rd

Please refer to the **Figure 29 Vehicle Movement Plan (VMP) – Left In / Left Out Vehicle Entry Access** (below) showing traffic flow in and out of the project on the Mamre Road Frontage. As well as relevant street signage.

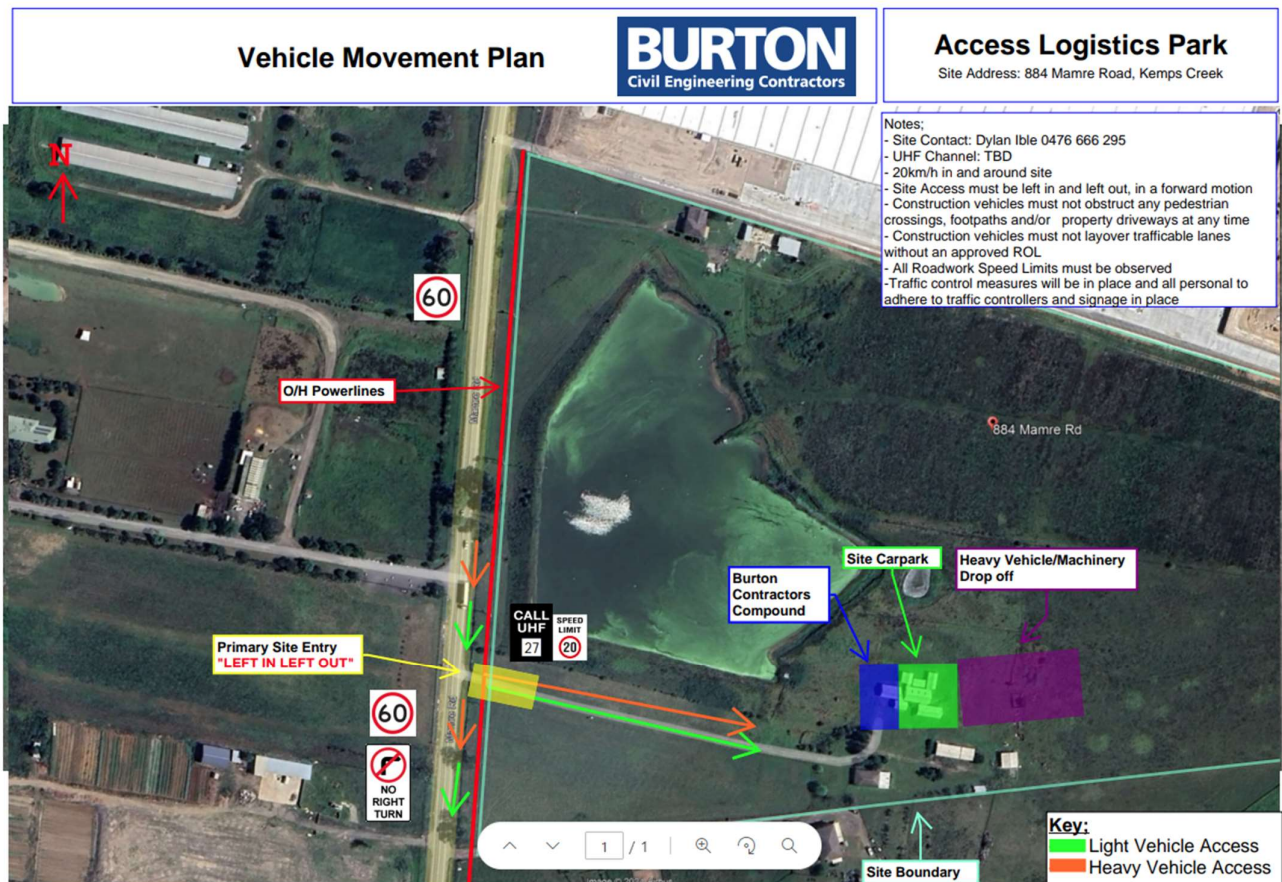


Figure 29 Vehicle Movement Plan (VMP) - Left-in / Left out Vehicle Access

## ACCESS LOGISTICS ESTATE – DRIVER CODE OF CONDUCT – SITE RULES

| DRIVERS CODE OF CONDUCT RULES YOU MUST ADHERE TO DURING YOUR TIME ONSITE                                                                                                                                                                               | Understood               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Site Access is Left in Left Out Only                                                                                                                                                                                                                   | <input type="checkbox"/> |
| Drivers are required to minimise impacts on traffic on Mamre Rd and on the Project Site                                                                                                                                                                | <input type="checkbox"/> |
| Drivers are not to Queue across Mamre Rd                                                                                                                                                                                                               | <input type="checkbox"/> |
| Drivers must demonstrate safe driving and abide by traffic, signage, road, and environmental legislations.                                                                                                                                             | <input type="checkbox"/> |
| Drivers are not to have any drugs or alcohol in their system. Drivers may be subject to Drug and Alcohol checks. <i>"Ticking/Understanding this section provides your consent to be subject to random checks."</i>                                     | <input type="checkbox"/> |
| Drivers must provide site evidence of a valid drivers' license                                                                                                                                                                                         | <input type="checkbox"/> |
| Drivers that will be moving oversized cargo, you must follow road restrictions (allowed times and approved roads to travel)                                                                                                                            | <input type="checkbox"/> |
| Drivers must be aware and responsible for noise and emissions from their vehicle to ensure they comply with the requirements imposed within the EIS/NSW EPA.                                                                                           | <input type="checkbox"/> |
| Drivers must report all; Near misses, Crashes, Damages, infringements, vehicle defects to site management staff                                                                                                                                        | <input type="checkbox"/> |
| Follow speed limits as imposed within the estate.                                                                                                                                                                                                      | <input type="checkbox"/> |
| Keep loads always covered                                                                                                                                                                                                                              | <input type="checkbox"/> |
| Park in dedicated light vehicle or heavy vehicle parking spaces.                                                                                                                                                                                       | <input type="checkbox"/> |
| Follow the approved site access/egress routes only.                                                                                                                                                                                                    | <input type="checkbox"/> |
| Drivers must follow the Arrival and Departure Routes                                                                                                                                                                                                   | <input type="checkbox"/> |
| Drivers must follow the Entry and Exit Protocol                                                                                                                                                                                                        | <input type="checkbox"/> |
| Sited and Comprehended - <b>Figure 13 Mamre Rd Current Signage and Surrounding projects</b>                                                                                                                                                            | <input type="checkbox"/> |
| Sited and Comprehended - <b>Figure 14 Surrounding Stakeholders on Mamre Rd</b>                                                                                                                                                                         | <input type="checkbox"/> |
| Sited and Comprehended - <b>Figure 5 Construction Vehicle Routes</b>                                                                                                                                                                                   | <input type="checkbox"/> |
| Understood <b>FINES will apply</b> for Illegal manoeuvres (Including U-turns and Right turn into Abbotts Rd). <b>\$15,000 to the Company</b> and <b>\$8,000 to the individual</b> . <b>Additionally, Vehicle &amp; Person will be Banned from Site</b> | <input type="checkbox"/> |

I acknowledge that I have received a Driver Code of Conduct induction and have adequately understood the Rules and Requirements. I will comply with any instructions given by the project management team or their representatives.

### BURTON USE ONLY – To be completed by the inductor

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Inductor's Name:      |  | Date of Induction: |  |
| Inductor's Signature: |  |                    |  |

Drivers Company; \_\_\_\_\_

License No; \_\_\_\_\_

State of Issue: \_\_\_\_\_

License Class; \_\_\_\_\_



## **Permanent Access DCOC**

While the Permanent Site Access via Darrabarra Avenue is being constructed, the Temporary Site Access DCOC is to be utilized. Upon construction of the primary access via Darrabarra Avenue, the Permanent Site Access DCOC is to be utilized.

At no point are two access points into the Site proposed to be utilised.

## **DRIVER CODE OF CONDUCT (DCOC)**

A Driver Code of Conduct and induction training for the development to minimise road traffic noise has been developed. This Code of Conduct will be updated and implemented throughout the life of the project.

**The purpose of the Driver Code of Conduct is to:**

- Minimise the impacts of earthworks and construction on the local and regional road network.
- Minimise conflicts with other road users.
- Minimise road traffic noise.
- Ensure truck drivers use specified routes.

## **DCOC MAIN PROTOCOLS**

The code of conduct requires that while driving any vehicle for work-related purposes.

**\*\*Drivers are to be issued with a copy of the Drivers Code of Conduct, and must comply with all the following:**

- Undertaking traffic illegal U turn event or right turns at Mamre Road and Abbots Road intersection
- Enter and Exit the site via the approved entry and exit points and travel routes.
- Demonstrate safe driving and road safety activities.
- Abide by traffic, road, and environmental legislations.
- Follow site signage and instructions around site.

Ensure road access to neighbouring properties on Mamre Road are maintained for the duration of construction and operation, vehicles are not to compromise/Block neighbour residence ingress into their property (Refer to **Figure 33** showing Stakeholders property access in the surround area).

## **NON-CONFORMANCE AND CONSEQUENCES**

The below activities in any vehicles will be considered as a breach of conduct and will result in removal from site (Zero tolerance for breach of any of these items, Instant Dismissal)

- Breach any of the above points **\*\***
- 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 (60km/hr or otherwise noted on road signage) on any permanent or temporary roads

**Any above-mentioned activities will result in removal from site. All vehicles blacklisted from accessing sites when captured in an illegal traffic event or breach of the DCOC.**

**Any breaches of the CTMP and Driver Code of Conduct may be considered a breach of development consent SSD-17647189 and penalties such as fines and/or prosecution may apply. Authorities will consider taking enforcement action which may include issuing penalty notices to the \$15,000 to the Company and **\$8,000 to the individual**. This includes all vehicles and haulage contractors.**

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## DRIVER OBLIGATIONS

---

- Be responsible and accountable for their actions when operating a company vehicle or driving for the purposes of work.
- At all times display the highest level of professional conduct when driving a vehicle.
- Ensure they have a current driver licence for the class of vehicle they are driving, and this licence is to be always carried.
- 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 (60km/hr or otherwise noted on road signage), including driving to the conditions.
  - *NOTE: Speed limits are variable as per legal road limit, construction/traffic conditions are constantly changing. Therefore, Signage and traffic restrictions/rules will change to reflect current surrounding conditions. Drivers must always pay attention to Signage and surroundings, especially when approaching and leaving site.*
- 
- 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.
- Always wear a seat belt 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 (60km/hr or otherwise noted on road signage).
- Keep loads always covered.
- Park in dedicated light vehicle or heavy vehicle parking spaces.
- Follow the approved site access/egress routes only.

### Arrival Trips (refer to Figure 30 and figure 31 Site Access Route)

- Route 1: From M4 Western Motorway, southbound along Mamre Road and left onto Darrabarra Avenue towards the sites primary access.
- Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then south along Mamre Road and left onto Darrabarra Avenue towards the sites primary access.
- Route 3: Entry to site when Heading North on Mamre Road
  - With the signalized intersection becoming operational, there will be a designated right turn lane from Mamre Road onto Darrabarra Avenue.

## Departure Trips (refer to Figure 30 and figure 31 Site Access Routes)

- Route 1: From the Site out onto Berriwerri Drive, left onto Darrabarra Avenue towards the traffic lights, then left or right onto Mamre Road.

A copy of the approved routes will be distributed by the Principal 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.



Figure 30 Site Access Route

All construction vehicles will enter and exit the Site via the Site's primary access via the following routes (refer to below Figure 31);



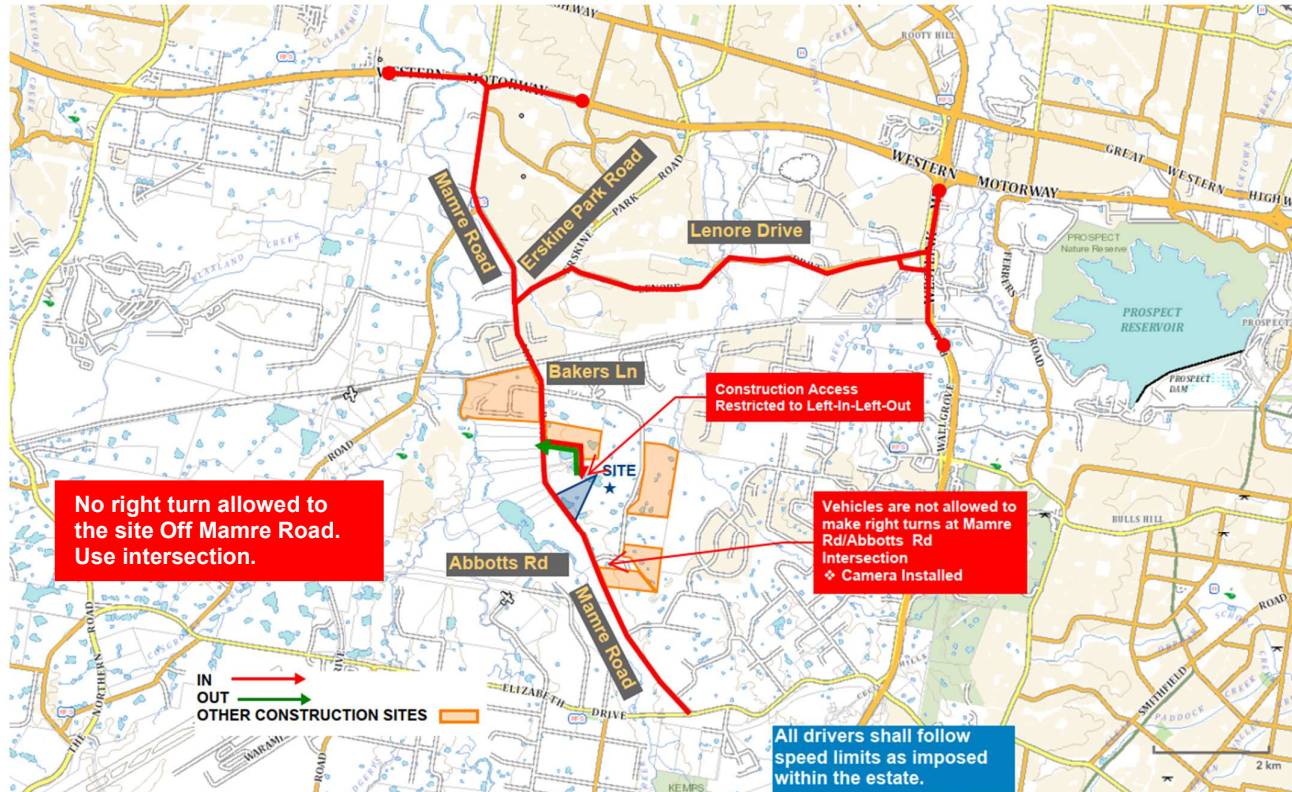


Figure 31 Approved Traffic Routes (RAV)

## ENTRY PROTOCOL:

Via UHF radio **28**, channel agreed at pre-start.

1. Vehicle to advise gate controller when 200m from gate via UHF — vehicle to ensure flashing lights are on
2. Vehicle advises of metres from gate in 50m lots (i.e., 1 50 m from gate 100m from gate).
3. Gate Controller advises safe to enter, vehicle enters site and decelerates to signed speed (20km/h no Haul roads and 10km/h in shared space e.g. carpark and compound areas).
4. If not safe to enter, vehicle is to continue driving and not stop / queue on the public roadway
5. Vehicle uses road network to return and make another attempt at entering site.

## EXIT PROTOCOL:

Via UHF radio, channel agreed at pre-start.

1. Vehicle driver to radio Gate Controller to ensure exit is possible – vehicle to ensure flashing lights are on.
2. If no issues driver to accelerate to exit gate and merge with traffic.
3. If driver cannot exit, Gate Controller to order vehicle to hold until gate is clear. Gate Controller is not to stop traffic on the public road network.

## 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 drivers 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.

### 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

---

The following measures shall be implemented to ensure Environmental procedures are adhered to;

- 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.

## VULNERABLE USERS

Be mindful of private residences that live and access directly onto Mamre Road and private vehicles use these surrounding roads.

## MAMRE ROAD PRECINCT WORKING GROUP

Workshops will be conducted routinely to discuss conditions, controls, and any updates on the traffic requirements on Mamre Road. These items generated from the Workshop will be handed out as notices to all relevant personnel and form part of the DCOC Driver Induction process.

## NSW GOV. ROAD SAFETY ENFORCEMENT & FINES

NSW Planning has serious concerns that road safety is being impacted by construction related trucks using traffic routes not approved by the SSD consent.

There will be monitoring by authorities to identify trucks not using the approved truck route, specifically the requirement for left turns only from Abbots Road onto Mamre Road.

If any trucks/vehicles related to the SSDs are observed turning right from Abbots Road onto Mamre Road, Making a U-turn on Mamre Road, or otherwise in breach the approved truck/vehicle routes in the Construction Traffic Management Plan (CTMP), NSW Planning will consider taking enforcement action which may include issuing penalty notices to the **\$15,000 to the Company** and **\$8,000 to the individual**. This includes all vehicles and haulage contractors.

Please refer to **Figure 32 Mamre Rd Current Signage and Surrounding Projects** (below) for current Mamre Road Signage and Surrounding Projects.





Please refer to the **Figure 33** Surrounding Stakeholders on Mamre Rd (below) showing surrounding stakeholders



Figure 33 Surrounding stakeholders on Mamre Rd

Please refer to the **Figure 34** Vehicle Movement Plan (VMP) (below) showing traffic flow in and out of the project on the Mamre Road Frontage, As well as relevant street signage.

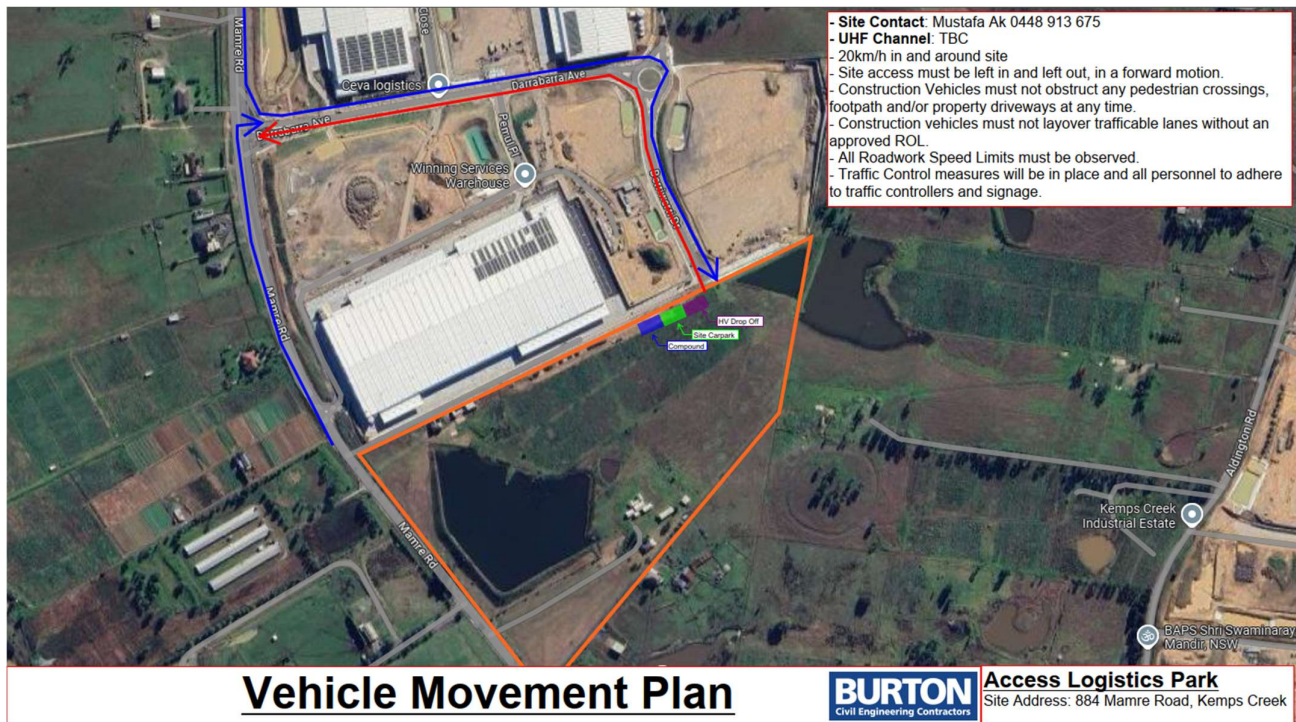


Figure 34 Vehicle Movement Plan (VMP)

## ACCESS LOGISTICS ESTATE – DRIVER CODE OF CONDUCT – SITE RULES

| DRIVERS CODE OF CONDUCT RULES YOU MUST ADHERE TO DURING YOUR TIME ONSITE                                                                                                                                                                       | Understood               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Drivers are required to minimise impacts on traffic on Mamre Rd and on the Project Site                                                                                                                                                        | <input type="checkbox"/> |
| Drivers are not to Queue across Mamre Rd                                                                                                                                                                                                       | <input type="checkbox"/> |
| Drivers must demonstrate safe driving and abide by traffic, signage, road, and environmental legislations.                                                                                                                                     | <input type="checkbox"/> |
| Drivers are not to have any drugs or alcohol in their system. Drivers may be subject to Drug and Alcohol checks. <i>“Ticking/Understanding this section provides your consent to be subject to random checks.”</i>                             | <input type="checkbox"/> |
| Drivers must provide site evidence of a valid drivers’ license                                                                                                                                                                                 | <input type="checkbox"/> |
| Drivers that will be moving oversized cargo, you must follow road restrictions (allowed times and approved roads to travel)                                                                                                                    | <input type="checkbox"/> |
| Drivers must be aware and responsible for noise and emissions from their vehicle to ensure they comply with the requirements imposed within the EIS/NSW EPA.                                                                                   | <input type="checkbox"/> |
| Drivers must report all; Near misses, Crashes, Damages, infringements, vehicle defects to site management staff                                                                                                                                | <input type="checkbox"/> |
| Follow speed limits as imposed within the estate.                                                                                                                                                                                              | <input type="checkbox"/> |
| Keep loads always covered                                                                                                                                                                                                                      | <input type="checkbox"/> |
| Park in dedicated light vehicle or heavy vehicle parking spaces.                                                                                                                                                                               | <input type="checkbox"/> |
| Follow the approved site access/egress routes only.                                                                                                                                                                                            | <input type="checkbox"/> |
| Drivers must follow the Arrival and Departure Routes                                                                                                                                                                                           | <input type="checkbox"/> |
| Drivers must follow the Entry and Exit Protocol                                                                                                                                                                                                | <input type="checkbox"/> |
| Sited and Comprehended - <b>Figure 13 Mamre Rd Current Signage and Surrounding projects</b>                                                                                                                                                    | <input type="checkbox"/> |
| Sited and Comprehended - <b>Figure 14 Surrounding Stakeholders on Mamre Rd</b>                                                                                                                                                                 | <input type="checkbox"/> |
| Sited and Comprehended - <b>Figure 5 Construction Vehicle Routes</b>                                                                                                                                                                           | <input type="checkbox"/> |
| Understood <b>FINES will apply</b> for Illegal manoeuvres (Including U-turns and Right turn into Abbotts Rd). <b>\$15,000 to the Company</b> and <b>\$8,000 to the individual. Additionally, Vehicle &amp; Person will be Banned from Site</b> | <input type="checkbox"/> |

I acknowledge that I have received a Driver Code of Conduct induction and have adequately understood the Rules and Requirements. I will comply with any instructions given by the project management team or their representatives.

**BURTON USE ONLY – To be completed by the inductor**

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Inductor’s Name:      |  | Date of Induction: |  |
| Inductor’s Signature: |  |                    |  |

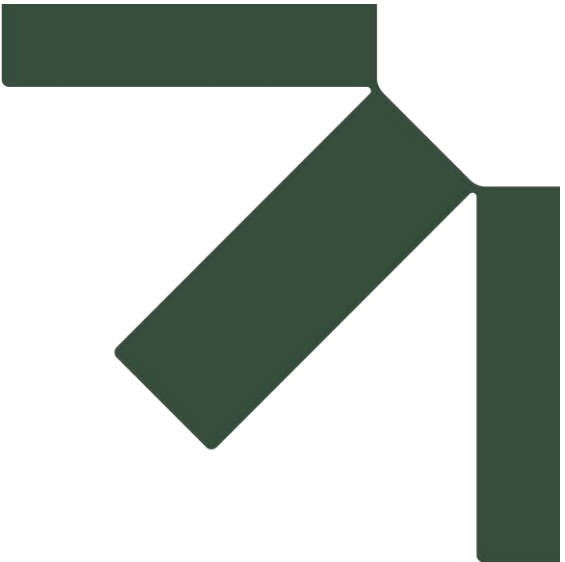
Drivers Company; \_\_\_\_\_

License No; \_\_\_\_\_

State of Issue: \_\_\_\_\_

License Class; \_\_\_\_\_





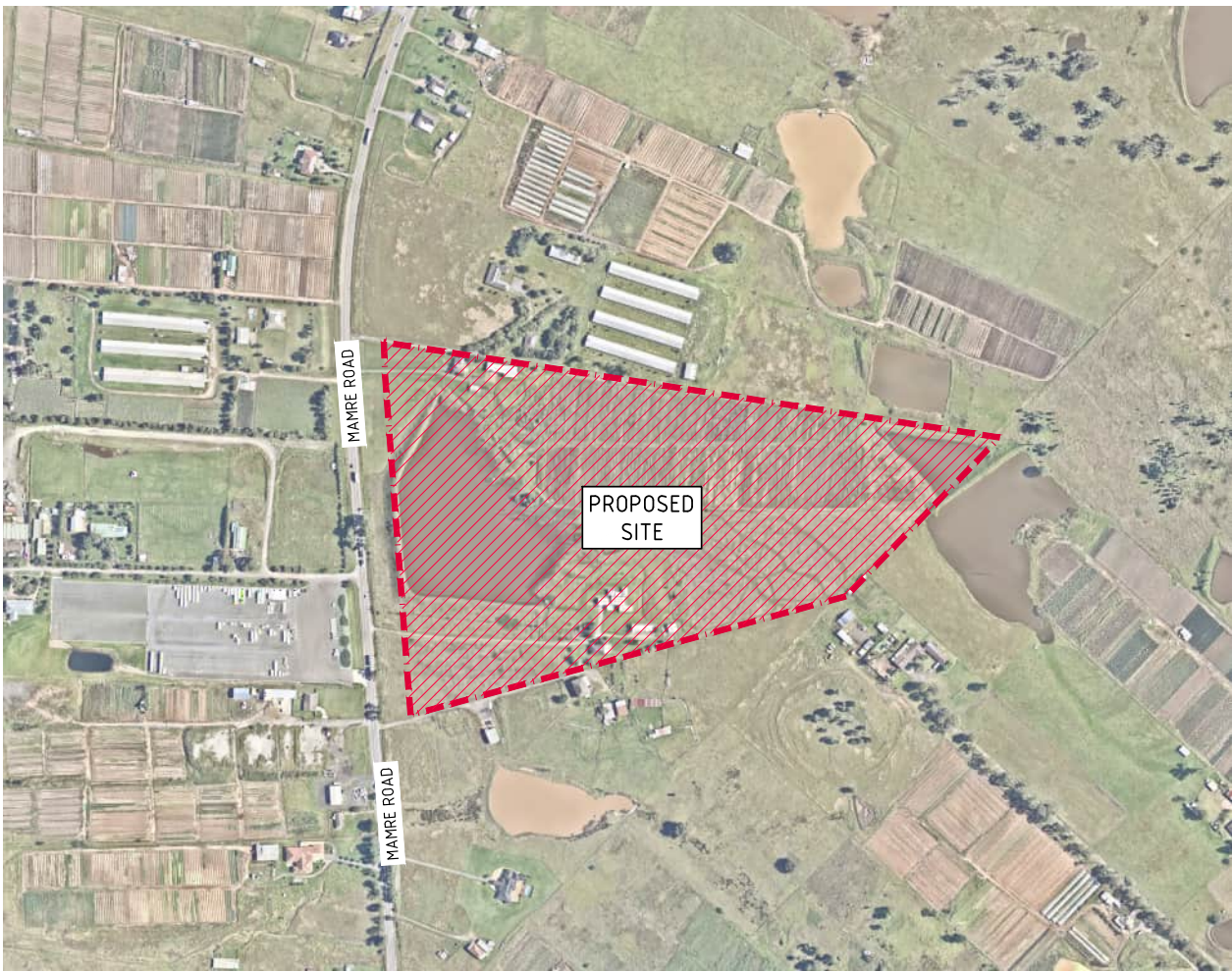
# **Appendix D      Erosion and Sediment Control Plan**

# STATE SIGNIFICANT DEVELOPMENT APPLICATION ACCESS LOGISTICS PARK

884-928 MAMRE ROAD, KEMPS CREEK, NSW, 2178

## EROSION & SEDIMENTATION PACKAGE

STATE SIGNIFICANT DEVELOPMENT  
APPLICATION SSD-17647189



LOCALITY PLAN  
NOT TO SCALE

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[illegible]







| DURING CONSTRUCTION - TEMPORARY STABILISATION<br>(DURING PERIODS OF INACTIVITY WHEN WORKS ARE ON HOLD) |                                                                                      |                                                                                                            |                                                                          |                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LANDS                                                                                                  | STABILISATION REQUIREMENT                                                            | TIMEFRAME                                                                                                  | TREATMENT METHODS - PRODUCTS                                             | REMARKS                                                                                                                                                                                                                    |
| HIGH RISK AREAS SOIL LOSS CLASS 6 OR ABOVE LANDS (WHERE APPLICABLE)                                    | C-FACTOR = 0.1 (60% GRASS COVER OR EQUIVALENT GROUND COVER)                          | APPLIES PRIOR TO RAINFALL AND AFTER 10 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER) | SOIL BINDER (ie: VITAL P47/STONEWALL OR EQUIVALENT)                      | -STABLISE ALL EXPOSED SOILS BY SPARYING SURFACES WITH VITAL P47/STORMWATER OR EQUIVALENT'.<br>-VITAL DILUTION RATE = 1 : 10 (VITAL MIXTURE).<br>- RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED. |
|                                                                                                        |                                                                                      |                                                                                                            | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT¹ | - COVER ALL EXPOSED SOILS.<br>-RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                    |
|                                                                                                        |                                                                                      |                                                                                                            | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT¹ | - COVER ALL EXPOSED SOILS.<br>-RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                    |
| ALL LANDS (INCLUDING WATERWAYS AND STOCKPILES)                                                         | APPLIES AFTER 20 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER) | APPLIES AFTER 20 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER)                       | SOIL BINDER (ie VITAL P47/STONEWALL OR EQUIVALENT¹                       | -SPRAY ALL STOCKPILE SURFACES WITH VITALP47/STONEWALL OR EQUIVALENT¹ -VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>-APPLICATION RATE = 1L/m² OF DILUTED VITAL MIXTURE                                                      |
|                                                                                                        |                                                                                      |                                                                                                            | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED)                | - COVER ALL EXPOSED SOILS.<br>- E-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                  |

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|       |                                    |          |
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24 |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24 |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24 |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24 |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-24 |
| A     | INITIAL SUBMISSION                 | 18-04-24 |
| Issue | Description                        | Date     |

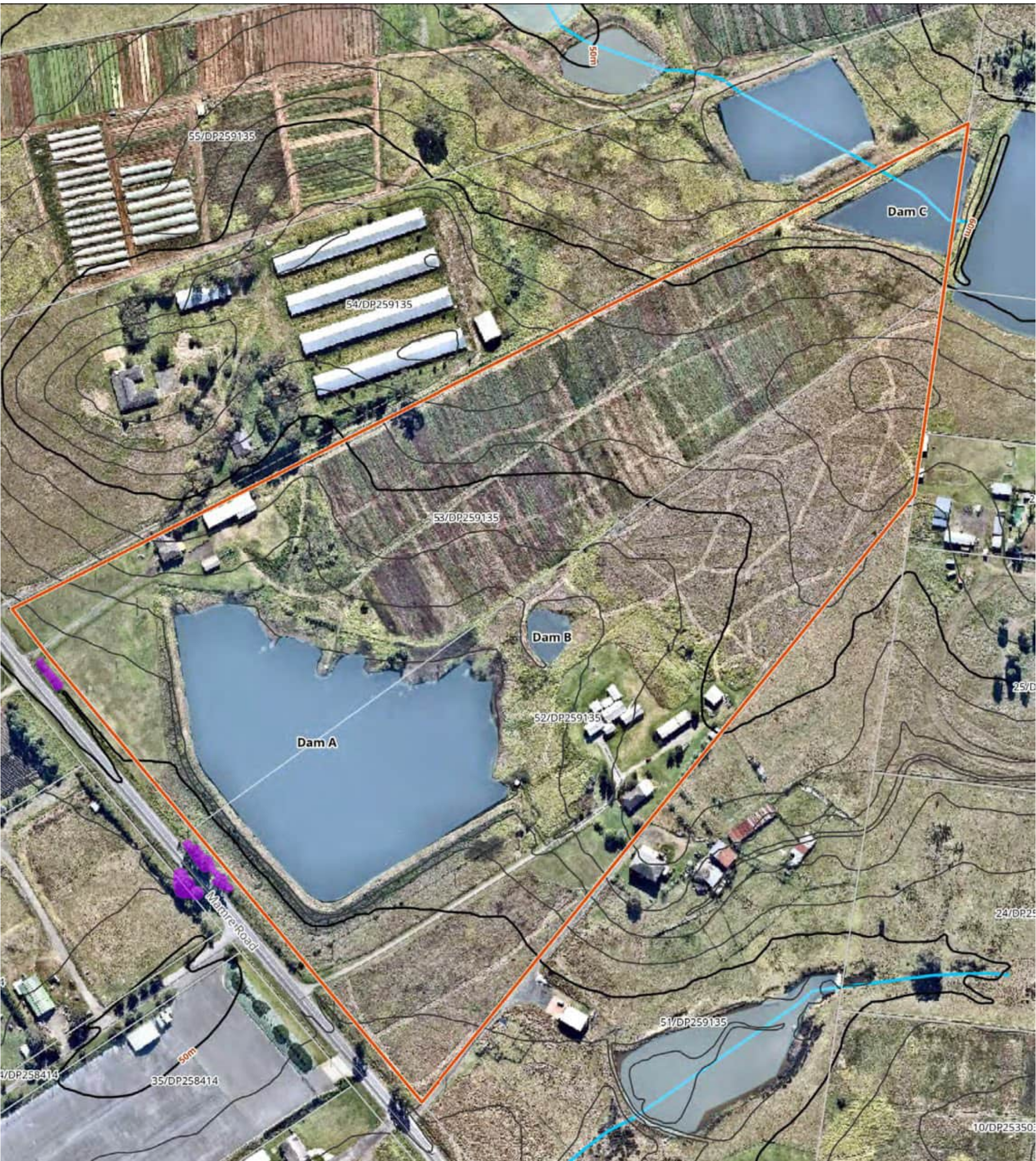
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| TABLE 2 - STABILISATION REQUIREMENTS AND TREATMENT METHODS CONTINUED |                                                                            |                                                                                                                               |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| POST CONSTRUCTION                                                    |                                                                            |                                                                                                                               |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| LANDS                                                                | STABILISATION REQUIREMENT                                                  | TIMEFRAMES                                                                                                                    | TREATMENT METHODS PRODUCTS                                                                                                                           | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| WATERWAYS, DRAINAGE LINES AND CONCENTRATED FLOW AREAS                | C-FACTOR = 0.05 (70% GRASS COVER OR EQUIVALENT GROUND COVER¹)              | APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY CONCENTRATED FLOWS.           | REFER TO THE DRAIN SPECIFICATIONS DETAILED ON THE PLAN FOR SPECIFIC LINING/STABILISATION REQUIREMENTS.<br>EXAMPLE TREATMENT METHODS ARE SHOWN BELOW. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                      |                                                                            |                                                                                                                               | TEMPORARY LINING - GEOTEXTILE (ie. BIDIM A24 OR EQUIVALENT¹)                                                                                         | - COMPLETE ANY SUBSOIL TREATMENT BEFORE LAYING THE MATTING.<br>-INSTALL MATTING IN ACCORDANCE WITH SD 5-7<br>-RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                      |                                                                            |                                                                                                                               | JUTE MESH, SEEDING AND SOIL BINDER (ie VITAL P47/STONEWALL OR EQUIVALENT¹)<br>- LOW FLOWS                                                            | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING¹.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- WATERWAYS AND (50% GRASS COVER OR¹ OF INACTIVITY LEVEN THOUGH MONTHS-<br>- VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.        |
|                                                                      |                                                                            |                                                                                                                               | JUTE MATTING ( 350gsm) AND SEEDING OR EQUIVALENT¹<br>- LOW TO MODERATE FLOWS                                                                         | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING¹.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- WATERWAYS AND (50% GRASS COVER OR¹ OF INACTIVITY LEVEN THOUGH MONTHS-<br>- VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.        |
|                                                                      |                                                                            |                                                                                                                               | - TURN REINFORCEMENT MATTING (TRM) (ie.g TERRAMAT OR EQUIVALENT¹) (TRN) -MODERATE FLOWS                                                              | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.                                                                                                                                                                                                                                                                                                               |
| STOCKPILES                                                           | C-FACTOR = 0.10 / 0.05 (60% GRASS COVER OR EQUIVALENT GROUND COVER¹)       | APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION                                                                    | ROCK LINING<br>- HIGH FLOWS                                                                                                                          | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.                                                                                                                                                                                                                                                                                                               |
|                                                                      |                                                                            |                                                                                                                               | SEEDING AND SOIL BINDER (ie VITAL P47/ STONEWALL OR EQUIVALENT¹)                                                                                     | - APPLY SEED TO ALL STOCKPILE SURFACES (NOTE: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT).<br>- SPRAY ALL STOCKPILE SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- VITAL DILUTION RATE = 1L / m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.                                                                                                                                                                                                                                                                                                                              |
|                                                                      |                                                                            |                                                                                                                               | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT¹                                                                             | - COVER ALL EXPOSED SOILS.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| GENERAL SURFACES                                                     | C-FACTOR = 0.10 / 0.05 (60% / 70% GRASS COVER OR EQUIVALENT GROUND COVER¹) | C-FACTOR = 0.1 APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND C-FACTOR= 0.05 APPLIES WITHIN A FURTHER 60 DAYS | TOPSOIL, SEEDING AND SOIL BINDER (ie VITAL P47/STONEWALL OR EQUIVALENT¹)                                                                             | -REFER TO SD 7-1<br>-COMPLETE SUBSOIL TREATMENT (ie GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- APPLY ANY FERTILISERS REQUIRED.<br>- APPLY SEED TO ALL SURFACES (Note: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED. |
|                                                                      |                                                                            |                                                                                                                               | HYDROMLUCH OR EQUIVALENT¹                                                                                                                            | -REFER TO SD 7-1<br>-COMPLETE SUBSOIL TREATMENT (ie GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- APPLY ANY FERTILISERS REQUIRED.<br>- APPLY SEED TO ALL SURFACES (Note: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED. |

|                                                                                       |        |                                                                                       |               |                       |                     |                                                            |                                 |                                                                                                                                                                               |                                                         |            |
|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|---------------|-----------------------|---------------------|------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------|
|  | Client |  | Scales<br>N/A | Grid<br>MGA94 ZONE 56 | Height Datum<br>AHD | Drawn<br>BC<br>Designed<br>BC<br>Checked<br>BC<br>Approved | Project<br>ACCESS LOGISTIC PARK |  <div>PO Box 70<br/>Kurrajong, NSW 2758<br/>ABN 18 640 756 038<br/>Tel: 0407782830</div> | OCHRE ENVIRONMETAL MANAGEMENT                           |            |
|                                                                                       |        |                                                                                       |               |                       |                     |                                                            |                                 |                                                                                                                                                                               | Status<br>INITIAL SUBMISSION                            | F          |
|                                                                                       |        |                                                                                       |               |                       |                     |                                                            |                                 |                                                                                                                                                                               | Project No. - Drawing No.<br>P104_ALTIS_SSD17647189-ESC | Issue<br>1 |



Existing topography and dams (Source: Extract from Biosis, 2021)



| Stage                              | Works Activity                                     | Proposed Control                                                                                                                    |
|------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 0 - Site Establishment.            | Establishment of Site facilities.                  | Perimeter controls, site construction access and use of existing fam dams for sediment control.                                     |
| 1 - Sediment control establishment | Infilling of dams A, B and C                       | Establishment of HES basins and diversion berms for site water control progressively replacing existing farm dams                   |
|                                    | Establishment of HES basins as per ESCP            |                                                                                                                                     |
|                                    | Stripping of topsoil                               |                                                                                                                                     |
|                                    | Stockpiling                                        |                                                                                                                                     |
| 2 -Estate Civil works              | Roadways and bulk earthworks within lot boundaries | Construction of on lot detention areas, implemetnation of road drainage and pit inlet controls                                      |
| 3 - Site Finishing                 | Landscaping and bioswale implementation            | Removal of basins and boundary controls following stabilisation of site areas and landscaping. Retention of on lot detention areas. |

|       |                                    |          |
|-------|------------------------------------|----------|
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24 |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24 |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24 |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24 |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-24 |
| A     | INITIAL SUBMISSION                 | 18-04-24 |
| Issue | Description                        | Date     |



Client

**BURTON**  
Civil Engineering Contractors

Scales

N/A

Drawn

BC

Designed

BC

Checked

BC

Approved

Project

ACCESS LOGISTIC PARK

Title

EROSION AND SEDIMENT CONTROL PLAN –  
EXISTING CONTOUR- SHEET 5

OCHRE ENVIRONMETAL MANAGEMENT



PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830

Status

INITIAL SUBMISSION

Project No. - Drawing No.

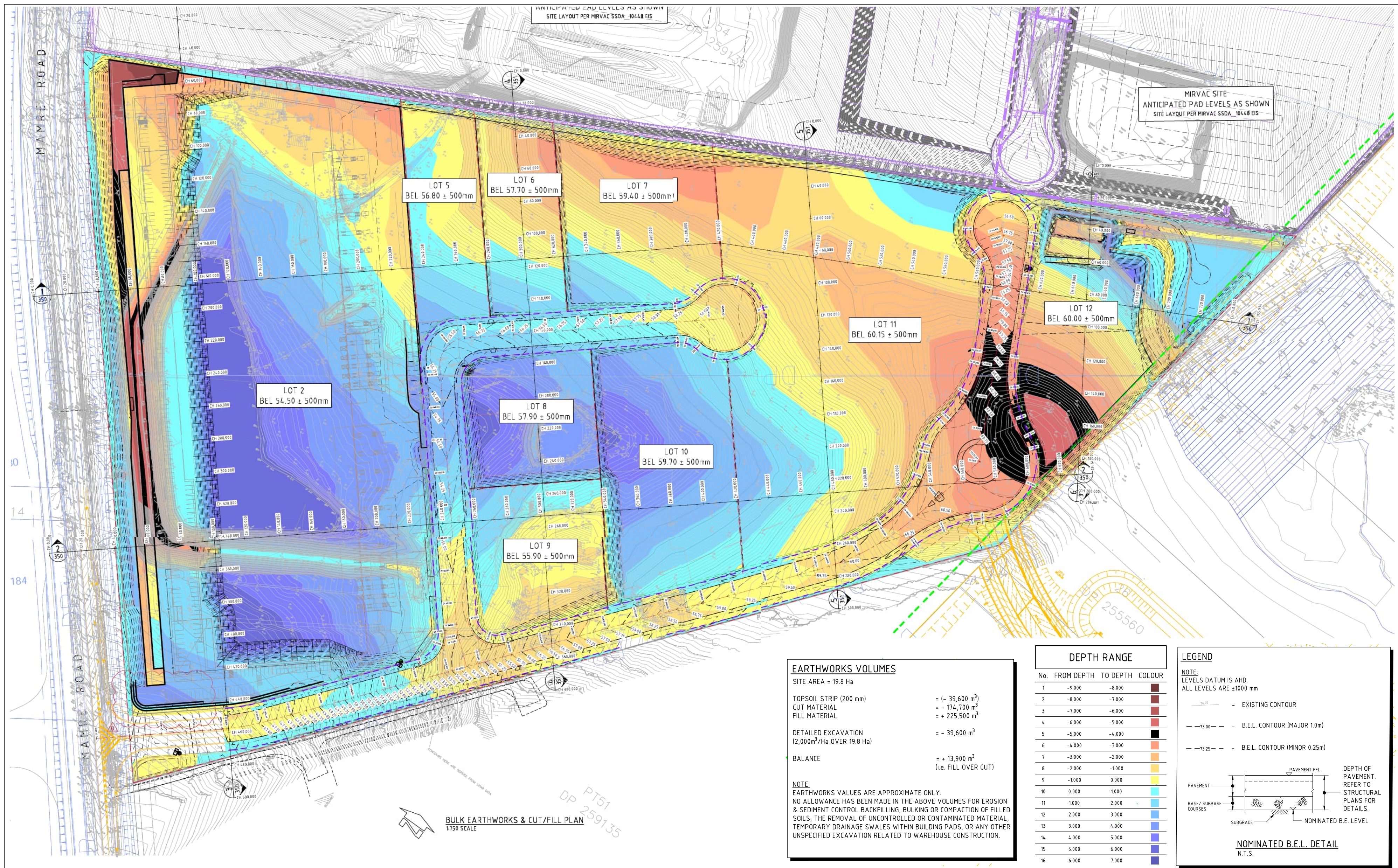
P104\_ALTIS\_SSD17647189-ESC

F

Issue

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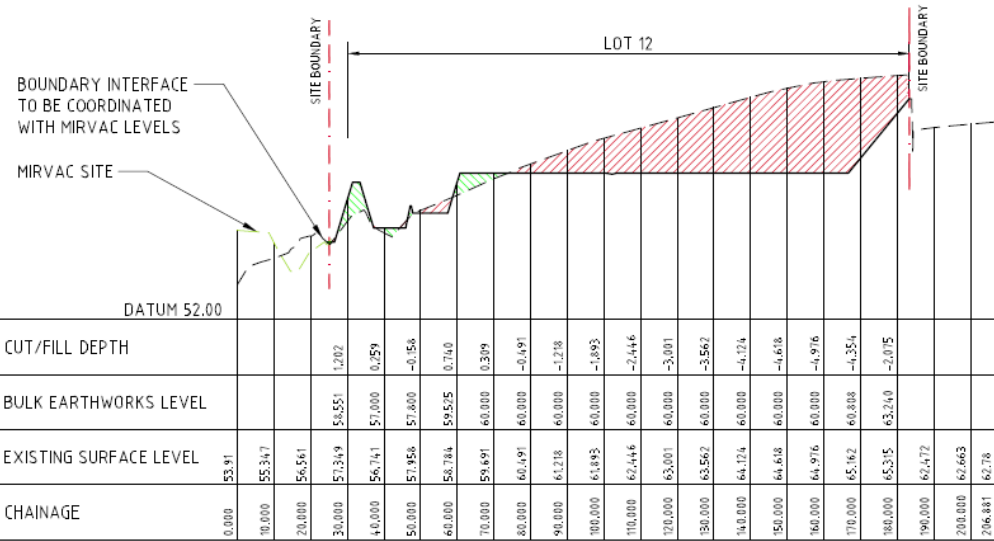
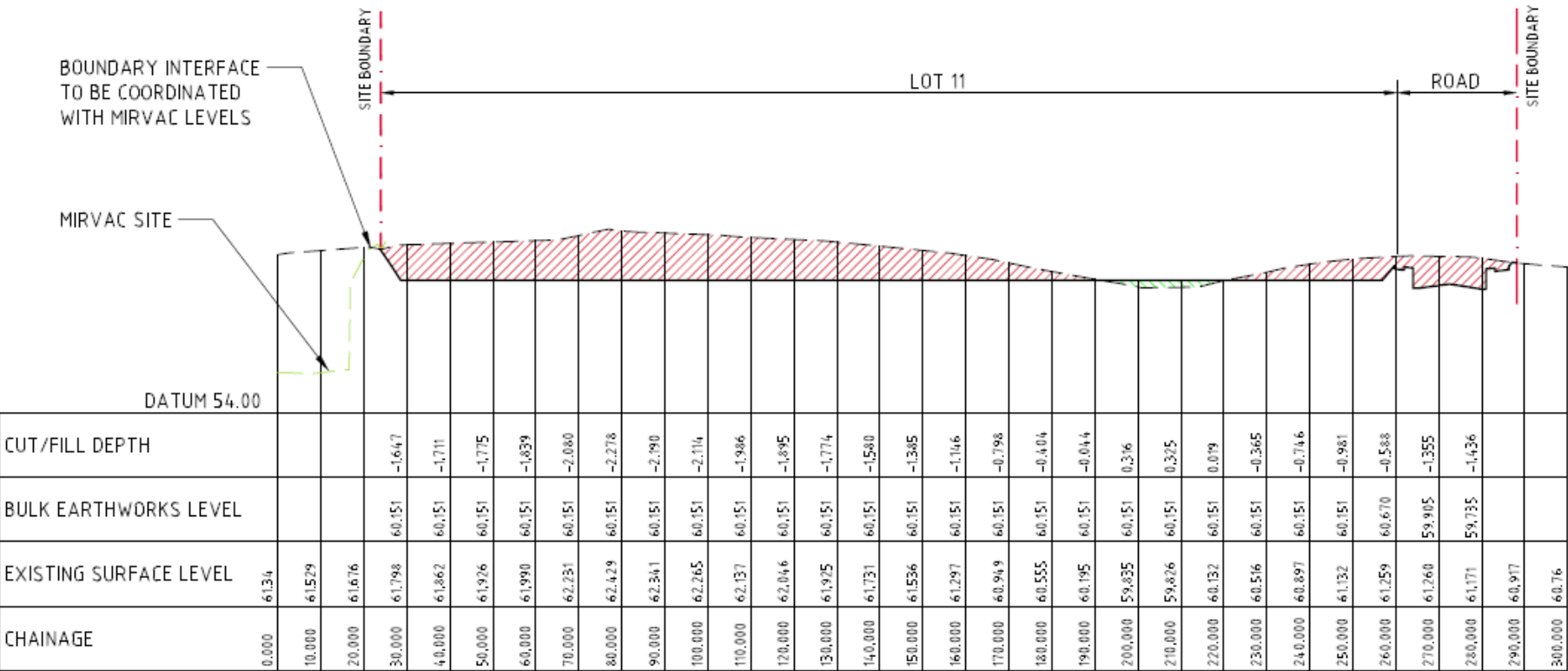
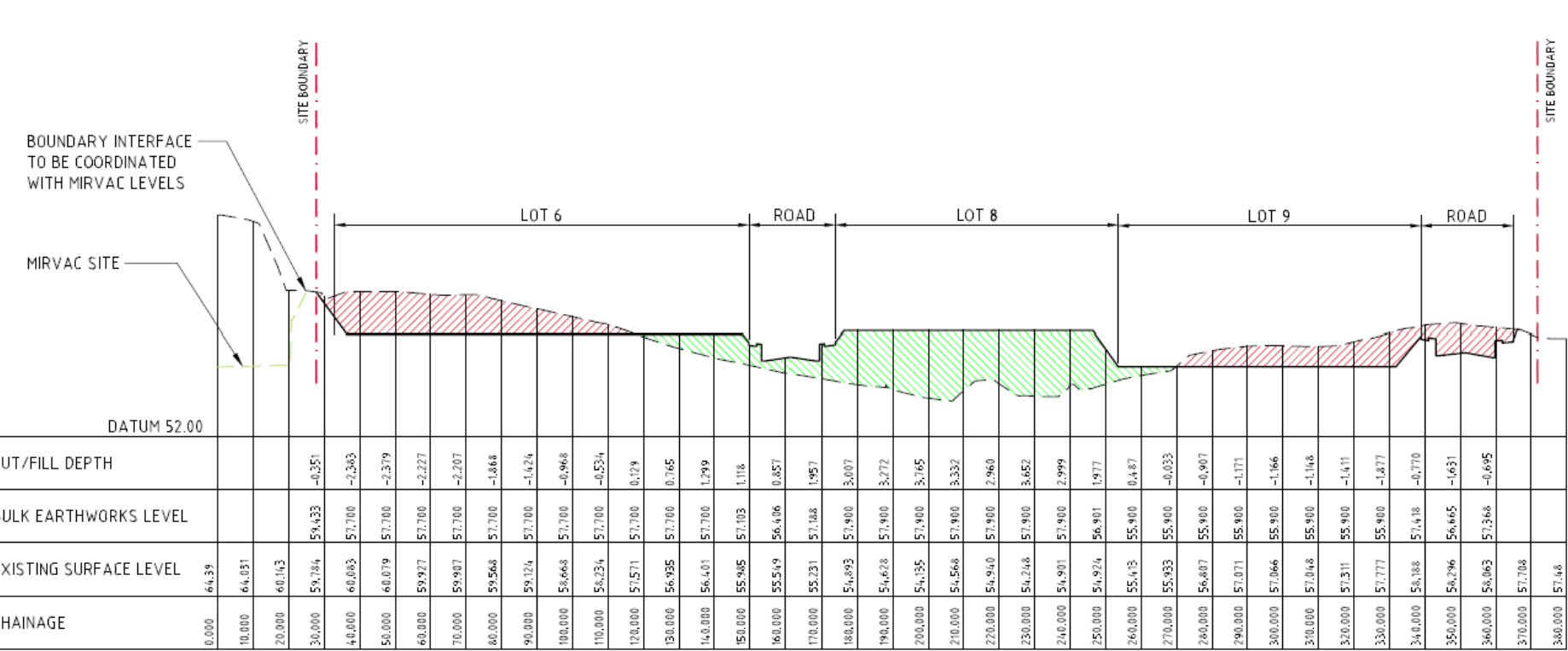
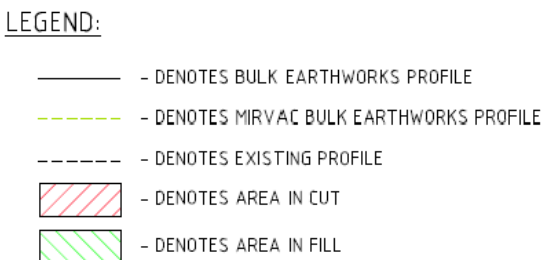
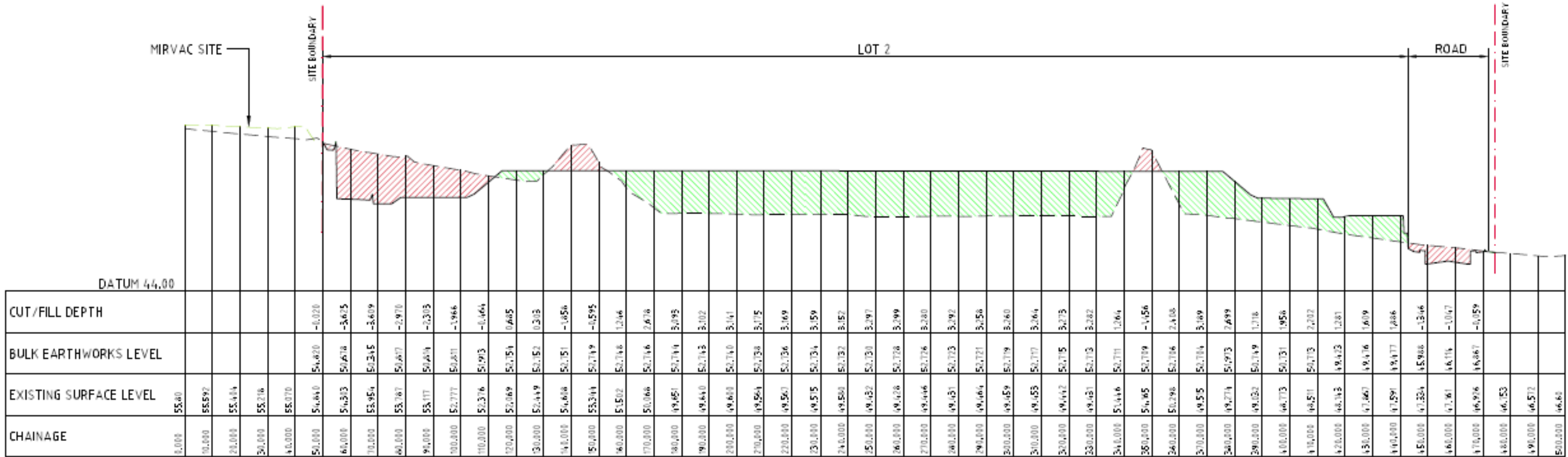




Client



|                                                                                           |               |          |    |                                                                     |                                                             |                                                                                                                                                                               |                |  |
|-------------------------------------------------------------------------------------------|---------------|----------|----|---------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| Scales                                                                                    | N/A           | Drawn    | BC | Project                                                             | ACCESS LOGISTIC PARK                                        | OCHRE ENVIRONMETAL MANAGEMENT                                                                                                                                                 |                |  |
|                                                                                           |               | Designed | BC |                                                                     |                                                             |  <div>PO Box 70<br/>Kurrajong, NSW 2758<br/>ABN 18 640 756 038<br/>Tel: 0407782830</div> |                |  |
| Grid                                                                                      | MGA94 ZONE 56 | Checked  | BC |                                                                     |                                                             |                                                                                                                                                                               |                |  |
| Height Datum                                                                              | AHD           | Approved |    |                                                                     |                                                             |                                                                                                                                                                               |                |  |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |               |          |    | Title                                                               | Status<br>INITIAL SUBMISSION                                |                                                                                                                                                                               | F              |  |
|                                                                                           |               |          |    | EROSION AND SEDIMENT CONTROL<br><br>PLAN – CROSS-SECTIONS - SHEET 7 | Project No. - Drawing No.<br><br>P104_ALTIS_SSD17647189-ESC |                                                                                                                                                                               | Issue<br><br>1 |  |



| Issue | Description                        | Date     |
|-------|------------------------------------|----------|
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24 |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24 |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24 |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24 |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-24 |
| A     | INITIAL SUBMISSION                 | 18-04-24 |



Client

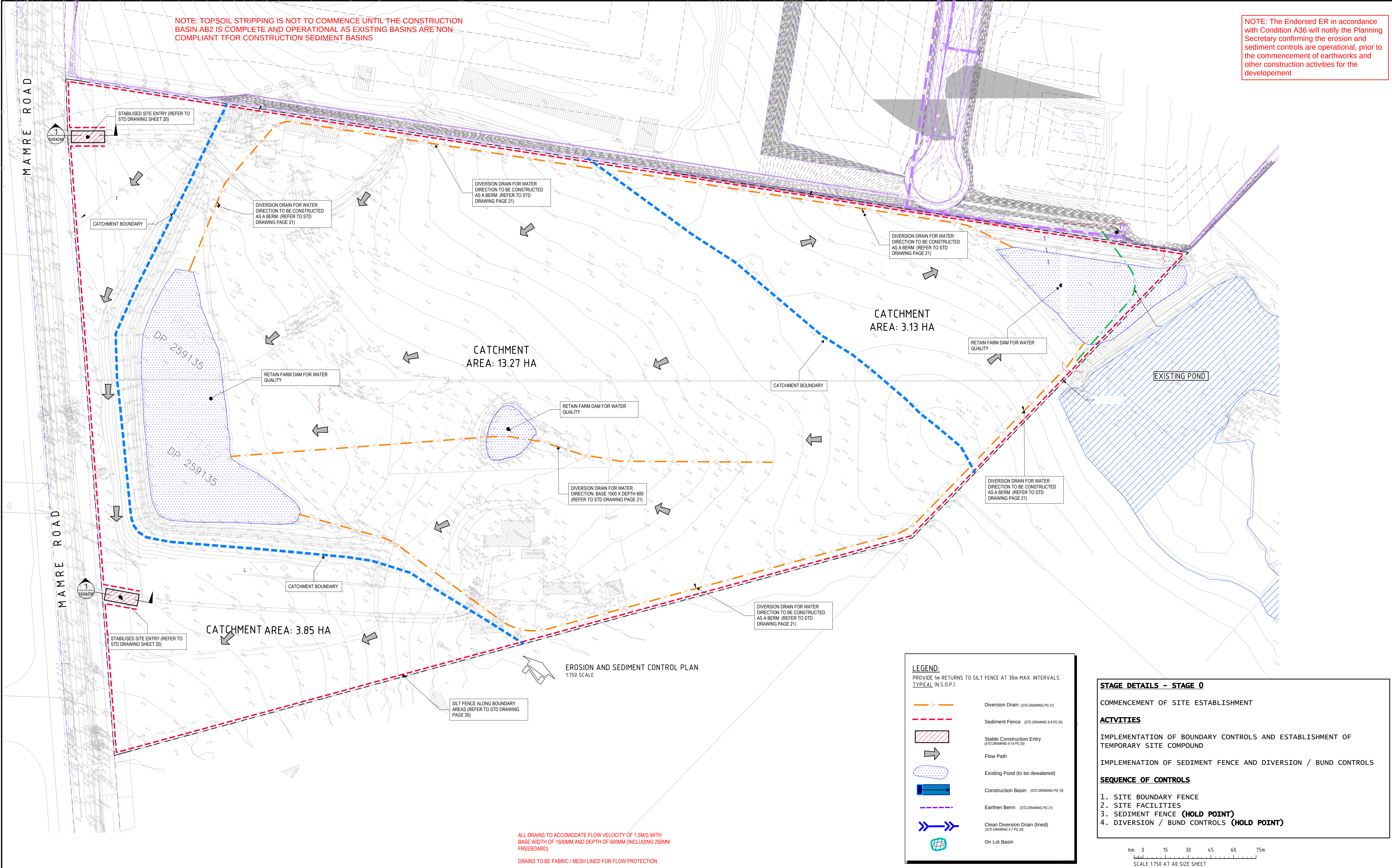


|                                                                                           |               |          |    |
|-------------------------------------------------------------------------------------------|---------------|----------|----|
| Scales                                                                                    | N/A           | Drawn    | BC |
|                                                                                           |               | Designed | BC |
| Grid                                                                                      | MGA94 ZONE 56 | Checked  | BC |
| Height Datum                                                                              | AHD           | Approved |    |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |               |          |    |

|         |                                                                 |
|---------|-----------------------------------------------------------------|
| Project | ACCESS LOGISTIC PARK                                            |
| Title   | EROSION AND SEDIMENT CONTROL<br>PLAN - CROSS-SECTIONS - SHEET 8 |

|                                                                           |            |
|---------------------------------------------------------------------------|------------|
| OCHRE ENVIRONMENTAL MANAGEMENT                                            |            |
|                                                                           |            |
| PO Box 70<br>Kurralong, NSW 2758<br>ABN 16 640 756 038<br>Tel: 0407782830 |            |
| Status<br>INITIAL SUBMISSION                                              | F          |
| Project No. - Drawing No.<br>P104_ALTIS_SSD17647189-ESC                   | Issue<br>1 |





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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------|--|--|--|--|--|--|--|--|--|---|------------------------------------|----------|---|-----------------------------|----------|---|-----------------------------|----------|---|-----------------------------|----------|---|-----------------------------|------------|---|--------------------|------------|-------|-------------|------|--------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|----|----------|----|--------------------|---------|----|---------------------|----------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---|---------------------------------------------------------|------------|
| <table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>F</td><td>UPDATED TO PAGE 11 DIVERSION DRAIN</td><td>29-07-24</td></tr><tr><td>E</td><td>UPDATED TO ADDRESS COMMENTS</td><td>14-06-24</td></tr><tr><td>D</td><td>UPDATED TO ADDRESS COMMENTS</td><td>05-06-24</td></tr><tr><td>C</td><td>UPDATED TO ADDRESS COMMENTS</td><td>28-05-24</td></tr><tr><td>B</td><td>UPDATED TO ADDRESS COMMENTS</td><td>30-04-2024</td></tr><tr><td>A</td><td>INITIAL SUBMISSION</td><td>18-04-2024</td></tr><tr><td>Issue</td><td>Description</td><td>Date</td></tr></table> |                                                                          |            |  |  |  |  |  |  |  |  |  | F | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24 | E | UPDATED TO ADDRESS COMMENTS | 14-06-24 | D | UPDATED TO ADDRESS COMMENTS | 05-06-24 | C | UPDATED TO ADDRESS COMMENTS | 28-05-24 | B | UPDATED TO ADDRESS COMMENTS | 30-04-2024 | A | INITIAL SUBMISSION | 18-04-2024 | Issue | Description | Date | <div>Bar Scales<br/>Approx</div> <div><div>6m01530456075m</div><div>SCALE 1:750 AT A0 SIZE SHEET</div></div> | <div>Key Plan</div> <div></div> | <div>Client</div> <div></div> | <table><tr><td rowspan="2">Scales<br/>N.T.S</td><td>Drawn</td><td>BC</td></tr><tr><td>Designed</td><td>BC</td></tr><tr><td>Grid MGA94 ZONE 56</td><td>Checked</td><td>BC</td></tr><tr><td>Height Datum<br/>AHD</td><td>Approved</td><td></td></tr></table> <div>THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY</div> | Scales<br>N.T.S | Drawn | BC | Designed | BC | Grid MGA94 ZONE 56 | Checked | BC | Height Datum<br>AHD | Approved |  | <table><tr><td>Project<br/>ACCESS LOGISTIC PARK</td><td rowspan="2">Title<br/>EROSION AND SEDIMENT CONTROL<br/>PLAN -- ESTABLISHMENT - SHEET 9</td></tr><tr><td></td></tr></table> | Project<br>ACCESS LOGISTIC PARK | Title<br>EROSION AND SEDIMENT CONTROL<br>PLAN -- ESTABLISHMENT - SHEET 9 |  | <div>OCHRE ENVIRONMETAL MANAGEMENT</div> <div><div></div><div>PO Box 70<br/>Kurrajong, NSW 2758<br/>ABN 18 640 756 038<br/>Tel: 0407782830<br/>www.ochreenvironmental.com</div></div> <table><tr><td>Status<br/>INITIAL SUBMISSION</td><td>F</td></tr><tr><td>Project No. - Drawing No.<br/>P104_ALTIS_SSD17647189-ESC</td><td>Issue<br/>1</td></tr></table> | Status<br>INITIAL SUBMISSION | F | Project No. - Drawing No.<br>P104_ALTIS_SSD17647189-ESC | Issue<br>1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |            |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |            |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |            |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UPDATED TO PAGE 11 DIVERSION DRAIN                                       | 29-07-24   |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UPDATED TO ADDRESS COMMENTS                                              | 14-06-24   |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UPDATED TO ADDRESS COMMENTS                                              | 05-06-24   |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UPDATED TO ADDRESS COMMENTS                                              | 28-05-24   |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UPDATED TO ADDRESS COMMENTS                                              | 30-04-2024 |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | INITIAL SUBMISSION                                                       | 18-04-2024 |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| Issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Description                                                              | Date       |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| Scales<br>N.T.S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Drawn                                                                    | BC         |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Designed                                                                 | BC         |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| Grid MGA94 ZONE 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Checked                                                                  | BC         |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| Height Datum<br>AHD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Approved                                                                 |            |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| Project<br>ACCESS LOGISTIC PARK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Title<br>EROSION AND SEDIMENT CONTROL<br>PLAN -- ESTABLISHMENT - SHEET 9 |            |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |            |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| Status<br>INITIAL SUBMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | F                                                                        |            |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |
| Project No. - Drawing No.<br>P104_ALTIS_SSD17647189-ESC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Issue<br>1                                                               |            |  |  |  |  |  |  |  |  |  |   |                                    |          |   |                             |          |   |                             |          |   |                             |          |   |                             |            |   |                    |            |       |             |      |                                                                                                              |                                 |                               |                                                                                                                                                                                                                                                                                                                                                                 |                 |       |    |          |    |                    |         |    |                     |          |  |                                                                                                                                                                                    |                                 |                                                                          |  |                                                                                                                                                                                                                                                                                                                                                              |                              |   |                                                         |            |

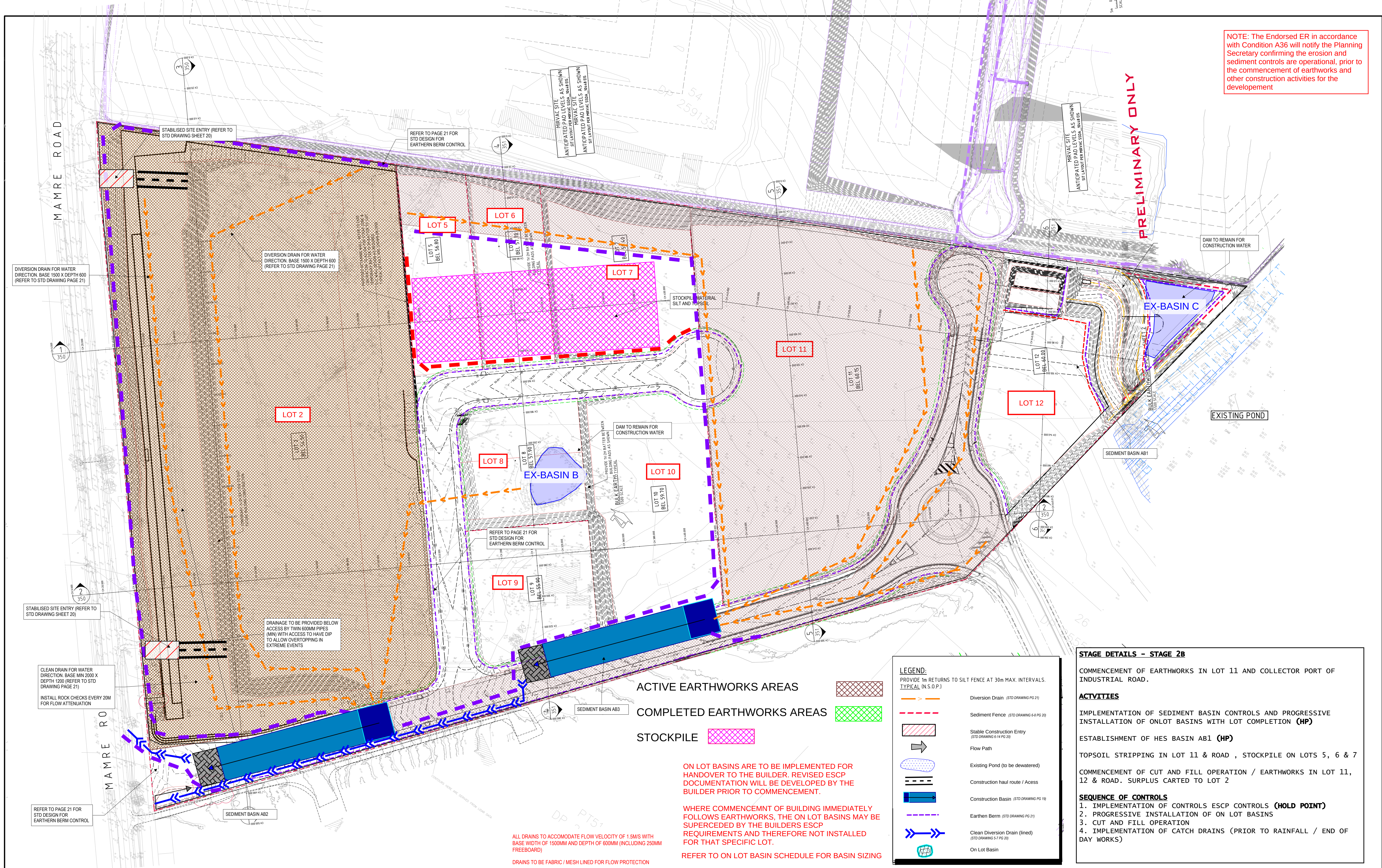












|                                                     |  |                                    |  |            |  |                                                                                           |  |          |  |                      |  |                                                                                                            |  |
|-----------------------------------------------------|--|------------------------------------|--|------------|--|-------------------------------------------------------------------------------------------|--|----------|--|----------------------|--|------------------------------------------------------------------------------------------------------------|--|
| Bar Scales<br>Approx                                |  | Key Plan                           |  | Client     |  | Scales                                                                                    |  | Drawn    |  | Project              |  | OCHRE ENVIRONMETAL MANAGEMENT                                                                              |  |
| 5m 0 10 20 30 40 50m<br>SCALE 1500 AT A3 SIZE SHEET |  |                                    |  |            |  | N.T.S                                                                                     |  | BC       |  | ACCESS LOGISTIC PARK |  | PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407782830<br>www.ochreenvironmental.com.au |  |
| F                                                   |  | UPDATED TO PAGE 11 DIVERSION DRAIN |  | 29-07-24   |  | Grid MGA94 ZONE 56                                                                        |  | Designed |  | BC                   |  | Status                                                                                                     |  |
| E                                                   |  | UPDATED TO ADDRESS COMMENTS        |  | 14-06-24   |  | Height Datum                                                                              |  | Checked  |  | BC                   |  | INITIAL SUBMISSION                                                                                         |  |
| D                                                   |  | UPDATED TO ADDRESS COMMENTS        |  | 05-06-24   |  | AHD                                                                                       |  | Approved |  |                      |  | Project No. - Drawing No.                                                                                  |  |
| C                                                   |  | UPDATED TO ADDRESS COMMENTS        |  | 28-05-24   |  | THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |  |          |  | Title                |  | P104_ALTIS_SSD17647189-ESC                                                                                 |  |
| B                                                   |  | UPDATED TO ADDRESS COMMENTS        |  | 30-04-2024 |  | EROSION AND SEDIMENT CONTROL PLAN -- EARTHWORKS - SHEET 12                                |  |          |  |                      |  | Issue                                                                                                      |  |
| A                                                   |  | INITIAL SUBMISSION                 |  | 18-04-2024 |  |                                                                                           |  |          |  |                      |  | 1                                                                                                          |  |
| Issue                                               |  | Description                        |  | Date       |  |                                                                                           |  |          |  |                      |  |                                                                                                            |  |





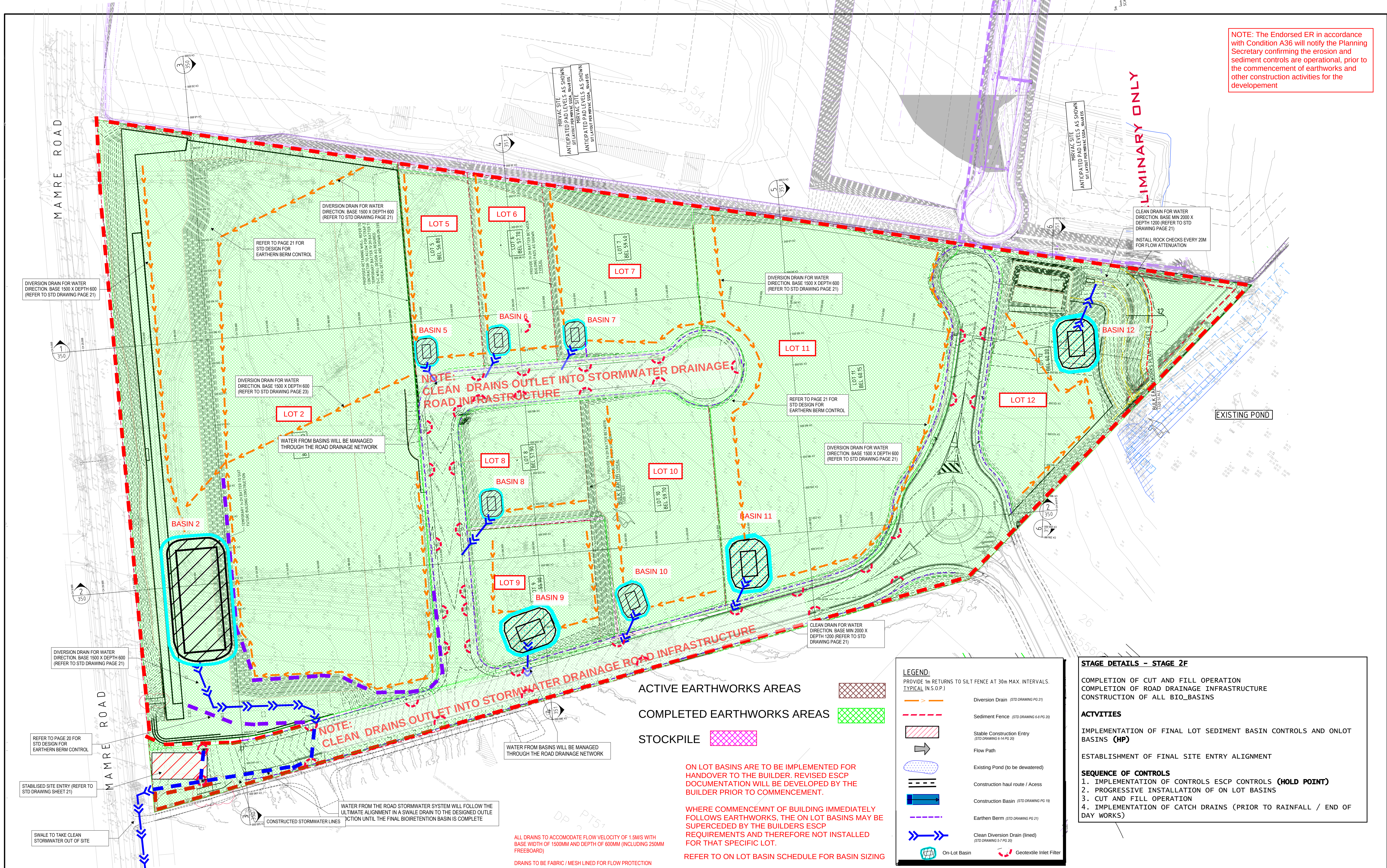












|       |                                    |  |                                                                                     |  |            |                                                                                       |                                                                                              |         |          |         |                                                                                       |                                                               |                                                                                       |  |                                                                                                                                                                                                                 |  |
|-------|------------------------------------|--|-------------------------------------------------------------------------------------|--|------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------|----------|---------|---------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|       |                                    |  | Bar Scales<br>Approx                                                                |  | Key Plan   | Client                                                                                | Scales                                                                                       | Drawn   | BC       | Project | OCHRE ENVIRONMETAL MANAGEMENT                                                         |                                                               |                                                                                       |  |                                                                                                                                                                                                                 |  |
|       |                                    |  |  |  |            |                                                                                       |                                                                                              |         |          |         |  |                                                               |  |  |  <div>PO Box 70<br/>Kurrajong, NSW 2758<br/>ABN 18 640 756 038<br/>Tel: 0407782830<br/>www.ochreenvironmental.com.au</div> |  |
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN |  |                                                                                     |  | 29-07-24   |  | Grid MGA94 ZONE 56                                                                           | Checked | BC       | Title   | ACCESS LOGISTIC PARK                                                                  |                                                               |                                                                                       |  |                                                                                                                                                                                                                 |  |
| E     | UPDATED TO ADDRESS COMMENTS        |  |                                                                                     |  | 14-06-24   |                                                                                       | Height<br>Datum                                                                              | AHD     | Approved |         |                                                                                       | EROSION AND SEDIMENT CONTROL<br>PLAN -- EARTHWORKS - SHEET 16 | Status<br>INITIAL SUBMISSION                                                          |  |                                                                                                                                                                                                                 |  |
| D     | UPDATED TO ADDRESS COMMENTS        |  |                                                                                     |  | 05-06-24   |                                                                                       | THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY<br>INTENDED BY BURTON CONTRACTORS ONLY |         |          |         | F                                                                                     |                                                               |                                                                                       |  |                                                                                                                                                                                                                 |  |
| C     | UPDATED TO ADDRESS COMMENTS        |  |                                                                                     |  | 28-05-24   |                                                                                       |                                                                                              |         |          |         | Project No. - Drawing No.                                                             |                                                               | Issue                                                                                 |  |                                                                                                                                                                                                                 |  |
| B     | UPDATED TO ADDRESS COMMENTS        |  |                                                                                     |  | 30-04-2024 |                                                                                       |                                                                                              |         |          |         | P104_ALTIS_SSD17647189-ESC                                                            |                                                               | 1                                                                                     |  |                                                                                                                                                                                                                 |  |
| A     | INITIAL SUBMISSION                 |  |                                                                                     |  | 18-04-2024 |                                                                                       |                                                                                              |         |          |         |                                                                                       |                                                               |                                                                                       |  |                                                                                                                                                                                                                 |  |
| Issue | Description                        |  |                                                                                     |  | Date       |                                                                                       |                                                                                              |         |          |         |                                                                                       |                                                               |                                                                                       |  |                                                                                                                                                                                                                 |  |



NOTE: The Endorsed ER in accordance with Condition A36 will notify the Planning Secretary confirming the erosion and sediment controls are operational, prior to the commencement of earthworks and other construction activities for the development

EROSION AND SEDIMENT CONTROL PLAN  
1:750 SCALE

ALL DRAINS TO ACCOMMODATE FLOW VELOCITY OF 1.5M/S WITH BASE WIDTH OF 1500MM AND DEPTH OF 600MM (INCLUDING 250MM FREEBOARD)  
DRAINS TO BE FABRIC / MESH LINED FOR FLOW PROTECTION

ON LOT BASINS ARE TO BE IMPLEMENTED FOR HANDOVER TO THE BUILDER. REVISED ESCP DOCUMENTATION WILL BE DEVELOPED BY THE BUILDER PRIOR TO COMMENCEMENT.

WHERE COMMENCEMENT OF BUILDING IMMEDIATELY FOLLOWS EARTHWORKS, THE ON LOT BASINS MAY BE SUPERCEDED BY THE BUILDERS ESCP REQUIREMENTS AND THEREFORE NOT INSTALLED FOR THAT SPECIFIC LOT.  
REFER TO ON LOT BASIN SCHEDULE FOR BASIN SIZING

LEGEND:  
PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS.  
TYPICAL (N.S.O.P.)

- Dirty Diversion Drain (STD DRAWING PG 21)
- Sediment Fence (STD DRAWING 6-8 PG 20)
- Stable Construction Entry (STD DRAWING 6-14 PG 20)
- Flow Path
- Existing Pond (to be dewatered)
- Construction Basin (STD DRAWING PG 18)
- Earthen Berm (STD DRAWING PG 21)
- On Lot Basin
- Bioretention Basin

STAGE DETAILS - STAGE 3A

COMPLETION OF EARTHWORKS & STORMWATER DRAINAGE. COMPLETION OF ON LOT BASINS AND REVEGETATION AREAS. REMOVAL OF BASINS AND UNREQUIRED EROSION AND SEDIMENT CONTROL MEASURES.

ACTIVITIES

COMPLETION OF CUT AND FILL OPERATION / EARTHWORKS. INSTALLATION OF ALL ON LOT BASINS AND REMOVAL OF CONSTRUCTION BASINS.

IMPLEMENTATION OF EROSION SEDIMENT CONTROLS ON LOTS FOR HANDOVER TO BUILDERS

SEQUENCE OF CONTROLS

1. COMPLETION OF ON LOT BASINS (HP)
2. COMPLETION OF LANDSCAPE AND STABILISATION ACTIVITIES (HP)
3. PROGRESSIVE REMOVAL OF CONSTRUCTION BASINS

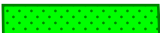
ON LOT BASINS ARE TO BE IMPLEMENTED FOR  
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DOCUMENTATION WILL BE DEVELOPED BY THE  
BUILDER PRIOR TO COMMENCEMENT.

WHERE COMMENCEMENT OF BUILDING IMMEDIATELY  
FOLLOWS EARTHWORKS, THE ON LOT BASINS MAY BE  
SUPERCEDED BY THE BUILDERS ESCP  
REQUIREMENTS AND THEREFORE NOT INSTALLED  
FOR THAT SPECIFIC LOT.

REFER TO ON LOT BASIN SCHEDULE FOR BASIN SIZING

**LEGEND:**

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS.  
**TYPICAL IN S O P J**

|                                                                                       |                                                      |
|---------------------------------------------------------------------------------------|------------------------------------------------------|
|  | Dirty Diversion Drain (STD DRAWING PG 2)             |
|  | Sediment Fence (STD DRAWING 6-8 PG 20)               |
|  | Stable Construction Entry<br>(STD DRAWING 6-4 PG 20) |
|  | Flow Path                                            |
|  | Existing Pond (to be dewatered)                      |
|  | Construction Basin (STD DRAWING PG 19)               |
|  | Earthen Berm (STD DRAWING PG 21)                     |
|  | On Lot Basin                                         |
|  | Bioretention Basin                                   |

**STAGE DETAILS - STAGE 3A**

COMPLETION OF EARTHWORKS & STORMWATER DRAINAGE. COMPLETION OF ON LOT BASINS AND REVEGETATION AREAS. REMOVAL OF BASINS AND UNREQUIRED EROSION AND SEDIMENT CONTROL MEASURES.

**ACTIVITIES**

COMPLETION OF CUT AND FILL OPERATION / EARTHWORKS. INSTALLATION OF ALL ON LOT BASINS AND REMOVAL OF CONSTRUCTIN BASINS.

IMPLEMENTATION OF EROSION SEDIMENT CONTROLS ON LOTS FOR HANDOVER TO BUILDERS

**SEQUENCE OF CONTROLS**

1. COMPLETION OF ON LOT BASINS (HP)
2. COMPLETION OF LANDSCAPE AND STABILISATION ACTIVITIES (HP)
3. PROGRESSIVE REMOVAL OF CONSTRUCTIN BASINS

|       |                                    |            |
|-------|------------------------------------|------------|
|       |                                    |            |
|       |                                    |            |
|       |                                    |            |
|       |                                    |            |
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24   |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24   |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24   |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24   |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-2024 |
| A     | INITIAL SUBMISSION                 | 18-04-2024 |
| Issue | Description                        | Date       |



|          |
|----------|
| Key Plan |
|----------|



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|--|--------|
|  | Client |
|--|--------|



|        |       |
|--------|-------|
| Scales | N.T.S |
|--------|-------|

Grid MGA94 ZONE 56

|                 |     |
|-----------------|-----|
| Height<br>Datum | AHD |
|-----------------|-----|

THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY  
INTENDED BY BURTON CONTRACTORS ONLY

|       |     |
|-------|-----|
| Drawn | BC  |
| ...   | ... |

|   |         |    |
|---|---------|----|
| 6 | Checked | BC |
|---|---------|----|

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| Approved |  |
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|  | Project |
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## ACCESS LOGISTIC PARK

|  |       |
|--|-------|
|  | Title |
|--|-------|

EROSION AND SEDIMENT CONTROL  
PLAN -- EARTHWORKS - SHEET 17

## OCHRE ENVIRONMETAL MANAGEMENT



PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830  
[www.ochreenvironmental.com.au](http://www.ochreenvironmental.com.au)

|        |                    |
|--------|--------------------|
| Status | INITIAL SUBMISSION |
|--------|--------------------|

Project No. - Drawing No.

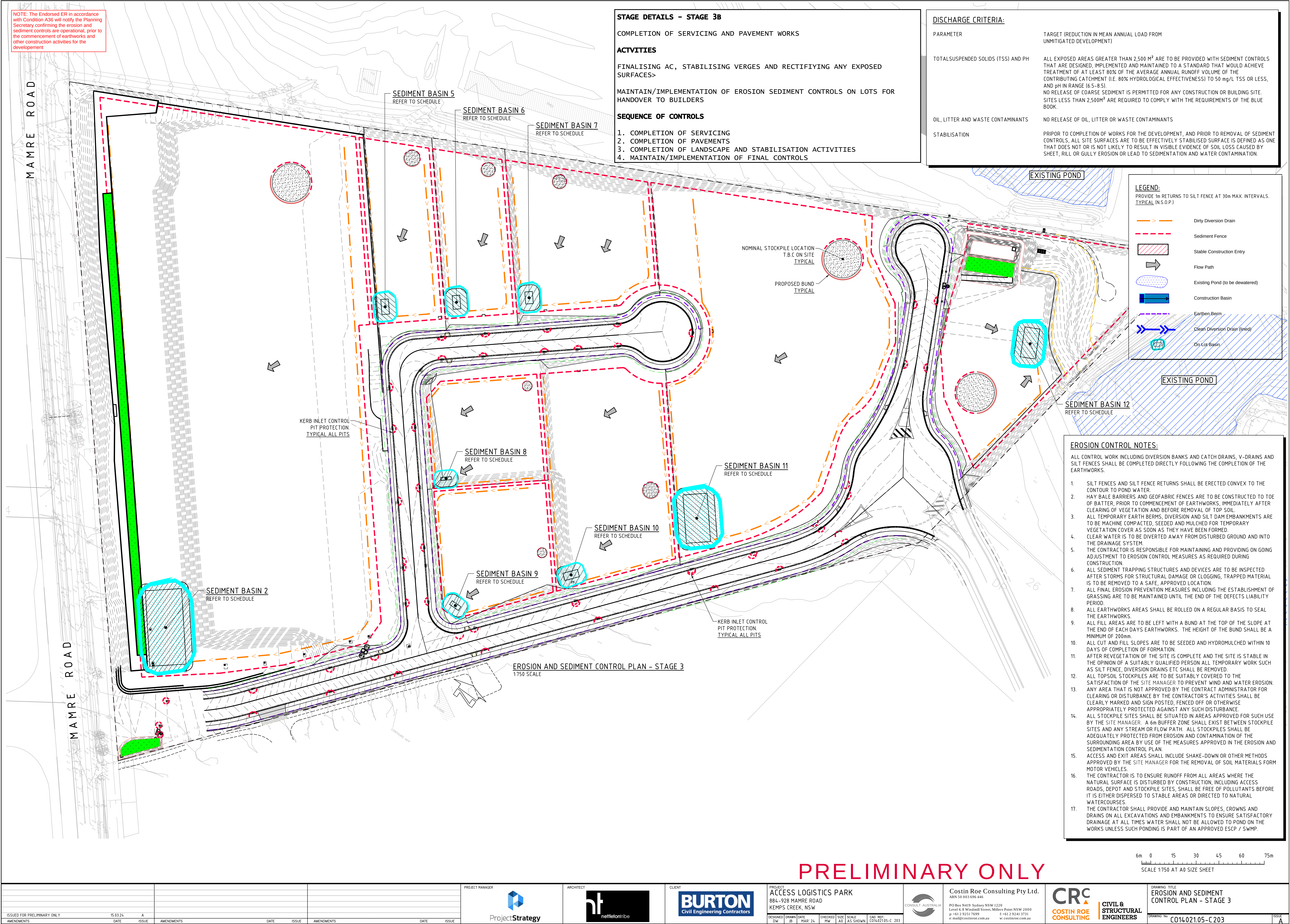
P104 ALTIS SSD17647189-ESC

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|  | Issue |
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1







DISCHARGE CRITERIA:

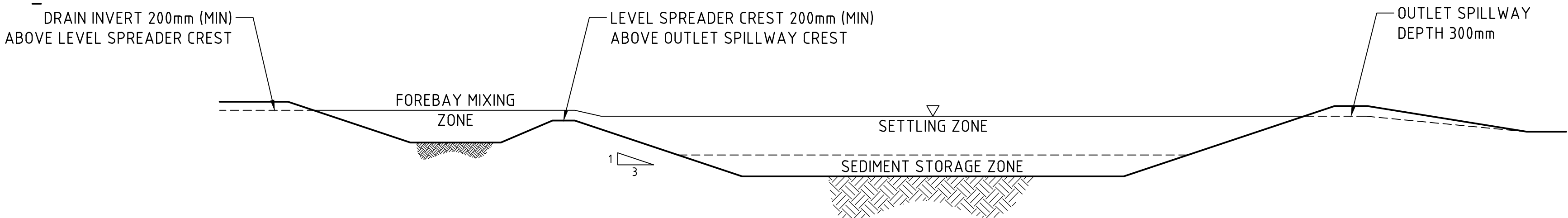
| PARAMETER                          | TARGET (REDUCTION IN MEAN ANNUAL LOAD FROM UNMITIGATED DEVELOPMENT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TOTALSUSPENDED SOLIDS (TSS) AND PH | ALL EXPOSED AREAS GREATER THAN 2,500 M <sup>2</sup> ARE TO BE PROVIDED WITH SEDIMENT CONTROLS THAT ARE DESIGNED, IMPLEMENTED AND MAINTAINED TO A STANDARD THAT WOULD ACHIEVE TREATMENT OF AT LEAST 80% OF THE AVERAGE ANNUAL RUNOFF VOLUME OF THE CONTRIBUTING CATCHMENT (I.E. 80% HYDROLOGICAL EFFECTIVENESS) TO 50 mg/L TSS OR LESS, AND pH IN RANGE (6.5-8.5).<br>NO RELEASE OF COARSE SEDIMENT IS PERMITTED FOR ANY CONSTRUCTION OR BUILDING SITE. SITES LESS THAN 2,500M <sup>2</sup> ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE BLUE BOOK. |
| OIL, LITTER AND WASTE CONTAMINANTS | NO RELEASE OF OIL, LITTER OR WASTE CONTAMINANTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| STABILISATION                      | PRIOR TO COMPLETION OF WORKS FOR THE DEVELOPMENT, AND PRIOR TO REMOVAL OF SEDIMENT CONTROLS, ALL SITE SURFACES ARE TO BE EFFECTIVELY STABILISED SURFACE IS DEFINED AS ONE THAT DOES NOT OR IS NOT LIKELY TO RESULT IN VISIBLE EVIDENCE OF SOIL LOSS CAUSED BY SHEET, RILL OR GULLY EROSION OR LEAD TO SEDIMENTATION AND WATER CONTAMINATION.                                                                                                                                                                                                              |

STAGED CONSTRUCTION

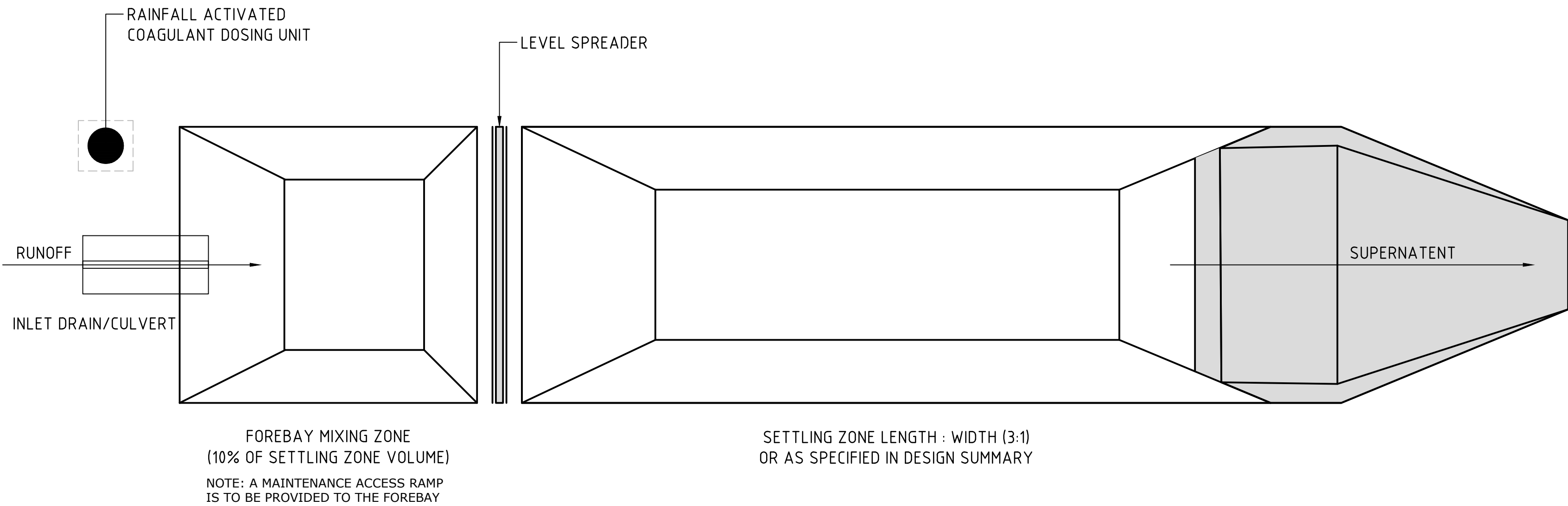
NOTE: The Endorsed ER in accordance with Condition A36 will notify the Planning Secretary confirming the erosion and sediment controls are operational, prior to the commencement of earthworks and other construction activities for the development

STAGE 1 - INITIAL SITE ESTABLISHMENT  
EROSION CONTROL MEASURES AS NOTED

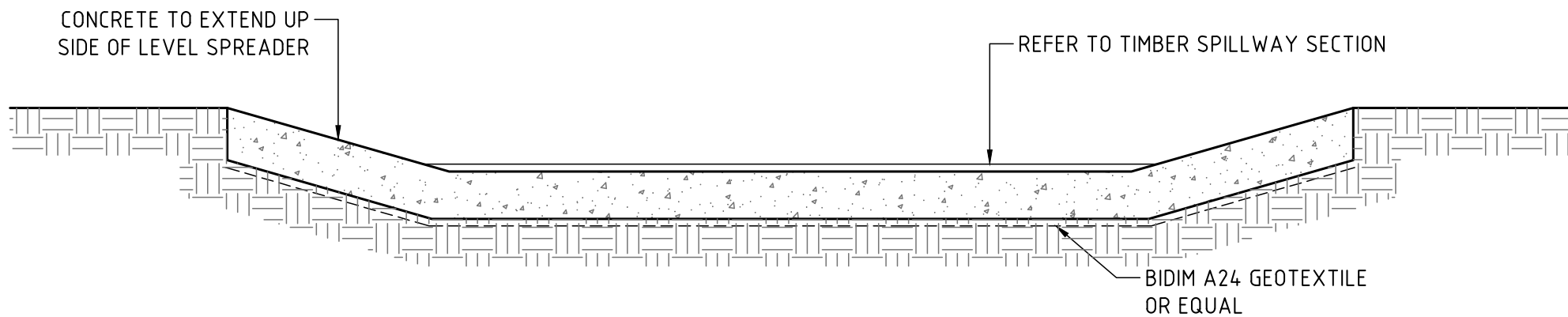
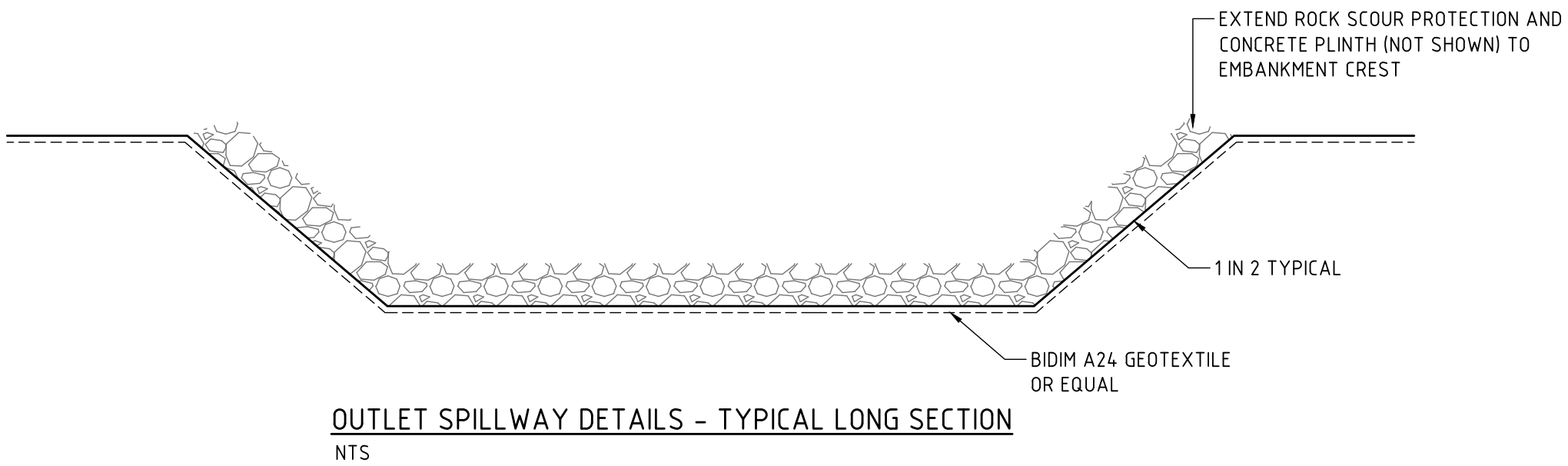
STAGE 2 - MAJORITY OF STORMWATER INFRASTRUCTURE COMPLETED, PADS BENCHED & RETAINING WALLS CONSTRUCTED. STORMWATER FROM DEVELOPED LOTS DIVERTED TO RETENTION BASIN. STORMWATER FROM UNDEVELOPED PADS DIVERTED TO SEDIMENT BASINS.



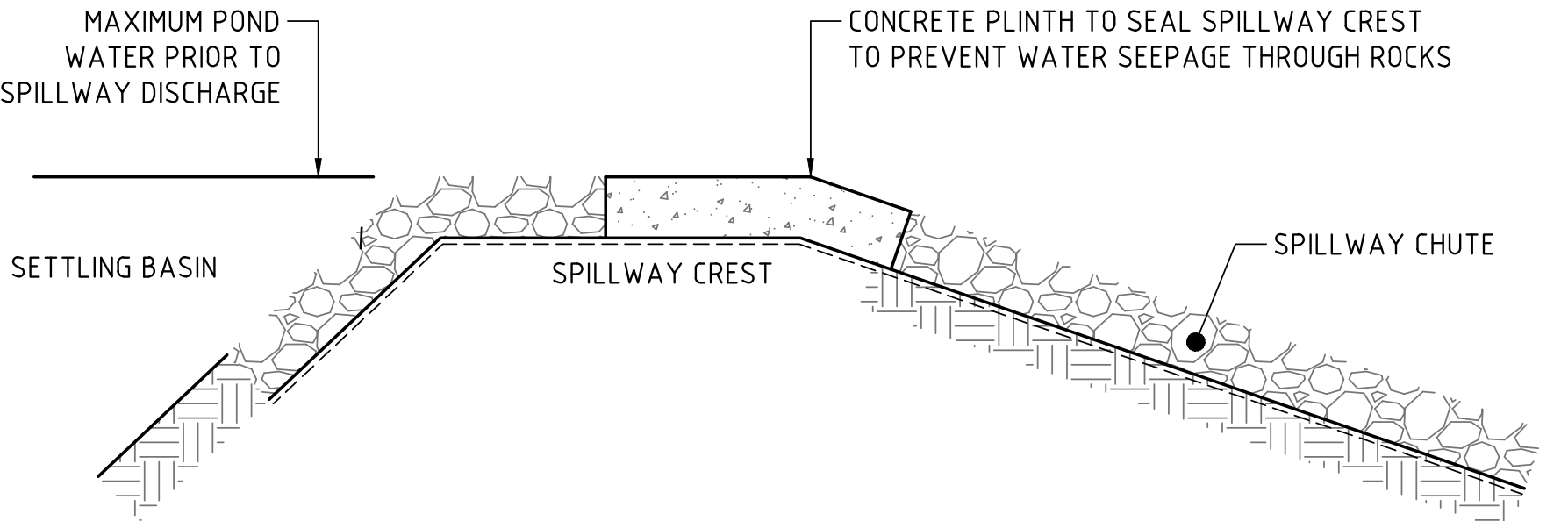
TYPE B - HIGH EFFICIENCY SEDIMENT LONG SECTION  
NTS



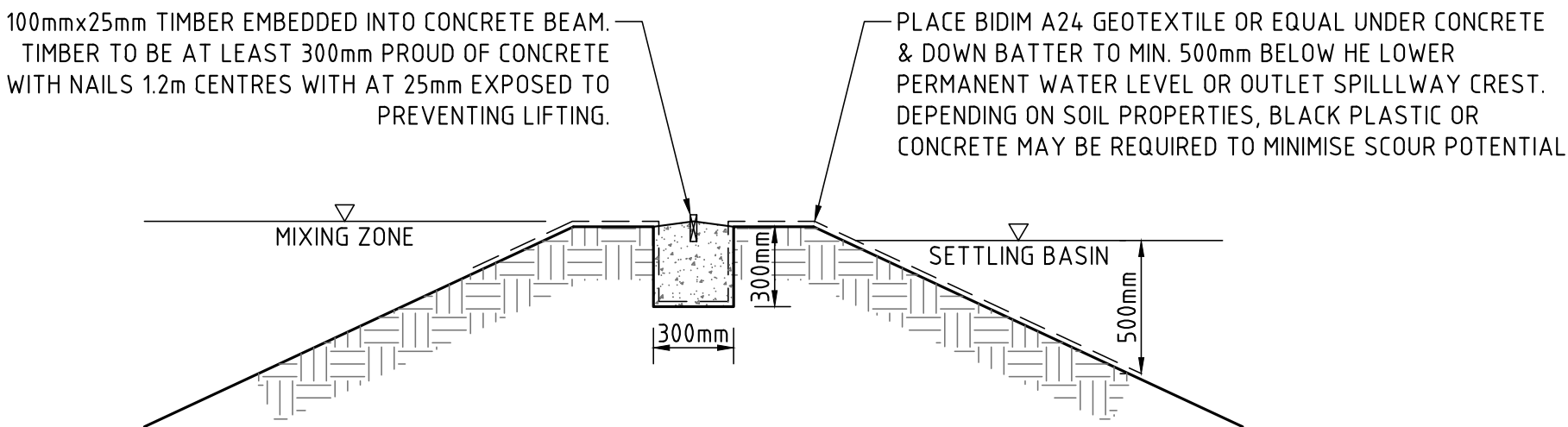
TYPE B - HIGH EFFICIENCY SEDIMENT BASIN PLAN VIEW  
NTS



LEVEL SPREADER DETAILS - TYPICAL LONG SECTION  
NTS



OUTLET SPILLWAY DETAILS - TYPICAL CROSS SECTION  
NTS



LEVEL SPREADER DETAILS - TYPICAL CROSS SECTION  
NTS

| Issue | Description                        | Date       |
|-------|------------------------------------|------------|
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24   |
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| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-2024 |
| A     | INITIAL SUBMISSION                 | 18-04-2024 |

Key Plan



Client



Scales

N/A

Drawn

BC

Designed

BC

Checked

BC

Approved

Height Datum

AHD

Project

ACCESS LOGISTIC PARK

Title

EROSION AND SEDIMENT CONTROL  
PLAN -- BASIN DESIGN - SHEET 19

OCHRE ENVIRONMETAL MANAGEMENT



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Status

INITIAL SUBMISSION

F

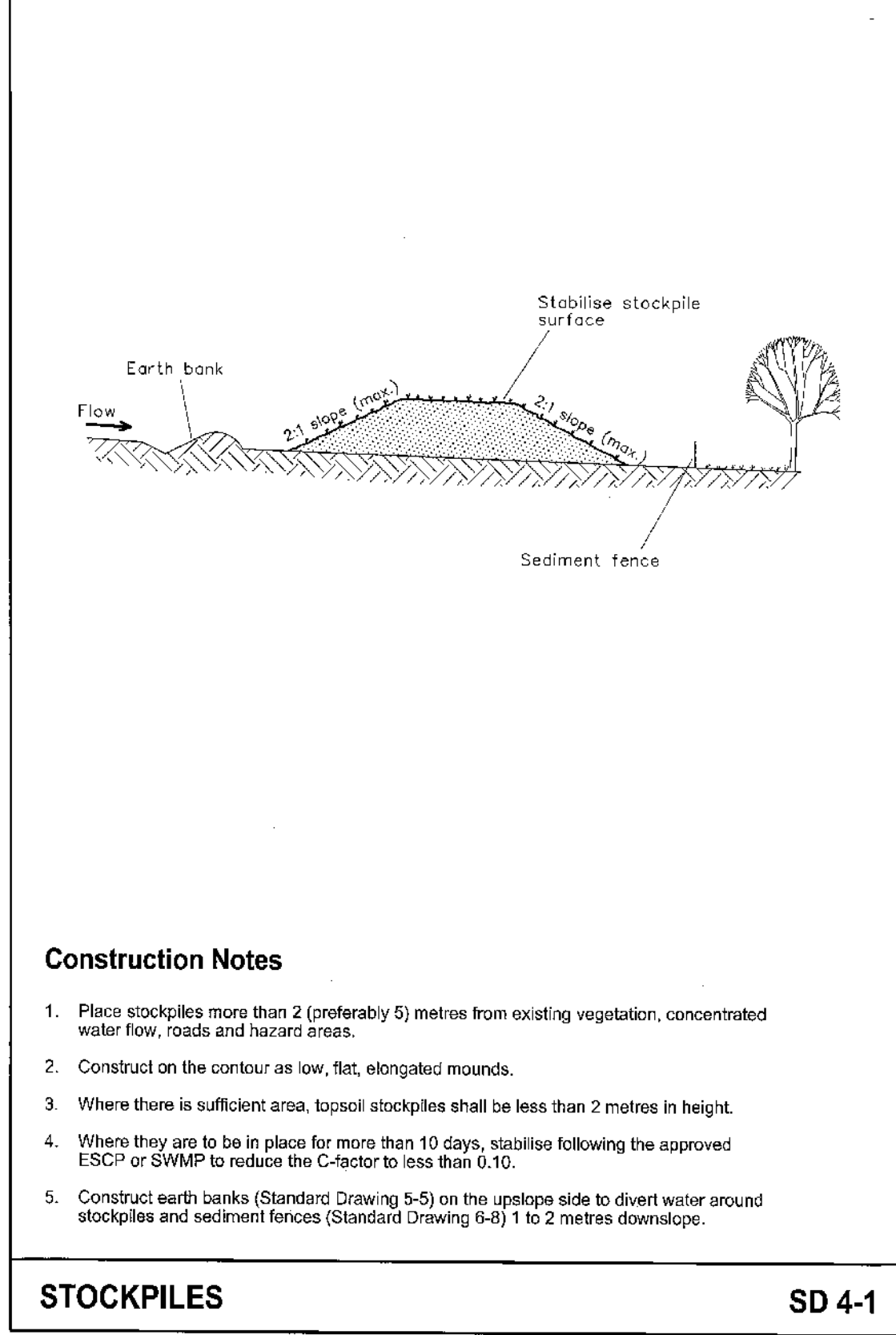
Project No. - Drawing No.

P104\_ALTIS\_SSD17647189-ESC

Issue

1



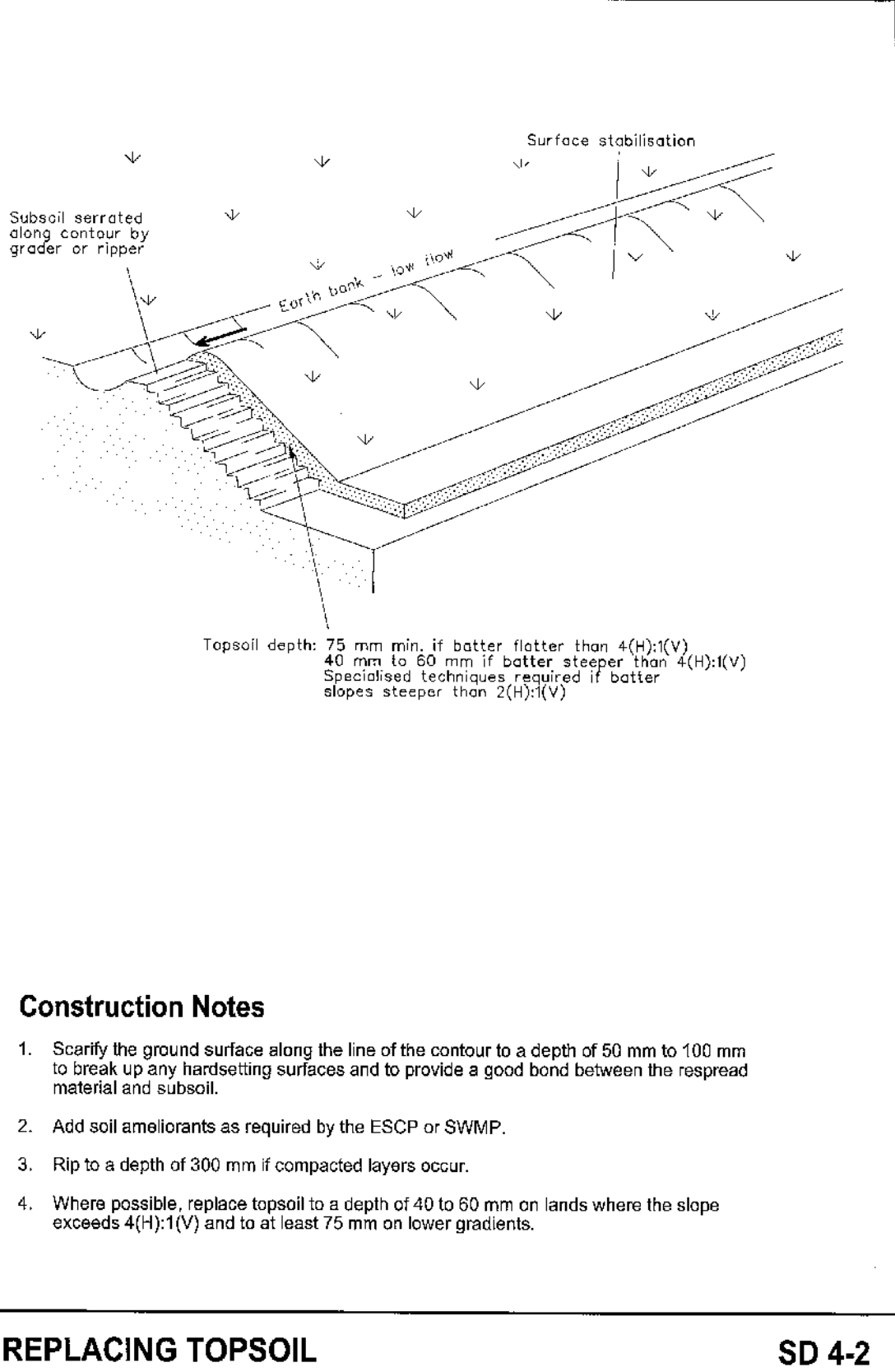


Construction Notes

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES

SD 4-1

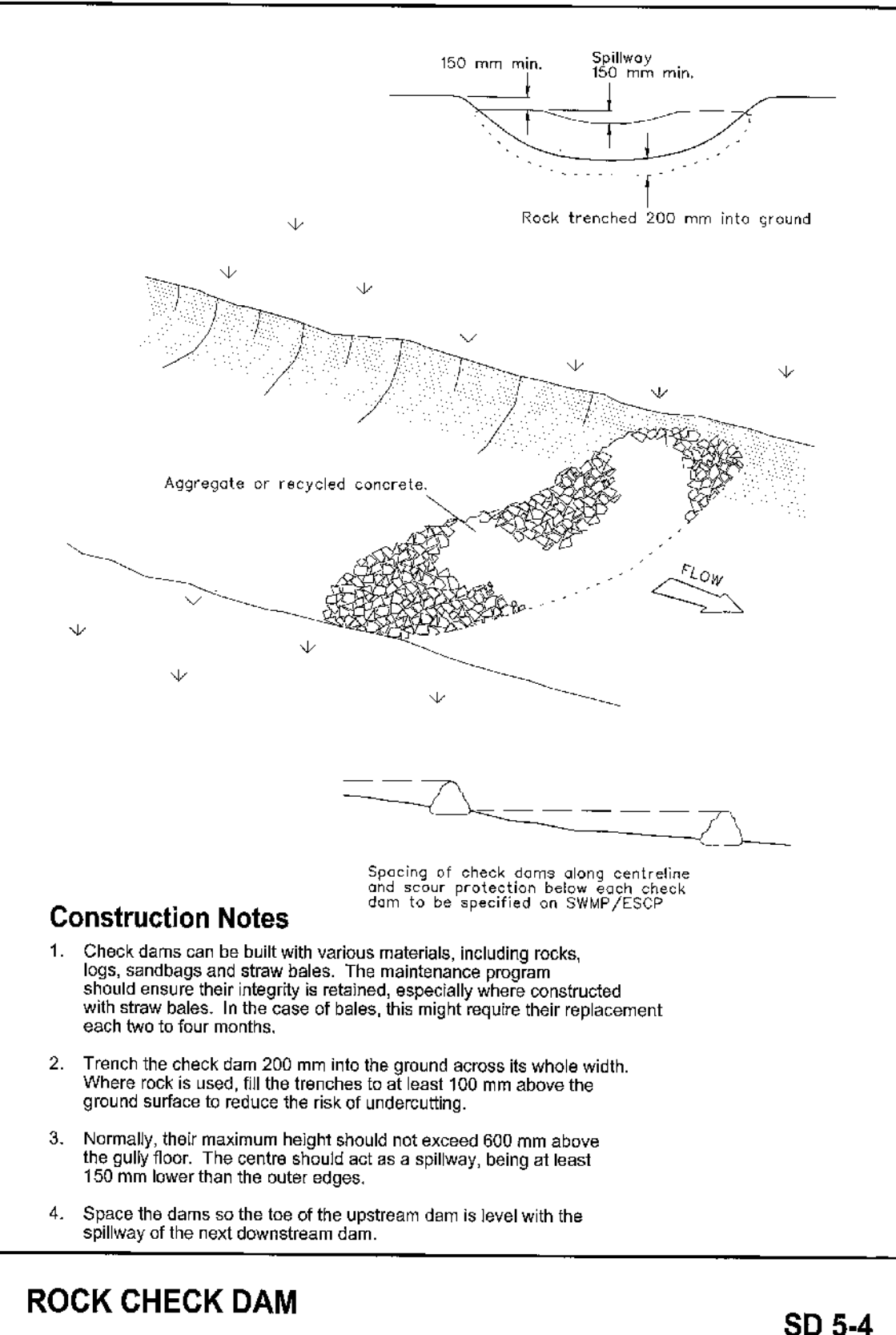


Construction Notes

1. Scarify the ground surface along the line of the contour to a depth of 50 mm to 100 mm to break up any hardsetting surfaces and to provide a good bond between the respread material and subsoil.
2. Add soil ameliorants as required by the ESCP or SWMP.
3. Rip to a depth of 300 mm if compacted layers occur.
4. Where possible, replace topsoil to a depth of 40 to 60 mm on lands where the slope exceeds 4(H):1(V) and to at least 75 mm on lower gradients.

REPLACING TOPSOIL

SD 4-2

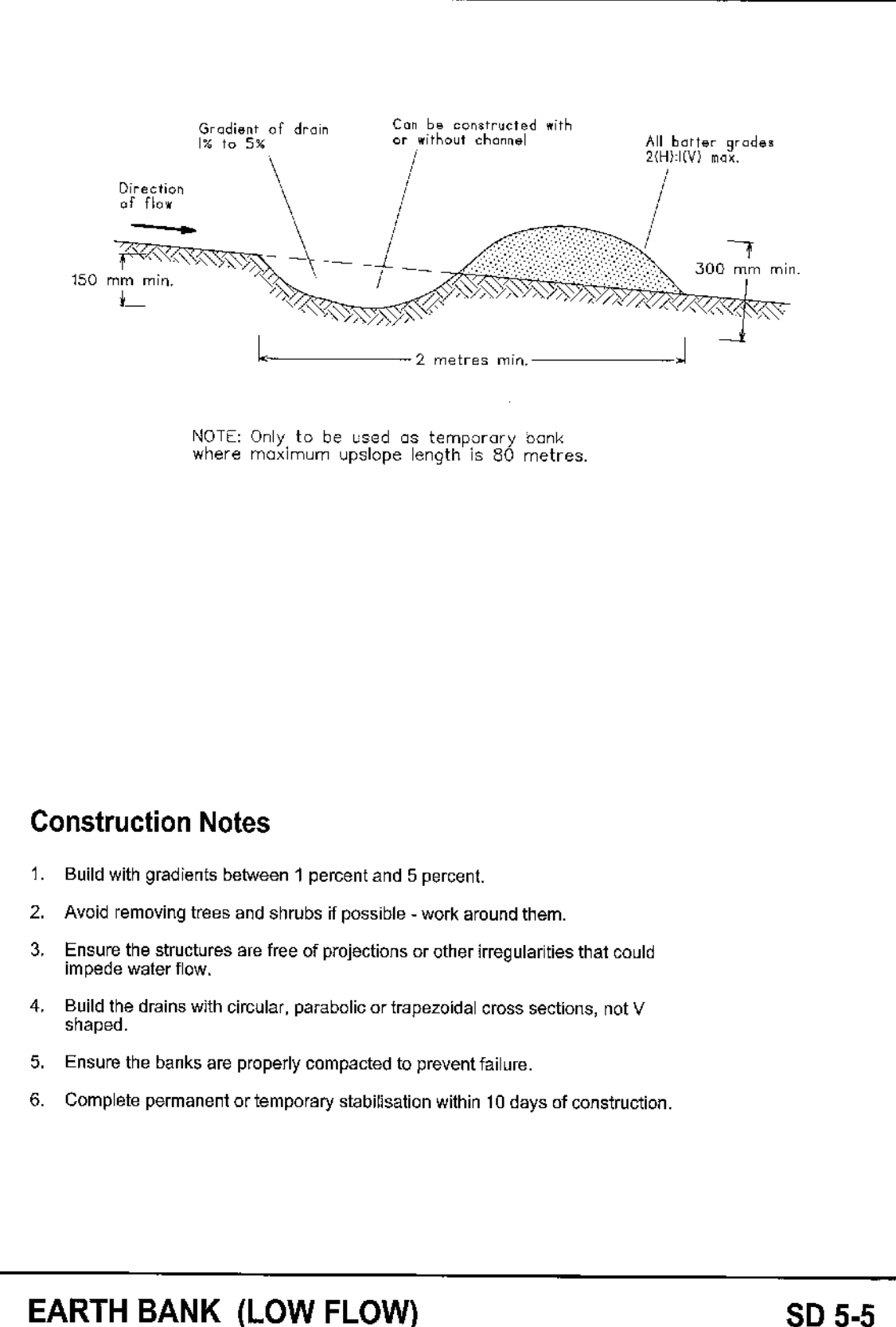


Construction Notes

1. Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months.
2. Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting.
3. Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should act as a spillway, being at least 150 mm lower than the outer edges.
4. Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.

ROCK CHECK DAM

SD 5-4

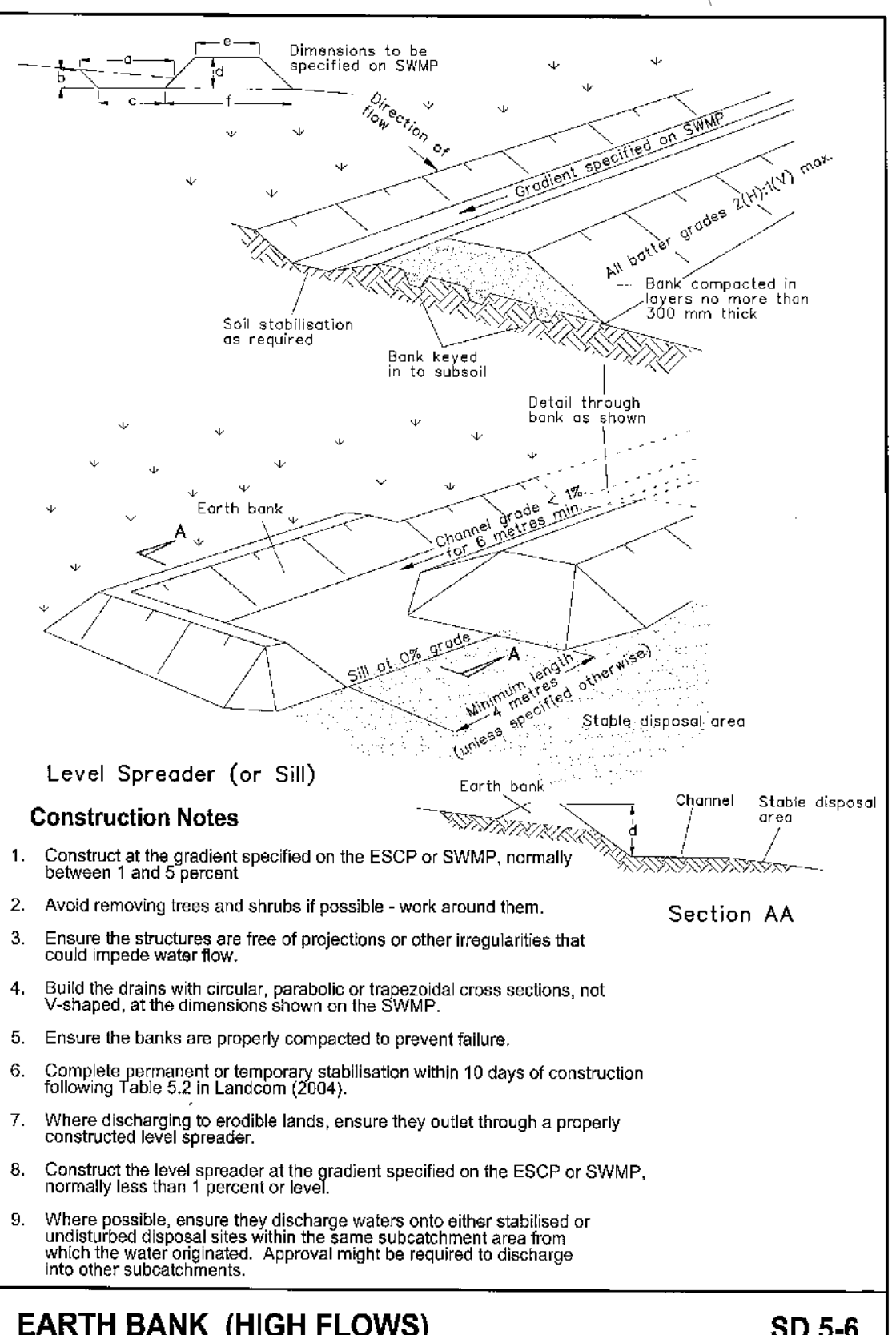


Construction Notes

1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-5



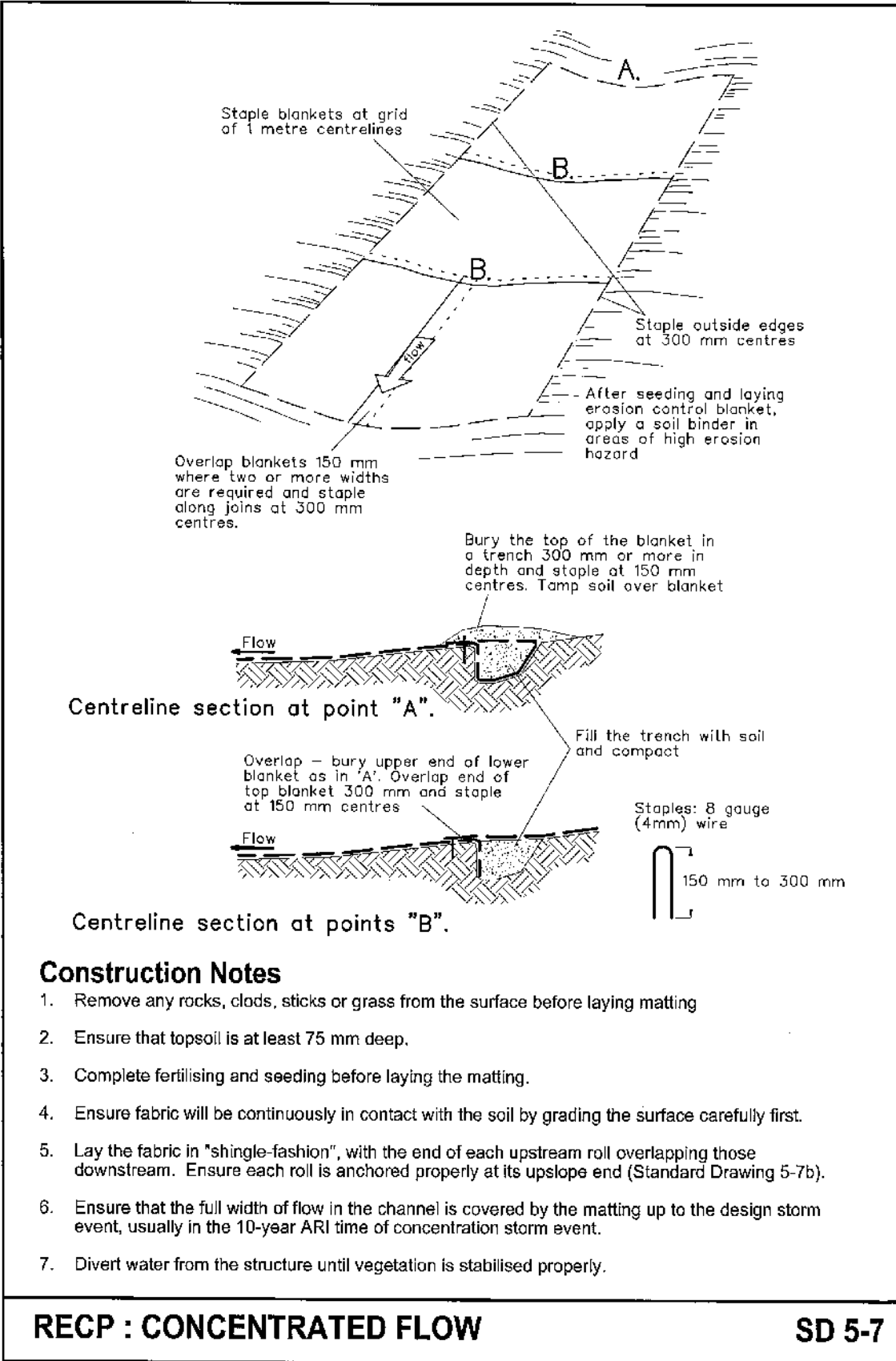
Level Spreader (or Sill)

Construction Notes

1. Construct at the gradient specified on the ESCP or SWMP, normally between 1 and 5 percent
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the structures with circular, parabolic or trapezoidal cross sections, not V-shaped, at the dimensions shown on the SWMP.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction following Table 5.2 in Landcom (2004).
7. Where discharging to erodible lands, ensure they outlet through a properly constructed level spreader.
8. Construct the level spreader at the gradient specified on the ESCP or SWMP, normally less than 1 percent or level.
9. Where possible, ensure they discharge waters onto either stabilised or undisturbed disposal sites within the same subcatchment area from which the water originated. Approval might be required to discharge into other subcatchments.

EARTH BANK (HIGH FLOWS)

SD 5-6

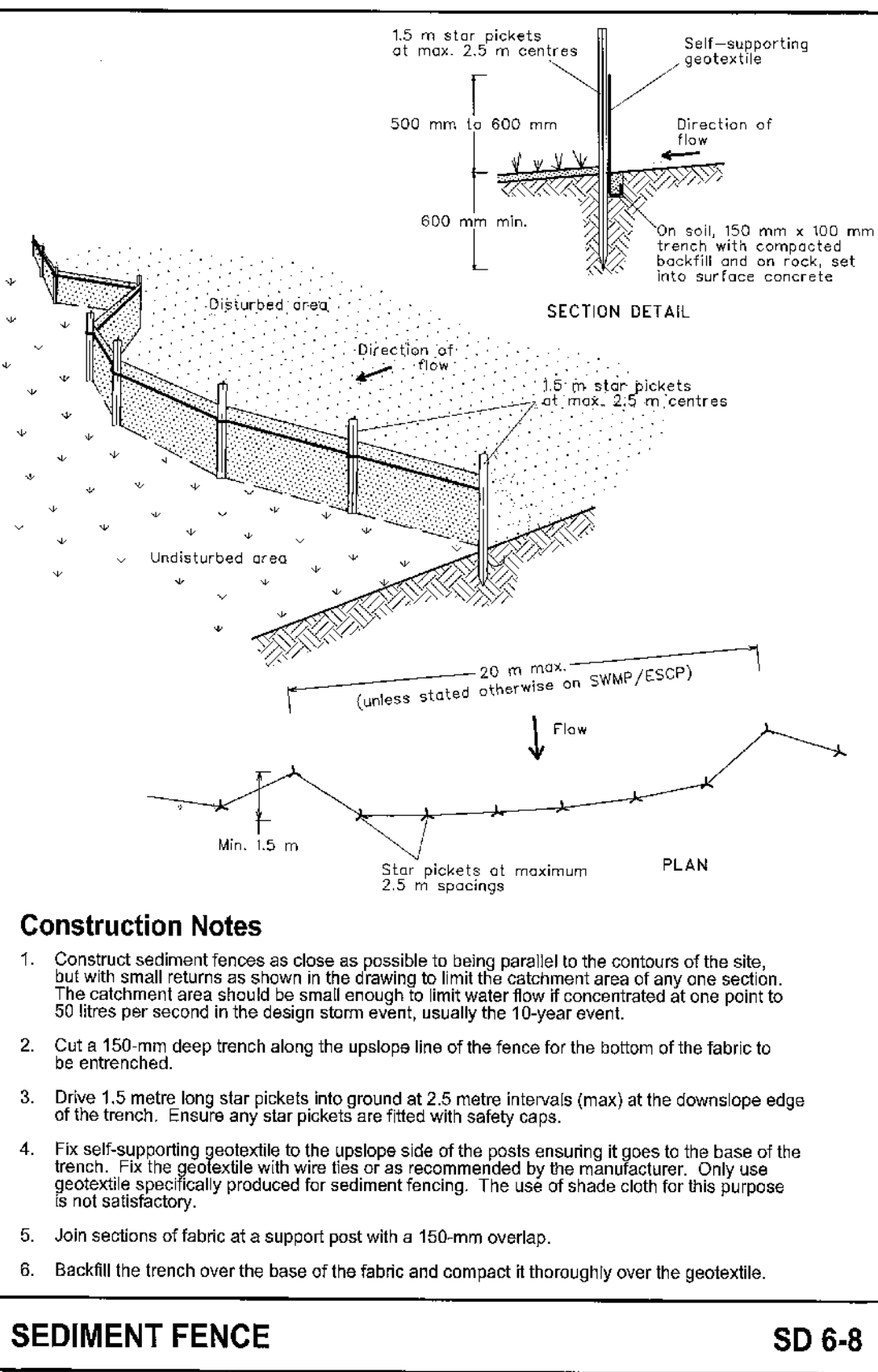


Construction Notes

1. Remove any rocks, clods, sticks or grass from the surface before laying matting
2. Ensure that topsoil is at least 75 mm deep.
3. Complete fertilising and seeding before laying the matting.
4. Ensure fabric will be continuously in contact with the soil by grading the surface carefully first.
5. Lay the fabric in "shingle-fashion", with the end of each upstream roll overlapping those downstream. Ensure each roll is anchored properly at its upslope end (Standard Drawing 5-7b).
6. Ensure that the full width of flow in the channel is covered by the matting up to the design storm event, usually in the 10-year ARI time of concentration storm event.
7. Divert water from the structure until vegetation is stabilised properly.

RECP : CONCENTRATED FLOW

SD 5-7

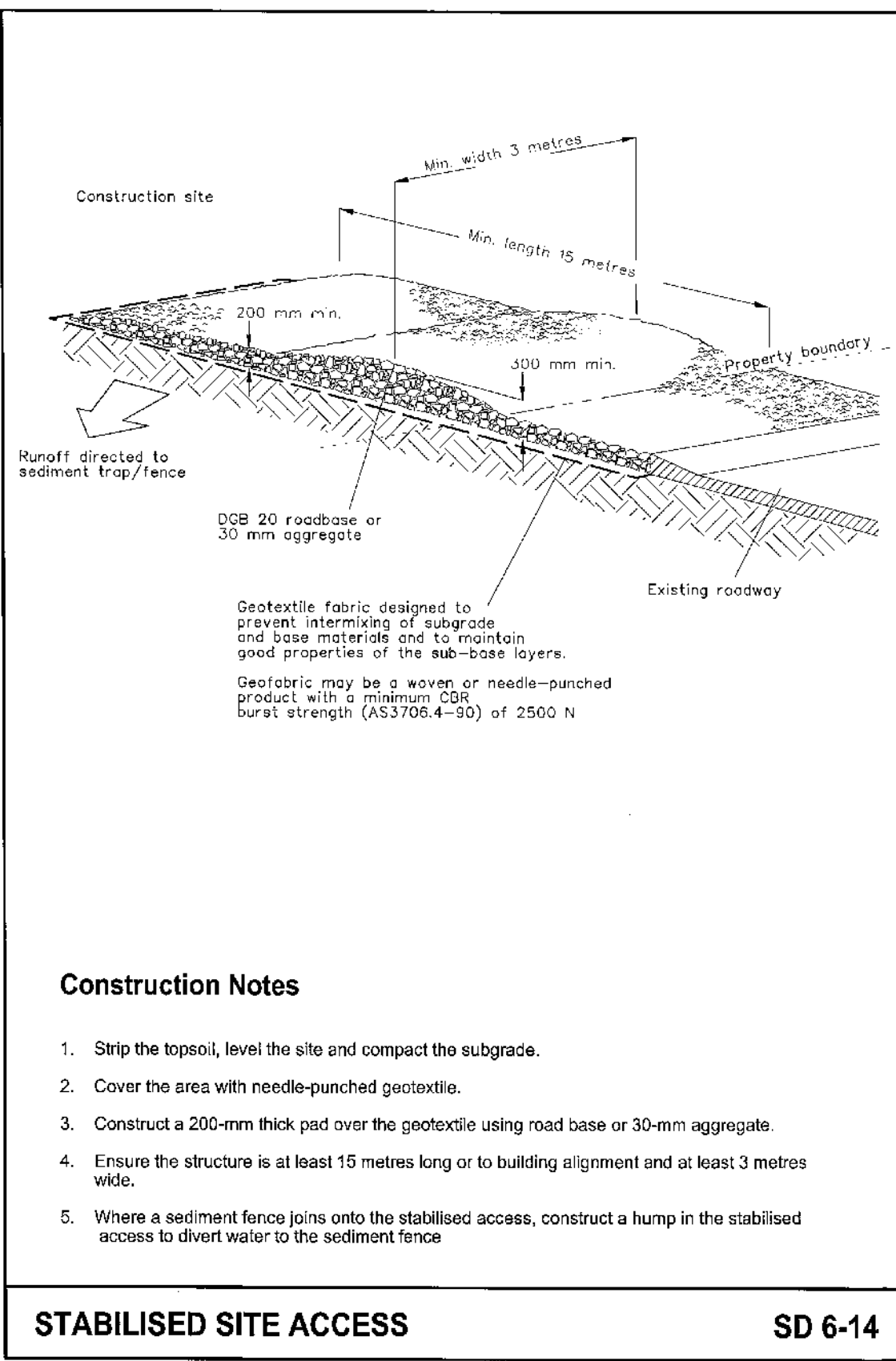


Construction Notes

1. Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
2. Cut a 150 mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
4. Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
5. Join sections of fabric at a support post with a 150-mm overlap.
6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

SD 6-8

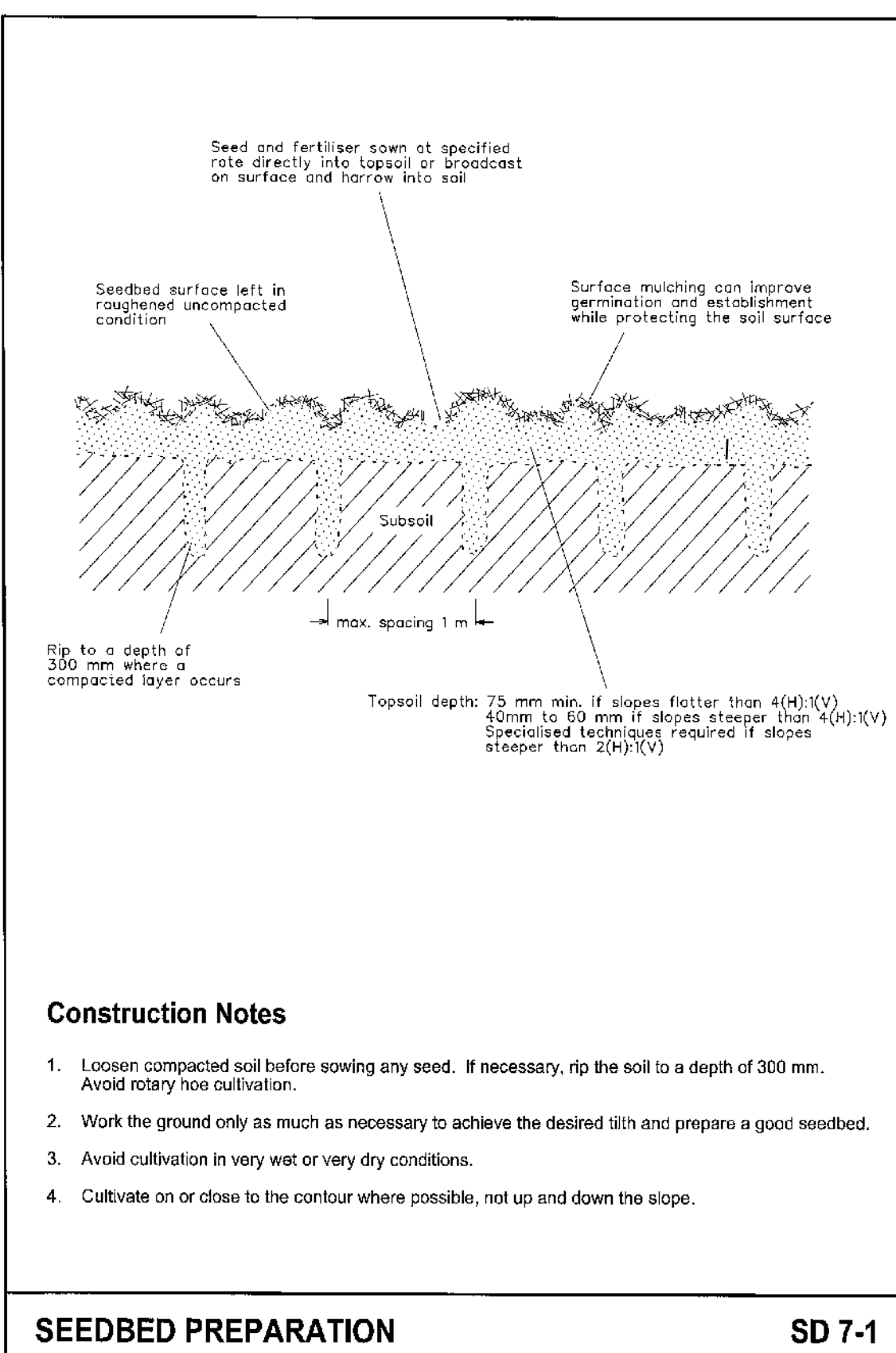


Construction Notes

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence.

STABILISED SITE ACCESS

SD 6-14

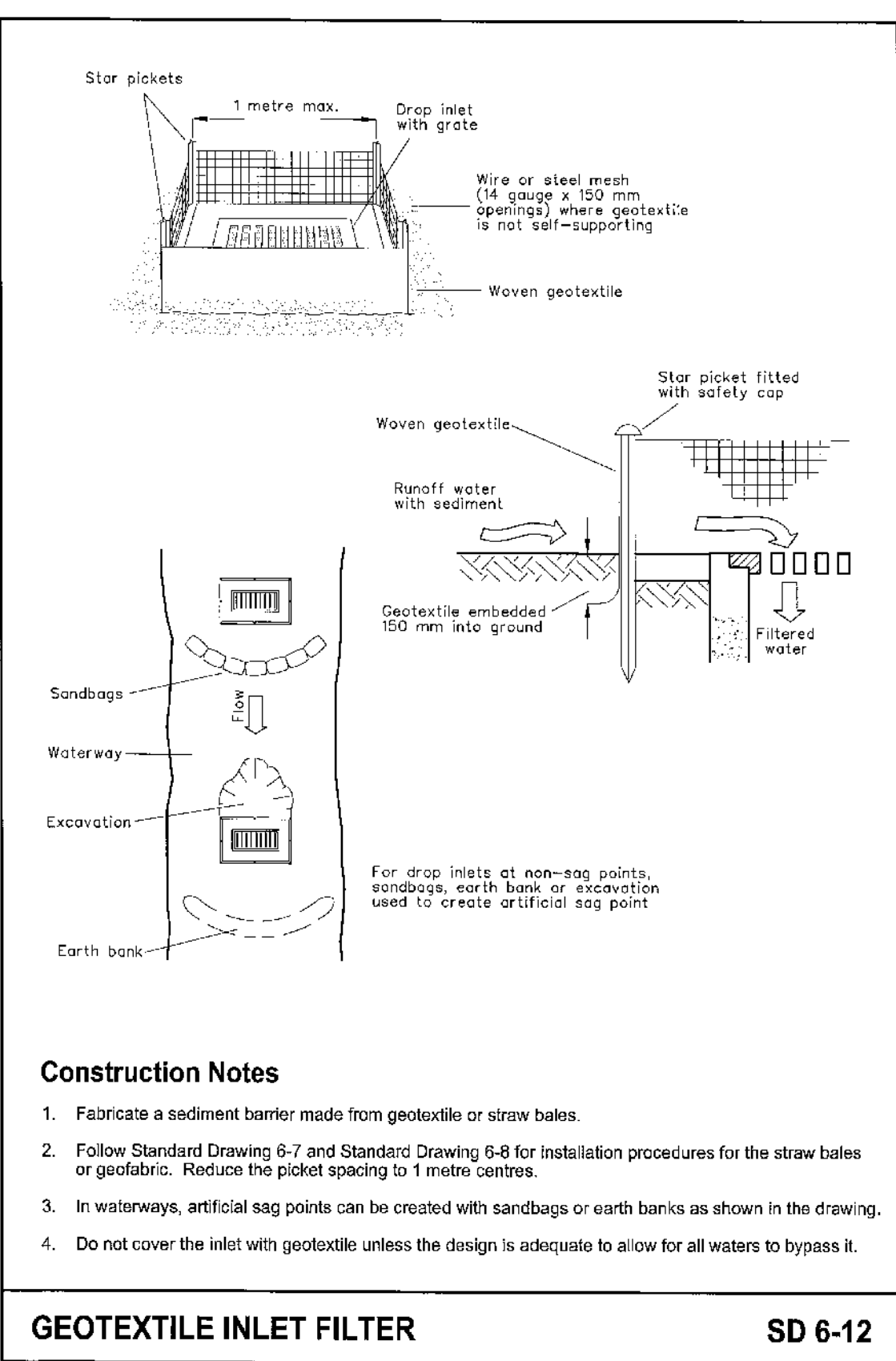


Construction Notes

1. Loosen compacted soil before sowing any seed. If necessary, rip the soil to a depth of 300 mm. Avoid rotary hoe cultivation.
2. Work the ground only as much as necessary to achieve the desired tilth and prepare a good seedbed.
3. Avoid cultivation in very wet or very dry conditions.
4. Cultivate on or close to the contour where possible, not up and down the slope.

SEEDBED PREPARATION

SD 7-1



Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 5-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geotextile. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER

SD 6-12

|       |                                    |            |
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|       |                                    |            |
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|       |                                    |            |
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24   |
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| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-2024 |
| A     | INITIAL SUBMISSION                 | 18-04-2024 |
| Issue | Description                        | Date       |

100mm on Original



Client

**BURTON**  
Civil Engineering Contractors

|                                                                                           |          |    |
|-------------------------------------------------------------------------------------------|----------|----|
| Scales                                                                                    | Drawn    | BC |
| N/A                                                                                       | Designed | BC |
| Grid MGA94 ZONE 56                                                                        | Checked  | BC |
| Height Datum                                                                              | Approved |    |
| AHD                                                                                       |          |    |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |          |    |

|         |                                                                     |
|---------|---------------------------------------------------------------------|
| Project | ACCESS LOGISTIC PARK                                                |
| Title   | EROSION AND SEDIMENT CONTROL<br>PLAN -- STANDRAD DRAWINS - SHEET 20 |

|                                                                                                                                                                                                  |                            |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------|
| OCHRE ENVIRONMETAL MANAGEMENT                                                                                                                                                                    |                            |       |
|  PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407782830<br>www.ochreenvironmental.com.au |                            |       |
| Status                                                                                                                                                                                           | INITIAL SUBMISSION         | F     |
| Project No. - Drawing No.                                                                                                                                                                        | P104_ALTIS_SSD17647189-ESC | Issue |
|                                                                                                                                                                                                  |                            | 1     |



|                                 |                | Type B<br>Basin AB1 | Type B<br>Basin AB2 | Type B<br>Basin AB3 |
|---------------------------------|----------------|---------------------|---------------------|---------------------|
| Basin Specifications            |                |                     |                     |                     |
| Item                            | Unit           |                     |                     |                     |
| Design volume requirement       | m <sup>3</sup> | 954.4               | 2668                | 1567.2              |
| Design surface area requirement | m <sup>2</sup> | 1080                | 3436                | 2404                |
| Length                          | m              | 57                  | 102                 | 85.2                |
| Width                           | m              | 19                  | 34                  | 28.4                |
| Surface area                    | m <sup>2</sup> | 1083                | 3468                | 2419.68             |
| Length to width ratio           | ratio          | 3:1                 | 3:1                 | 3:1                 |
| Depth                           | m              | 1                   | 1                   | 1.2                 |
| Basin wall batter slope         | ratio          | 2:1                 | 2:1                 | 2:1                 |
| X-section area                  | m <sup>2</sup> | 17                  | 38                  | 26.4                |
| Basin volume                    | m <sup>3</sup> | 969                 | 3868                | 2249.28             |
| Forebay (10% of volume)         | m <sup>3</sup> | 96.9                | 387                 | 224.928             |
| Forebay length                  | m              | 7                   | 13                  | 10                  |
| Forebay width                   | m              | 19                  | 34                  | 28.4                |
| Forebay depth                   | m              | 1.0                 | 1.00                | 1.0                 |
| Forebay spillway basin slope    | ratio          | 3:1                 | 3:1                 | 3:1                 |
| X-section area                  | m <sup>2</sup> | 17                  | 32                  | 26.4                |
| Forebay volume                  | m <sup>3</sup> | 119                 | 416                 | 264                 |
| Spillway crest below basin wall | m              | 0.45                | 0.45                | 0.45                |
| Spillway width                  | m              | 17                  | 32                  | 23                  |
| Spillway freeboard              | m              | 0.3                 | 0.3                 | 0.3                 |
| Basin lining                    | ea             | A29 bidim           | A29 bidim           | A29 bidim           |
| Spillway lining                 | ea             | rip rap             | rip rap             | rip rap             |
| Inlet, concrete culvert         | dia            | >450                | >450                | >450                |

## 2. Sediment Basin Type B

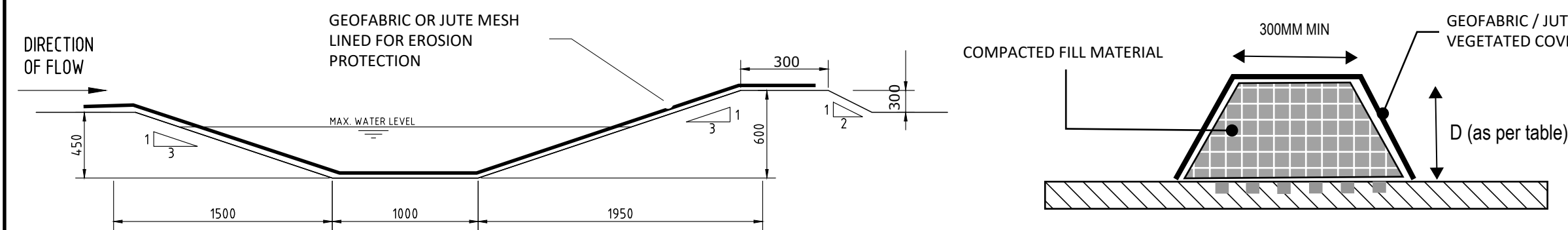
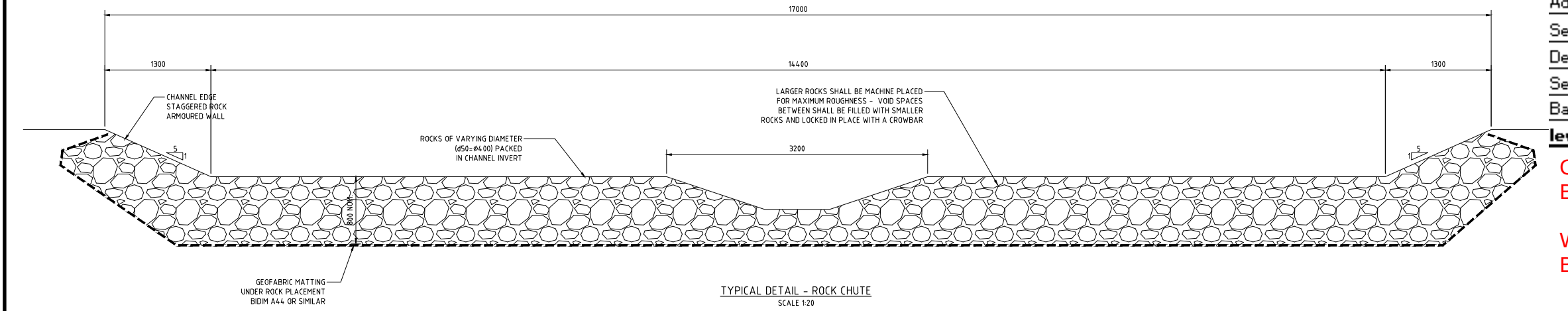
| Basin Name                                         | Sub-catchment or Name of Structure                                |                         |                         |  | Notes                                                                                                                           |
|----------------------------------------------------|-------------------------------------------------------------------|-------------------------|-------------------------|--|---------------------------------------------------------------------------------------------------------------------------------|
|                                                    | AB1                                                               | AB2                     | AB3                     |  |                                                                                                                                 |
| Catchment Area (ha)                                | 3.13                                                              | 13.27                   | 8.53                    |  | Must be same as site area on Worksheet 1                                                                                        |
| Peak Flow Calculation                              | Q = C x I x A / 360                                               |                         |                         |  | Total catchment area - autofilled from Worksheet 1                                                                              |
| Peak 1 year flow - Q1 (m <sup>3</sup> /s)          | 0.270                                                             | 0.853                   | 0.601                   |  | Peak Q1 flow                                                                                                                    |
| 0.5 x Q1 flow (m <sup>3</sup> /s)                  | 0.135                                                             | 0.430                   | 0.301                   |  | Half Q1 flow                                                                                                                    |
| Settling Zone Dimensions                           |                                                                   |                         |                         |  |                                                                                                                                 |
| Length to width ratio X: 1                         | 3                                                                 | 3                       | 3                       |  | 3:1 recommended                                                                                                                 |
| Batter slope (1 in X)                              | 2                                                                 | 2                       | 2                       |  | 1V:5H                                                                                                                           |
| Option 1B                                          | Calculates minimum settling pond surface area (As) and depth (Ds) |                         |                         |  |                                                                                                                                 |
| (mm)                                               | 150                                                               | 150                     | 150                     |  | 2018)                                                                                                                           |
| Sediment settlement coeff. - Ks (s/m)              | 8000                                                              | 8000                    | 8000                    |  | Refer Table B17, page B.26 (IECA, 2018)                                                                                         |
| Minimum surface area - As (m <sup>2</sup> )        | 1080.0                                                            | 3436.0                  | 2404.0                  |  | B19                                                                                                                             |
| Minimum settling depth - Ds (m)                    | 0.68                                                              | 0.68                    | 0.68                    |  | Refer to Table B17, page B.26 (IECA, 2018)                                                                                      |
| Critical settling zone length - L <sub>c</sub> (m) | 81                                                                | 81                      | 81                      |  | Refer to Table B17, page B.26 (IECA, 2018)                                                                                      |
| Approx. width of basin - Ws (m)                    | 19.0                                                              | 33.8                    | 28.3                    |  | Average only - confirm with earthworks design software                                                                          |
| Approx. length of basin (m)                        | 56.3                                                              | 101.5                   | 84.9                    |  | Average only - confirm with earthworks design software                                                                          |
| Check Ls is less than critical                     | OK                                                                | Basin. Use method below | Basin. Use method below |  | Supernatant velocity will not resuspend settled sediment if basin length is less than Ls. Use Large Basin design if length < Ls |
| Large Basin Design - 1B                            |                                                                   |                         |                         |  |                                                                                                                                 |
| Large basin - Ds (m)                               |                                                                   | 1.2                     | 1.2                     |  | The depth Ls or width Ws must be increased to limit the supernatant velocity for large basins. Refer Equation B.22 (IECA)       |
| Large basin width - Ws (m)                         |                                                                   | 23.87                   | 16.70                   |  |                                                                                                                                 |
| Large basin length (m)                             |                                                                   | 71.62                   | 50.11                   |  | Assumes 3:1 length to width ratio                                                                                               |
| Sediment Storage Zone (SS)                         |                                                                   |                         |                         |  |                                                                                                                                 |
| Soil loss (t/ha/yr)                                | 85.3                                                              | 85.3                    | 85.3                    |  | Calculated on worksheet 1                                                                                                       |
| Sediment density (t / m <sup>3</sup> )             | 1.3                                                               | 1.3                     | 1.3                     |  | Generally saturated sediment has a density of 1.3 t / m <sup>3</sup>                                                            |
| Soil loss (m <sup>3</sup> /ha/yr)                  | 65.6                                                              | 65.6                    | 65.6                    |  | Based on sediment density above                                                                                                 |
| Put an X here for 30% of water zone                | x                                                                 | x                       | x                       |  | Fill in one or the other - either an X or nominate the number of months. Refer to Page B.40 (IECA, 2018)                        |
| Storage (soil) zone design (months)                |                                                                   |                         |                         |  |                                                                                                                                 |
| Basin storage (soil) volume (m <sup>3</sup> )      | 220.0                                                             | 616.0                   | 301.0                   |  | Refer to Page B.40 (IECA, 2018)                                                                                                 |
| Summary of Type B Basin Dimensions                 |                                                                   |                         |                         |  |                                                                                                                                 |
| Basin Name                                         | AB1                                                               | AB2                     | AB3                     |  |                                                                                                                                 |
| Adopted basin type                                 | Option 1B                                                         | Option 1B - Large       | Option 1B - Large       |  |                                                                                                                                 |
| Settling zone surface area - As (m <sup>2</sup> )  | 1080.0                                                            | 1709.8                  | 836.9                   |  |                                                                                                                                 |
| Depth of settling zone - Ds (m)                    | 0.7                                                               | 1.2                     | 1.20                    |  |                                                                                                                                 |
| Settling zone volume - Vs (m <sup>3</sup> )        | 734.4                                                             | 2051.7                  | 1004.3                  |  |                                                                                                                                 |
| Basin storage (soil) volume (m <sup>3</sup> )      | 220.0                                                             | 616.0                   | 301.0                   |  | 30% of V <sub>SS</sub> or x months storage. See pg B.40 (IECA, 2018)                                                            |
| level (m <sup>+</sup> )                            | 954.4                                                             | 2667.7                  | 1305.3                  |  |                                                                                                                                 |

### ON LOT BASIN SIZING

| Basin Name                                        | Lot 2     | Lot 5     | Lot 6     | Lot 7     | Lot 8     | Lot 9     | Lot 10    | Lot 11    | Lot 12    |
|---------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Adopted basin type                                | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B |
| Settling zone surface area - As (m <sup>2</sup> ) | 1888.0    | 248.0     | 248.0     | 364.0     | 260.0     | 260.0     | 476.0     | 1060.0    | 344.0     |
| Depth of settling zone - Ds (m)                   | 0.7       | 0.7       | 0.68      | 0.68      | 0.68      | 0.68      | 0.7       | 0.7       | 0.68      |
| Settling zone volume - Vs (m <sup>3</sup> )       | 1283.8    | 168.6     | 168.6     | 247.5     | 176.8     | 176.8     | 323.7     | 720.8     | 233.9     |
| Basin storage (soil) volume (m <sup>3</sup> )     | 385.0     | 51.0      | 51.0      | 74.0      | 53.0      | 53.0      | 97.0      | 216.0     | 70.0      |
| level (m <sup>+</sup> )                           | 1668.8    | 219.6     | 219.6     | 321.5     | 223.8     | 223.8     | 420.7     | 936.8     | 303.9     |

ON LOT BASINS ARE TO BE IMPLEMENTED FOR HANDOVER TO THE BUILDER. REVISED ESCP DOCUMENTATION WILL BE DEVELOPED BY THE BUILDER PRIOR TO COMMENCEMENT.

WHERE COMMENCEMENT OF BUILDING IMMEDIATELY FOLLOWS EARTHWORKS, THE ON LOT BASINS MAY BE SUPERCEDED BY THE BUILDERS ESCP REQUIREMENTS AND THEREFORE NOT INSTALLED FOR THAT SPECIFIC LOT.



STANDARD EARTHEN BUND

| DIVERSION CHANNEL REQUIREMENTS (SLOPE=0.5%) |             |            |            |            |          |  |          |
|---------------------------------------------|-------------|------------|------------|------------|----------|--|----------|
| CATCHMENT                                   | DESIGN FLOW | MANNINGS N | BASE WIDTH | FLOW DEPTH | FREEBORD |  | VELOCITY |
| Ha                                          | %           | NA         | m          | m          | m        |  | m/s      |
| 0.5                                         | 0.127       | 0.04       | 0.30       | 0.30       | 0.10     |  | 0.56     |
| 1                                           | 0.254       | 0.04       | 0.60       | 0.30       | 0.10     |  | 0.56     |
| 1.5                                         | 0.381       | 0.04       | 0.75       | 0.35       | 0.15     |  | 0.63     |
| 2                                           | 0.508       | 0.04       | 1.20       | 0.35       | 0.15     |  | 0.67     |
| 2.5                                         | 0.635       | 0.04       | 1.20       | 0.40       | 0.20     |  | 0.72     |
| 3                                           | 0.762       | 0.04       | 1.50       | 0.40       | 0.20     |  | 0.74     |
| 3.5                                         | 0.889       | 0.04       | 1.50       | 0.45       | 0.25     |  | 0.78     |
| 4                                           | 1.016       | 0.04       | 1.50       | 0.50       | 0.25     |  | 0.83     |
| UP TO 7.5                                   | 1.143       | 0.04       | 1.50       | 0.50       | 0.25     |  | 0.83     |

| DIVERSION CHANNEL REQUIREMENTS (SLOPE=2.5%) |             |            |            |            |          |  |          |
|---------------------------------------------|-------------|------------|------------|------------|----------|--|----------|
| CATCHMENT                                   | DESIGN FLOW | MANNINGS N | BASE WIDTH | FLOW DEPTH | FREEBORD |  | VELOCITY |
| Ha                                          | %           | NA         | m          | m          | m        |  | m/s      |
| 0.5                                         | 0.127       | 0.04       | 0.30       | 0.20       | 0.10     |  | 0.50     |
| 1                                           | 0.254       | 0.04       | 0.60       | 0.20       | 0.10     |  | 1.00     |
| 1.5                                         | 0.381       | 0.04       | 0.90       | 0.25       | 0.15     |  | 1.10     |
| 2                                           | 0.508       | 0.04       | 1.20       | 0.25       | 0.15     |  | 1.20     |
| 2.5                                         | 0.635       | 0.04       | 1.50       | 0.30       | 0.20     |  | 1.40     |
| 3                                           | 0.762       | 0.04       | 1.50       | 0.30       | 0.20     |  | 1.40     |
| 3.5                                         | 0.889       | 0.04       | 1.50       | 0.30       | 0.25     |  | 1.40     |
| 4                                           | 1.016       | 0.04       | 1.50       | 0.35       | 0.25     |  | 1.50     |
| UP TO 7.5                                   | 1.143       | 0.04       | 1.50       | 0.35       | 0.25     |  | 1.50     |

DIVERSION DRAIN SIZING ADOPTED FROM COSTIN ROE DRAWINGS C014021.00

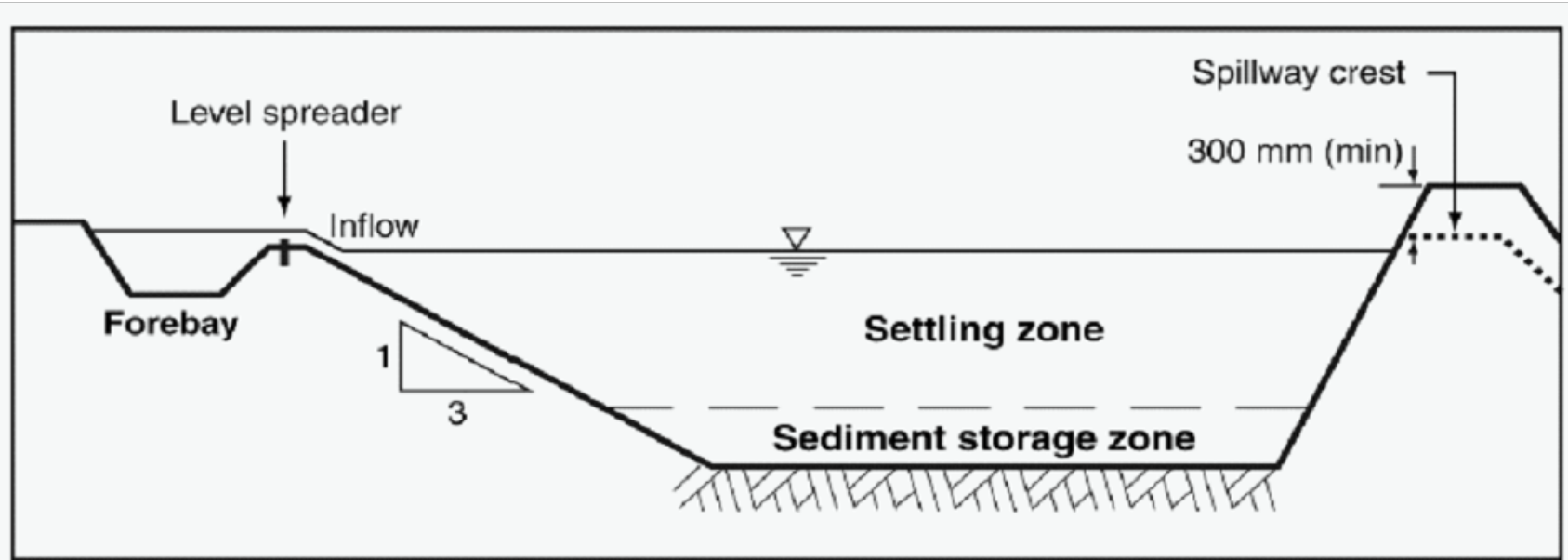


Figure B7 – Long-section of a typical Type B basin

| Issue | Description                        | Date       |
|-------|------------------------------------|------------|
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24   |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24   |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24   |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24   |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-2024 |
| A     | INITIAL SUBMISSION                 | 18-04-2024 |



Client

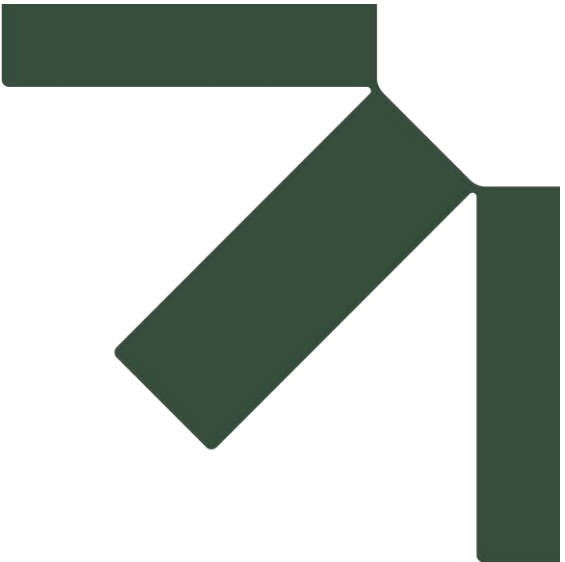


|                                                                                           |               |          |    |
|-------------------------------------------------------------------------------------------|---------------|----------|----|
| Scales                                                                                    | N/A           | Drawn    | BC |
|                                                                                           |               | Designed | BC |
| Grid                                                                                      | MGA94 ZONE 56 | Checked  | BC |
| Height Datum                                                                              | AHD           | Approved |    |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |               |          |    |

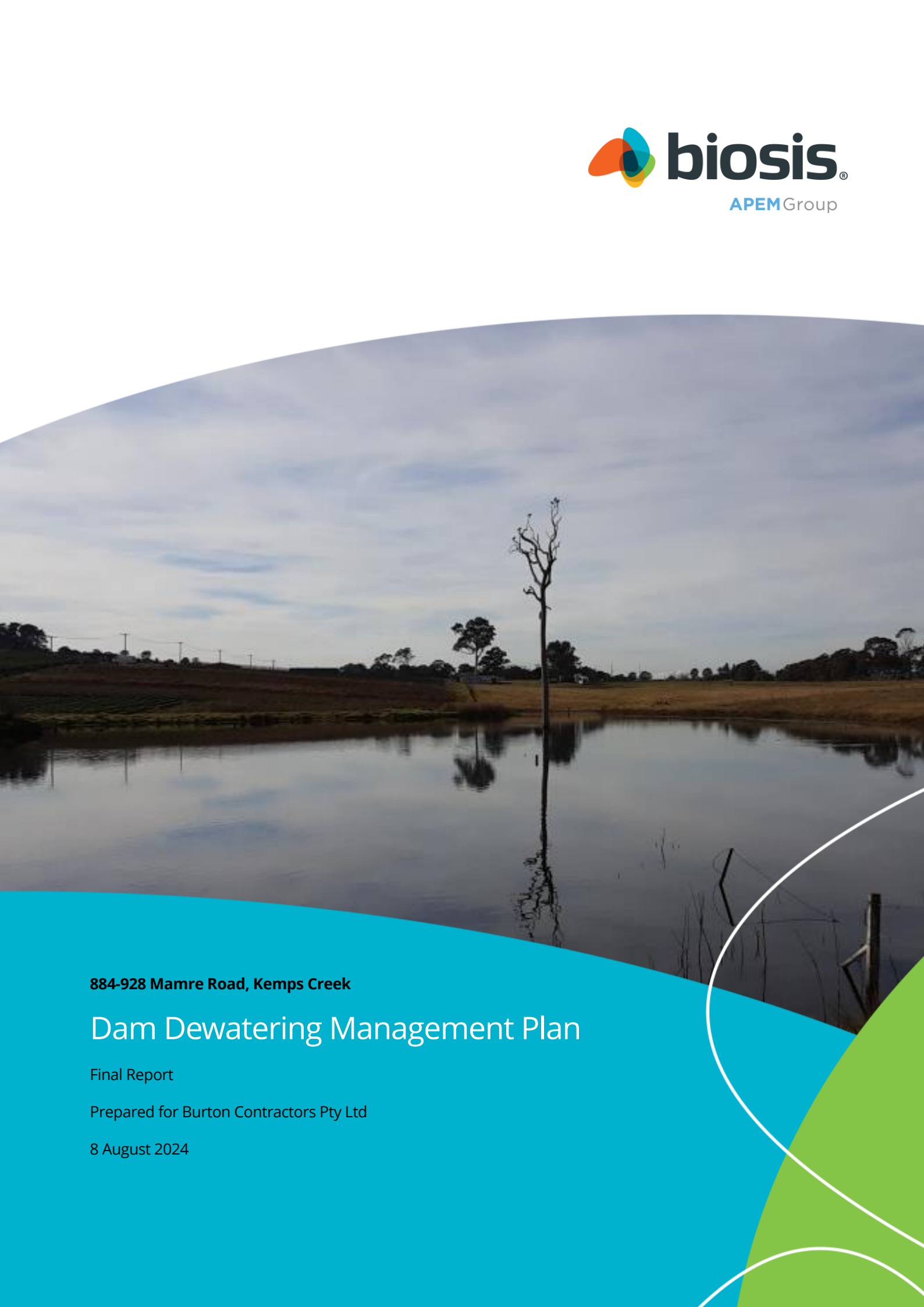
|         |                                                               |
|---------|---------------------------------------------------------------|
| Project | ACCESS LOGISTIC PARK                                          |
| Title   | EROSION AND SEDIMENT CONTROL PLAN – DESIGN DEATAIL - SHEET 21 |

|                                                                                                                                                                                                     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| OCHRE ENVIRONMETAL MANAGEMENT                                                                                                                                                                       |       |
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| Status                                                                                                                                                                                              | F     |
| Project No. - Drawing No.                                                                                                                                                                           | Issue |
| P104_ALTIS_SSD17647189-ESC                                                                                                                                                                          | 1     |





# **Appendix E      Dam Dewatering Management Plan**



884-928 Mamre Road, Kemps Creek

# Dam Dewatering Management Plan

Final Report

Prepared for Burton Contractors Pty Ltd

8 August 2024

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| <b>Biosis project no.:</b> | 35800/40491                                                                                                                                                                                   |
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- Astrid Mackegard and Henri Liswoyo (mapping).

*Biosis acknowledges the Aboriginal and Torres Strait Islander peoples as Traditional Custodians of the land on which we live and work.*

*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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## Glossary

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| BC Act          | <i>Biodiversity Conservation Act 2016</i>                                               |
| Biosecurity Act | <i>Biosecurity Act 2015</i>                                                             |
| CBD             | Central Business District                                                               |
| CEMP            | Construction Environmental Management Plan                                              |
| CESR            | Contractors Environmental Site Representative                                           |
| Cth DCCEEW      | Australian Commonwealth Department of Climate Change, Energy, the Environment and Water |
| CPESC           | Certified Professional in Erosion and Sediment Control                                  |
| DCP             | Development Control Plan                                                                |
| DPI             | Department of Primary Industries                                                        |
| EIS             | Environmental Impact Statement                                                          |
| EP&A Act        | <i>Environmental Planning and Assessment Act 1979</i>                                   |
| EPBC Act        | <i>Environmental Protection and Biodiversity Conservation Act 1999</i>                  |
| FM Act          | <i>Fisheries Management Act 1994</i>                                                    |
| GIS             | Geographic Information System                                                           |
| IBRA            | Interim Biogeographic Regionalisation for Australia                                     |
| LGA             | Local Government Area                                                                   |
| LLS             | Local Land Services                                                                     |
| NSW             | New South Wales                                                                         |
| NSW DCCEEW      | NSW Department of Climate Change, Energy, the Environment and Water                     |
| NTU             | Nephelometric Turbidity unit                                                            |
| study area      | 884-902 and 904-928 Mamre Road (Lot 52 and Lot 53 DP259135), Kemps Creek in NSW         |
| TSS             | Total Suspended Solids                                                                  |
| VMP             | Vegetation Management Plan                                                              |

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# 1 Introduction

---

## 1.1 Project background

Biosis Pty Ltd was commissioned by Burton Civil Contractors Pty Ltd (Burton) to provide a Dam Dewatering Management Plan for 884-902 and 904-928 Mamre Road (Lot 52 and Lot 53 DP259135), Kemps Creek (the study area) in New South Wales (NSW) (Figure 1).

Burton is proposing to develop a 15 Lot Torrens Title staged subdivision (the project) of the 20.61 hectare study area. The project (SSD-17647189) was assessed as part of an Environmental Impact Statement (EIS) (Willowtree Planning 2021), under Part 4 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act), with the Minister for NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEEW, formerly Department of Planning and Environment, DPE) as the approval authority.

On 17 August 2022, biodiversity certification based on *The Cumberland Plain Conservation Plan* (CPCP) (DPE 2022a) was conferred under Section 8.2 of the *Biodiversity Conservation Act 2016* (BC Act), with strategic biodiversity certified land within the study area (Lots 52 and 53 DP259135) specified as 'Certified – Urban Capable Land' (NSW Government Gazette 2022) in accordance with the CPCP (DPE 2022a, DPE 2022b) and as such as biodiversity certification letter of advice was prepared for the development on Lot 52 and Lot 53 DP259135 (Biosis 2022a).

## 1.2 Location of the study area

This Dam Dewatering Management Plan applies to the study area (Figure 1) which is defined as Lot 52 and Lot 53 DP259135. The study area is approximately 20.61 hectares and is located directly north of Mamre Road between Kemps Creek and St Clair, approximately 49 kilometres west of the Sydney Central Business District (CBD).

The study area is within the:

- Sydney Basin Interim Biogeographic Regionalisation for Australia (IBRA) bioregion and the Cumberland IBRA subregion.
- Hawkesbury Catchment Management Area.
- Greater Sydney Local Land Services (LLS) region.
- Penrith City Council local government area (LGA).
- Mamre Road Precinct 12 (Mamre Road).
- Land zoned as IN1 General Industrial and SP2 Infrastructure under the provisions of State Environmental Planning Policy (Industry and Employment) 2009 (Industry and Employment SEPP), incorporating Chapter 2 Western Sydney Employment Area.
- Certified – Urban Capable Land under CPCP (DPE 2022a, DPE 2022b).

## 1.3 Scope

The field assessment did not identify any ecological issues of concern in relation to the dewatering of dams within the study area. It is recommended that a dam dewatering and salvage process be implemented as a precautionary measure for the minimisation of any impacts to resident native aquatic fauna species. Under

this procedure, resident native aquatic fauna species are relocated to adjacent waterways outside the areas of impact during the dam dewatering process. The Dam Dewatering Management Plan outlines how impacts to biodiversity will be mitigated and guide the fauna salvage process during dam dewatering.

## 1.4 Relevant legislation and guidelines

The following legislation and guidelines that have been used to assist in the formulation of this document:

- *Environmental Planning and Assessment Act 1979* (EP&A Act).
- *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).
- *Biodiversity Conservation Act 2016* (BC Act).
- *Biosecurity Act 2015* (Biosecurity Act).
- *Fisheries Management Act 1994* (FM Act).

We understand that development approval (SSD-17647189) was awarded on 18 December 2023 for the project, including associated conditions of consent. Conditions of consent relevant to biodiversity are defined in Table 1 below. This Dam Dewatering Management Plan has been updated to address the conditions of consent.

**Table 1** Conditions of consent (SSD-17647189) relevant to the plan

| Condition reference                | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                             | Biosis recommendations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WATER QUALITY AND HYDROLOGY</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Dam Decommissioning Plan</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>B34.</b>                        | <i>Prior to commencement of earthworks the Applicant must prepare a Dam Decommissioning Plan, addressing the Guidelines for Controlled Activities on Waterfront Land, to the satisfaction of the Planning Secretary. The Dam Decommissioning Plan must form part of the Construction Environmental Management Plan (CEMP) required by Condition C2. The Applicant must implement the Dam Decommissioning Plan approved by the Planning Secretary.</i> | <p>The Dam Decommissioning Plan (referenced herein as a Dam Dewatering Management Plan) has been prepared as a recommendation of 884-928 Mamre Road, Kemps Creek Biodiversity Development Assessment Report (Biosis 2023) (BDAR). This plan has also been prepared as required by the conditions of the Development Consent. The development is SSD (SSD-17647189), and it is therefore exempt from the requirement to obtain a Controlled Activity Approval for activities on or under waterfront land. Therefore, works proposed within the mapped riparian corridor were assessed as part of the EIS (Willowtree Planning 2021).</p> <p>This condition requires that the Dam Dewatering Management Plan addresses Guidelines for Controlled Activities on Waterfront Land, which is a set of interpretation guidelines that provide design considerations and overarching management measures for works on waterfront land. including:</p> <ul style="list-style-type: none"> <li>• <i>Controlled activities – Guidelines for Riparian Corridors on Waterfront Land</i> (DPE 2022c).</li> <li>• <i>Controlled Activities - Guidelines for Instream Works on Waterfront Land</i> (DPE 2022d).</li> <li>• <i>Controlled Activities - Guidelines for Laying Pipes and Cables in Watercourses on Waterfront Land</i> (DPE 2022e).</li> <li>• <i>Controlled Activities - Guidelines for Outlet Structures on Waterfront Land</i> (DPE 2022f).</li> </ul> |

| Condition reference                 | Condition                                                               | Biosis recommendations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     |                                                                         | <ul style="list-style-type: none"> <li>Controlled Activities - Guidelines for Watercourse Crossings on Waterfront Land (DPE 2022g).</li> <li>Controlled activities - Guidelines for Vegetation Management Plans on Waterfront Land (DPE 2022h).</li> </ul> <p>Dam A and Dam B are not located on a mapped waterway and therefore the Guidelines for Controlled Activities on Waterfront Land does not apply to Dam A or Dam B.</p> <p>Dam C is situated on a mapped waterway. The waterway applying to Dam C was assessed as part of the BDAR (Biosis 2023) and Waterways Assessment (Biosis 2022b). Detail is provided in Table 5 below. Department of Primary Industries (DPI) Water recommends riparian widths based on watercourse order under the Strahler method in order to protect waterways from damage such as erosion (Strahler 1964). The watercourse associated with Dam C is classified as a Strahler One order stream, which would ordinarily require a riparian corridor width of 10 metres from the 'top of bank' on either side, respectively (DPE 2022c). However, the mapped waterway is heavily modified and not consistent with the description of waterfront land or a vegetated riparian zone. Dam C will be dewatered and infilled as part of the development and no riparian corridor is present for retention and management. Works will be undertaken within the riparian corridor as a result, including; the installation of stormwater and subsoil lines, outlet structures that will release clean and treated water into the neighbouring construction site and existing drainage network, construction of a spillway/ swale and vegetation of the infill.</p> <p>Of the above guidelines, <i>Controlled Activities - Guidelines for Watercourse Crossings on Waterfront Land</i> (DPE 2022g) is not relevant to the project, as no watercourse crossings are proposed in relation to dams.</p> <p><i>Controlled activities - Guidelines for Vegetation Management Plans on Waterfront Land</i> (DPE 2022h) is relevant to the project. This guideline states that all waterfront land disturbed by the project construction should be rehabilitated in such a way that the integrity of the watercourse and its riparian corridor is restored or rehabilitated. While the waterway associated with Dam C is not considered waterfront land, a Vegetation Management Plan (VMP) should be prepared for the project, as required by the condition of consent, to mitigate impacts.</p> <p>As the Dam Dewatering Management Plan does not contain dams that are consistent with waterfront land, it has not been prepared in accordance with the remaining Guidelines for Controlled Activities on Waterfront Land. The guidelines do not reference specific requirements for dam dewatering/ decommissioning.</p> |
| <b>ENVIRONMENTAL MANAGEMENT</b>     |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Management Plan Requirements</b> |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>C1.</b>                          | <i>Management plans required under this consent must be prepared in</i> | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

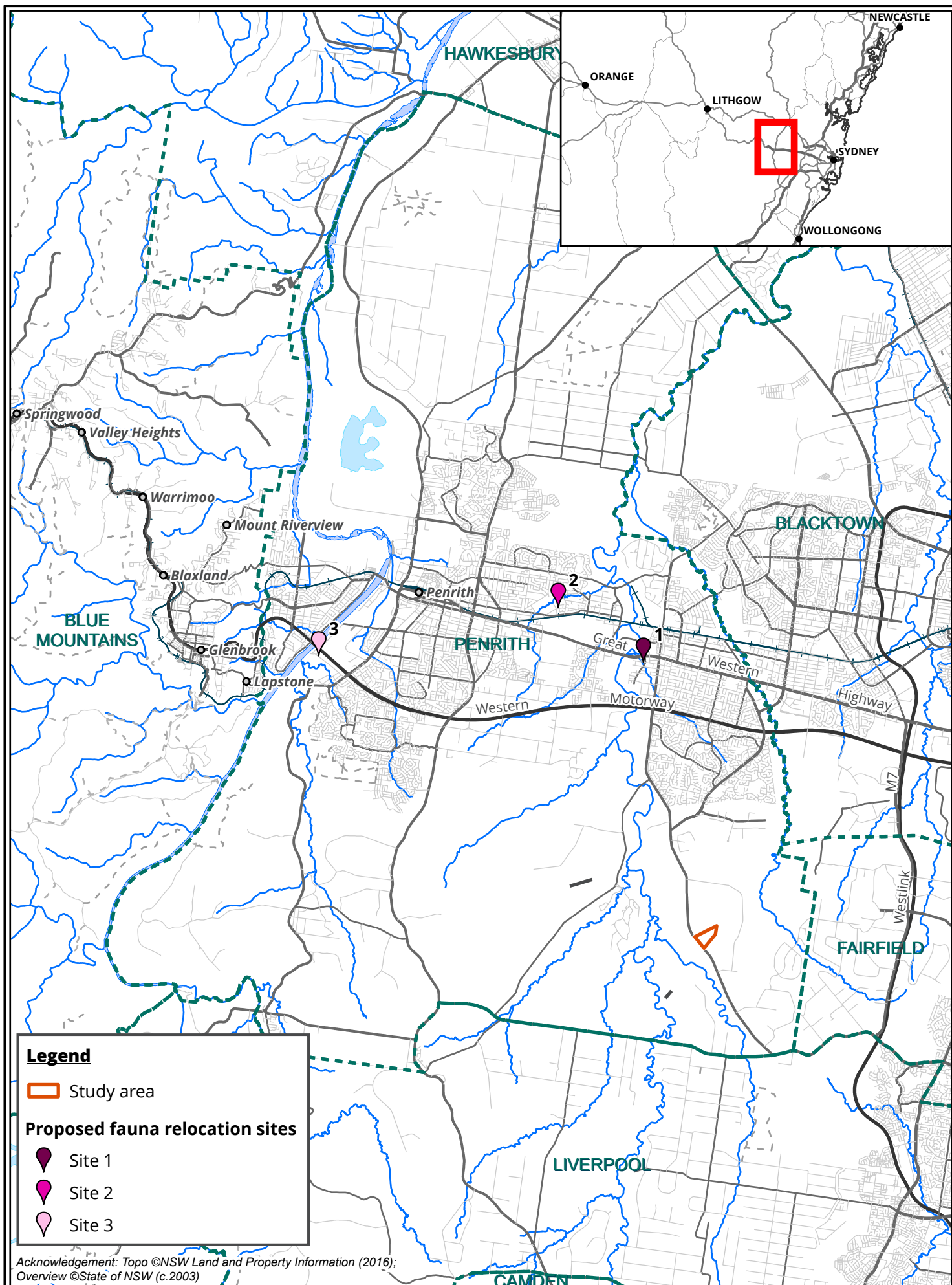


| Condition reference | Condition                                                                                                                                                                                                                                           | Biosis recommendations                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <i>accordance with relevant guidelines, and include:</i>                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>C1.a)</b>        | <ul style="list-style-type: none"> <li>Detailed baseline data;</li> </ul>                                                                                                                                                                           | Baseline data is provided in Section 3 and Figure 2.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>C1.b)</b>        | <ul style="list-style-type: none"> <li>Details of:</li> </ul>                                                                                                                                                                                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>C1.b)i)</b>      | <ul style="list-style-type: none"> <li>The relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> </ul>                                                                                               | Statutory requirements considered as part of plan preparation are described in Section 1.4 above. A detailed assessment of legislative considerations for the project from a biodiversity perspective are provided in the BDAR (Biosis 2023).                                                                                                                                                                                       |
| <b>C1.b)ii)</b>     | <ul style="list-style-type: none"> <li>Any relevant limits or performance measures and criteria; and</li> </ul>                                                                                                                                     | Ongoing monitoring and performance has not been included in the current plan. Reporting on the dewatering and salvage process has been recommended in Section 4.5.                                                                                                                                                                                                                                                                  |
| <b>C1.b)iii)</b>    | <ul style="list-style-type: none"> <li>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>                         | Ongoing monitoring and performance has not been included in the current plan. Reporting on the dewatering and salvage process has been recommended in Section 4.5.                                                                                                                                                                                                                                                                  |
| <b>C1.c)</b>        | <ul style="list-style-type: none"> <li>A description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;</li> </ul>                                                 | <p>Ongoing monitoring and performance has not been included in the current plan. Reporting on the dewatering and salvage process in line with statutory requirements has been recommended in Section 4.5.</p> <p>Preparation of a VMP is recommended for the mapped waterway associated with Dam C in accordance with <i>Controlled activities - Guidelines for Vegetation Management Plans on Waterfront Land</i> (DPE 2022h).</p> |
| <b>C1.d)</b>        | <ul style="list-style-type: none"> <li>A program to monitor and report on the:</li> </ul>                                                                                                                                                           | Ongoing monitoring and performance has not been included in the current plan. Reporting on the dewatering and salvage process has been recommended in Section 4.5.                                                                                                                                                                                                                                                                  |
| <b>C1.d)i)</b>      | <ul style="list-style-type: none"> <li>Impacts and environmental performance of the development; and</li> </ul>                                                                                                                                     | See above.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>C1.d)ii)</b>     | <ul style="list-style-type: none"> <li>Effectiveness of the management measures set out pursuant to paragraph (c) above;</li> </ul>                                                                                                                 | See above.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>C1.e)</b>        | <ul style="list-style-type: none"> <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> | Ongoing monitoring and performance has not been included in the current plan. Reporting on the dewatering and salvage process has been recommended in Section 4.5.                                                                                                                                                                                                                                                                  |
| <b>C1.f)</b>        | <ul style="list-style-type: none"> <li>A program to investigate and implement ways to improve the environmental performance of the development over time;</li> </ul>                                                                                | Ongoing monitoring and performance has not been included in the current plan. Reporting on the dewatering and salvage process has been recommended in Section 4.5.                                                                                                                                                                                                                                                                  |

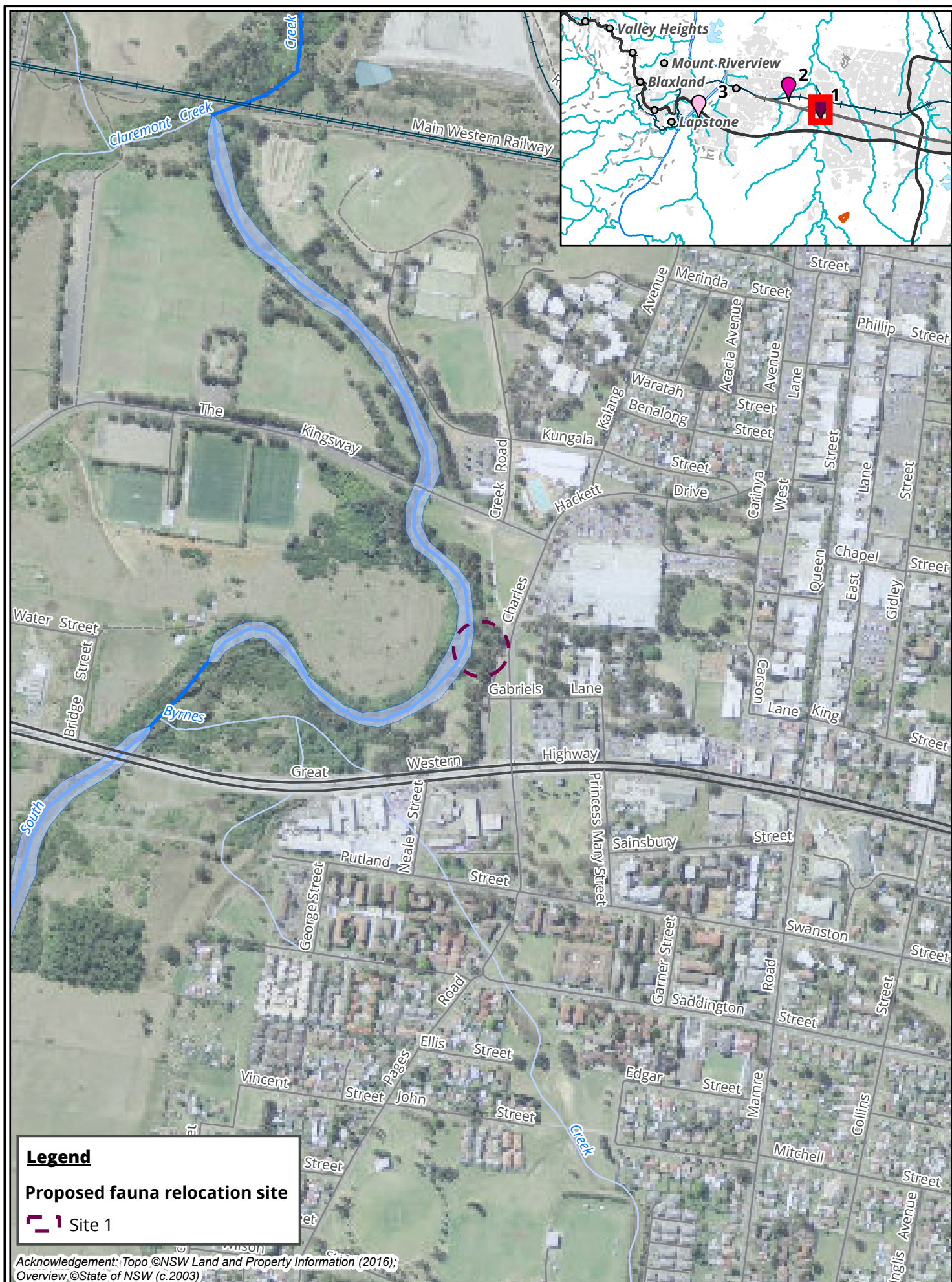
| Condition reference | Condition                                                                                                                                                                             | Biosis recommendations                                                                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C1.g)</b>        | <ul style="list-style-type: none"> <li>A protocol for managing and reporting any:</li> </ul>                                                                                          | Ongoing monitoring and performance has not been included in the current plan. Reporting on the dewatering and salvage process has been recommended in Section 4.5.                                                                                                                   |
| <b>C1.g)i)</b>      | <ul style="list-style-type: none"> <li>Incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);</li> </ul> | See above.                                                                                                                                                                                                                                                                           |
| <b>C1.g)ii)</b>     | <ul style="list-style-type: none"> <li>Complaint;</li> </ul>                                                                                                                          | See above.                                                                                                                                                                                                                                                                           |
| <b>C1.g)iii)</b>    | <ul style="list-style-type: none"> <li>Failure to comply with statutory requirements; and</li> </ul>                                                                                  | See above.                                                                                                                                                                                                                                                                           |
| <b>C1.h)</b>        | <ul style="list-style-type: none"> <li>A protocol for periodic review of the plan.</li> </ul>                                                                                         | Ongoing monitoring and performance has not been included in the current plan. Reporting on the dewatering and salvage process has been recommended in Section 4.5.                                                                                                                   |
| <b>C1. Cont.</b>    | <i>Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i>                                      | It is Biosis' recommendation that the requirements of Condition C1 are not necessary for the Dam Dewatering Management Plan and that a waiver of this condition would be appropriate. Biosis recommends consulting with The Planning Secretary to seek a wavier of this requirement. |

#### CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

|              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C3.</b>   | <i>As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:</i>                                                                  | -                                                                                                                                                                                                                                                                       |
| <b>C3.c)</b> | <ul style="list-style-type: none"> <li>Dam Decommissioning Plan (see Condition B34);</li> </ul>                                                                                    | The Dam Decommissioning Plan (referenced herein as a Dam Dewatering Management Plan) has been prepared as a recommendation of the BDAR (Biosis 2023) and is provided herein. This plan has also been prepared as required by the conditions of the Development Consent. |
| <b>C4.</b>   | <i>The Applicant must:</i>                                                                                                                                                         | -                                                                                                                                                                                                                                                                       |
| <b>C4.a)</b> | <ul style="list-style-type: none"> <li>Not commence earthworks, dam dewatering or construction of the development until the CEMP is approved by the Planning Secretary.</li> </ul> | This plan has been prepared to support the CEMP to direct the appropriate dewatering for the project.                                                                                                                                                                   |







**Figure 1.2 Location of the study area and relocation sites - South Creek off Charles Hackett Drive**

Matter: 40491, Date: 03 May 2024,  
Prepared for: CH, Prepared by: HL, Last edited by: hlswoyo  
Location: P:\40400s\40491\Mapping\40491\_MamreRdDewatering\_Updates  
Layout: 40491\_DW\_F1\_Locality1

0 100 200 300  
Metres

Scale 1:7,500@ A4, GDA2020 MGA Zone 56











## 2 Method

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### 2.1 Desktop Research

This plan was prepared following a review of all available design plans and reports relating to the site and adjacent areas, as well as relevant legislation, recent vegetation mapping and other documentation relevant to the current project, including:

- Subdivision and landscape plans (11894\_DA004[P8] Masterplan).
- Erosion and Sedimentation Package, including Erosion and Sediment Control Plan (ESCP, P104\_ALTIS\_SSD17647189-ESC) (Ochre Environmental Management 2024a), see Appendix 1.
- Post Development Stormwater Catchment Plan (CO14021.05-C422) (Costin Roe Consulting Pty Ltd 2024), see Appendix 2.
- Dam A dewatering assessment (Ochre Environmental Management 2024b), see Appendix 3.
- *Penrith Development Control Plan 2014* (DCP).
- Prior reports relating to the project, including:
  - *Biodiversity Constraints Assessment for 884-904 Mamre Road, Kemps Creek* (Biosis 2019).
  - *884-928 Mamre Road, Kemps Creek Biodiversity Development Assessment Report* (Biosis 2023).
  - *Environmental Impact Statement Access Logistics Park – Proposed Warehouse and Logistics Hub SSD-17647189 - 884-928 Mamre Road, Kemps Creek (Lots 52-53 DP259135)* (Willowtree Planning 2021).

### 2.2 Field assessment

A field assessment was undertaken of the study area on 16 August 2021 by Matthew Hyde (Consultant Zoologist) and Jake Schwebel (Botanist) for the current assessment. The purpose of the field investigation was to establish the current dam conditions and identify any specific management constraints to be considered and options for efficient aquatic fauna salvage methods. The field assessment tasks included:

- A visual inspection of each dam and collection of photographic records.
- Determine dam water levels and habitat conditions.
- Undertake identification and assessment of any indicators of occupation by native aquatic biota.
- Undertake identification of any aquatic priority weed species requiring special consideration.
- Undertake identification of any exotic fauna occupying the dams.
- Identify options for the most practical dam dewatering approach, including consideration of discharge locations and potential impacts to surrounding receiving environments.
- Identification of suitable relocation sites for the release of aquatic fauna.

Vegetation within and surrounding the dams located within the study area was surveyed using the random meander technique (Cropper 1993).

### **2.2.1 Mapping**

Detailed field mapping and collection of GPS point locations were conducted using hand-held (uncorrected) tablet units (Samsung Galaxy Tab X) running the ArcGIS Field Maps application, using the inbuilt GPS, and aerial photo interpretation. Spatial locations are therefore considered to have an accuracy of generally  $\pm 5$  metres.

### **2.2.2 Data analysis**

To provide an indication of size and inform dewatering procedures, the volume of each dam has been estimated. Dam volume (cubic metres) was estimated according to the mapped surface area of each dam based on aerial image collection (Nearmaps, 7 September 2021), multiplied by the approximate depth at the time of the field assessment, multiplied by 0.4 to account for a batter slope of the dam, which was then converted to megalitres.

## 3 Site description

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The three dams and the areas immediately surrounding the dams that may be disturbed during the dewatering process are the focus of this plan, the condition and ecological values of these features are described below and mapped in Figure 2, with the three dams that form the focus of this plan identified as Dam A, Dam B and Dam C in Figure 2.

### 3.1 Landscape context

The study area currently consists of previously cleared lands with residential dwellings and associated sheds and infrastructure. There are three waterways and three dams within the study area. The surrounding land use is similar with residential dwellings on rural lots with small agriculture.

### 3.2 Vegetation communities

The existing vegetation within and surrounding the study area has been extensively modified by past disturbance and agriculture. The vegetation surrounding the three dams is limited to highly disturbed Urban Native/Exotic vegetation. The Urban Native/Exotic community surrounding the dams is dominated by exotic species and lack of native flora species and structural diversity. No threatened flora species were observed surrounding the dams.

#### 3.2.1 Priority weeds

Six priority weeds for the Greater Sydney LLS region, which includes the Penrith City Council LGA, have been recorded in the study area. Table 2 outlines the priority weeds recorded within the study area listed under the *Biosecurity Act 2015* (Biosecurity Act) at the time of the assessment and their associated Biosecurity Duty in accordance with the Biosecurity Act (where relevant).

The Biosecurity Act provides for the identification, classification and control of priority weeds with the purpose of determining if a biosecurity risk is likely to occur. A priority weed is any weed identified in a local strategic plan, for a region that includes that land or area, as a weed that is or should be prevented, managed, controlled or eradicated in the region.

The General Biosecurity Duty as outlined in the Biosecurity Act states:

*All plants are regulated with a General Biosecurity Duty to prevent, eliminate or minimise any biosecurity risk they may pose. Any person who deals with any plant, who knows (or ought to know) of any biosecurity risk, has a duty to ensure the risk is prevented, eliminated or minimised, so far as is reasonably practicable.*

Two priority weeds occur in fringing areas around the dams; Blackberry *Rubus fruticosus* spp. agg. and Peruvian Primrose *Ludwigia peruviana*. Chemical control of priority weeds in proximity to the dams is not recommended due to the potential negative impacts on aquatic entities and downstream environment if the chemicals are mobilised. Manual control is therefore recommended where possible prior to dam dewatering and infilling. Chemical control post-infilling is acceptable as per Table 2.



**Table 2 Priority and environmental weed management measures**

| Scientific Name                                     | Common name       | Biosecurity Duty                                                                                                                                                                                                                                                                                           | Initial treatment (70 % kill)                                                                                                                                                                                                                                                                     | Maintenance weed control (90 % kill)                                                                                                                                                                       | Timing                                |
|-----------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b><i>Cestrum parqui</i></b>                        | Green Cestrum     | <u>Regional Recommended Measure</u><br>Land managers should mitigate spread from their land.                                                                                                                                                                                                               | Small specimens may be 'scraped and painted' using a 'neat' 360 g/L Glyphosate based herbicide in areas of high regeneration potential. Larger stands chemically treat using a Triclopyr 300 g/L + Picloram 100 g/L based product Gazon® DS late spring to early autumn.                          | Hand remove seedlings or spot spray with a 360 g/L Glyphosate based herbicide at a diluted rate of 10 ml/L of water.                                                                                       | All year, prior to flowering.         |
| <b><i>Ludwigia peruviana</i></b>                    | Peruvian Primrose | <u>Regional Recommended Measure</u><br>Land managers should mitigate the risk of new weeds being introduced to their land. Land managers prevent spread from their land where feasible. Local Control Authority is notified if the plant is found on the land.                                             | Small plants may be manually removed. All biomass is to remain on site to reduce the incidence of seed spread. Chemically treat (spray) using a Glyphosate based product (registered for aquatic use) at a dilution rate of 1.0 L per 100 L of water on actively growing plants (semi deciduous). | Hand remove seedlings/shooting nodes or spot spray with a 360 g/L Glyphosate based herbicide at a diluted rate of 10 ml/L of water.                                                                        | Treat before Spring/summer flowering. |
| <b><i>Olea europaea</i> subsp. <i>cuspidata</i></b> | African Olive     | <u>Regional Recommended Measure</u><br><i>Exclusion zone (Blue Mountains City Council LGA and Penrith LGA west of the Nepean River) and core infestation area.</i><br>The plant is eradicated from the land and the land kept free of the plant. Land managers should mitigate the risk of new weeds being | Seedlings can be manually removed. Cut/paint, scrape/paint and apply 'neat' 360 g/L Glyphosate based herbicide to actively growing stems in areas of in areas of high regeneration potential (Offlabel permit: PER9907).                                                                          | Hand remove seedlings or spot spray with a 360 g/L Glyphosate based herbicide at a diluted rate of 10 ml/L of water. Monitor for secondary weed incursions post removal of large monoculture infestations. | All year.                             |

| Scientific Name                         | Common name         | Biosecurity Duty                                                                                                                                       | Initial treatment (70 % kill)                                                                                                                                                                                                                                                                                                                                                                                                                 | Maintenance weed control (90 % kill)                                                                                 | Timing                                                                            |
|-----------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                         |                     | introduced to their land. Land managers prevent spread from their land where feasible. Land managers reduce impacts from the plant on priority assets. |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                      |                                                                                   |
| <b><i>Opuntia stricta</i></b>           | Common Prickly Pear | General Biosecurity Duty                                                                                                                               | Foliar spray using Triclopyr 600 g/L based product at a dilution rate of 3.0 L in 100 L of water. The introduction of biological controls Cochineal and Cactoblastis are suggested for large infestations.                                                                                                                                                                                                                                    | Spot spray seedlings and or propagules.                                                                              | All year.                                                                         |
| <b><i>Rubus fruticosus</i> sp. agg.</b> | Blackberry complex  | General Biosecurity Duty                                                                                                                               | Dig out single plants (biomass to remain on site) or scape and paint using a 'neat' 360 g/L Glyphosate based herbicide (Offlabel permit: PER9907). Chemically treat larger infestations using either a 360 g/L Glyphosate based herbicide at a diluted rate of 10–13 mL per 1 L of water or a APVMA approved broad leaf selective herbicide applied at the registered rate. Slashing may be required to gain access and stimulate new growth. | Hand remove seedlings or spot spray with a 360 g/L Glyphosate based herbicide at a diluted rate of 10 ml/L of water. | All year, best results during flowering and fruiting period (Summer late/Autumn). |
| <b><i>Senecio madagascariensis</i></b>  | Fireweed            | General Biosecurity Duty                                                                                                                               | Hand remove isolated infestation in areas of high regeneration potential. Spot spray using 360 g/L Glyphosate based                                                                                                                                                                                                                                                                                                                           | Hand remove seedlings or spot spray with a 360 g/L Glyphosate based herbicide at a                                   | All year.                                                                         |

| Scientific Name | Common name | Biosecurity Duty | Initial treatment (70 % kill)                    | Maintenance weed control (90 % kill) | Timing |
|-----------------|-------------|------------------|--------------------------------------------------|--------------------------------------|--------|
|                 |             |                  | herbicide at a diluted rate of 10 ml/L of water. | diluted rate of 10 ml/L of water.    |        |

### 3.3 Aquatic habitats

A tributary of South Creek is mapped towards the north-eastern boundary. In addition, three man-made dams (Dam A, Dam B and Dam C) occur within the development footprint (Figure 2) with one of the dams being associated with the tributary of South Creek. Each dam is described in detail in Table 3, Table 4 and Table 5.

**Table 3 Description of dams within the study area – Dam A**

| Dam A          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface area   | 29,744 m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Depth estimate | 3 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Capacity       | 35,693 ML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description    | <p>The dam is unshaded and located within a cleared paddock to the south-west of the study area (Photo 1). The dam has some floating drum lines present. It holds clear water with minimal aquatic macrophytes present (Photo 2). Aquatic macrophytes include <i>Azolla</i> spp. in the western corner, minor occurrences of <i>Typha orientalis</i> at the eastern end, and scattered occurrences of Duckweed <i>Lemna</i> spp. Some algae is present on decaying submerged macrophyte material around the margins but not in significant amounts.</p> <p>No native fauna were sighted during the assessment. No exotic pest fish (Eastern Gambusia <i>Gambusia holbrooki</i>, Goldfish <i>Carassius auratus</i> or Carp <i>Cyprinus carpio</i>) were sighted along the margins.</p> |
| Dam A          |  <p><b>Photo 1 Dam A, to the south-west of the study area</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



| Dam A |                                                                                                                                                     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Dam A | <div></div> <p><b>Photo 2      Macrophytes fringing Dam A</b></p> |

**Table 4      Description of dams within the study area – Dam B**

| Dam B          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface area   | 860 m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Depth estimate | 1.5 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Capacity       | 516 ML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Description    | <p>The dam is unshaded and located within a cleared paddock in the centre of the study area (Photo 3). The water was highly turbid during the field assessment. Aquatic macrophytes present include <i>Juncus usitatus</i>, decaying Slender Knotweed <i>Pericaria decipiens</i> around the margins, minor occurrences of <i>Azolla</i> spp. on the surface around margins, and scattered occurrences of Duckweed.</p> <p>Native fauna sighted during the assessment included one Eastern Long-necked Turtle and one Eel. No exotic pest fish (Eastern Gambusia, Goldfish or Carp) were sighted from the dam margins.</p> |

**Dam B**

**Dam B**



**Photo 3      Dam B, within the centre of the study area**

**Table 5      Description of dams within the study area – Dam C**

| <b>Dam C</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Surface area</b>   | 4,131 m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Depth estimate</b> | 3 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Capacity</b>       | 4,958 ML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>    | <p>A tributary of South Creek is mapped as traversing Dam C from east to west, however the flow of the tributary was observed to be disconnected due to the presence of the dam. The condition of the waterway is described in the Waterways Assessment (Biosis 2022b). The unnamed first order waterway has been heavily modified historically, and while still the lowest point within the landscape, contains no features representative of a waterway or defined bed and bank. The triangular dam covers the majority of what was once the riparian corridor, with only an overland flow path linking the north-west corner of the dam with the neighbouring downstream dams. The overland flow path contains no features indicative of a riparian corridor and is considered to remain dry for the majority of the year, and therefore does not provide habitat that would support an aquatic ecological community.</p> <p>The inflow to the dam is an overflow from an immediately adjacent upstream dam, on the neighbouring property to the east. The overflow of the adjoining dam spills over a levee bank and flows down a cobbled narrow channel into the dam. Numerous Prickly Pear <i>Opuntia</i> spp. (priority weed) individuals are growing in the overflow channel between these two dams.</p> <p>The two “overland” flow pathways are the only features within the vicinity of the mapped waterway. As such, it is clear that the waterway is heavily modified and is not consistent with the descriptions of waterfront land or a vegetated riparian zone.</p> <p>The waterway is classified as TYPE 3 minimally sensitive key fish habitat and CLASS 4 unlikely key fish habitat. No areas were identified that were consistent with the definitions of Key Fish Habitat described by Fairfull (2013, DPI 2024). First or second order waterways are also not considered Key Fish habitat unless they contain key features to support native fish species, or the waterway supports threatened species listed under the FM Act or BC Act. Therefore, the waterway does not contain Key Fish</p> |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dam C | <p>Habitat. The dam is unshaded and located within a cleared paddock to the north-east of the study area (Photo 4). It has clear water and minimal aquatic macrophytes (Photo 5), limited to <i>Typha orientalis</i> around the margins, which includes occurrences of Moth Vine <i>Araujia sericifera</i>, <i>Azolla</i> spp. and Duckweed in the south-west corner.</p> <p>No native fauna was sighted during the assessment. The pest fish species Eastern Gambusia were sighted in the dam.</p> |
| Dam C |  <p>Photo 4      Dam C, located to the north-east of the study area</p>                                                                                                                                                                                                                                                                                                                                          |
| Dam C |  <p>Photo 5      Macrophytes fringing Dam C</p>                                                                                                                                                                                                                                                                                                                                                                 |

3.4 Aquatic fauna habitats

Limited fauna habitat features were recorded throughout the dams during field surveys. The aquatic habitat within the dams was in moderate condition with only a few native aquatic flora species being observed.



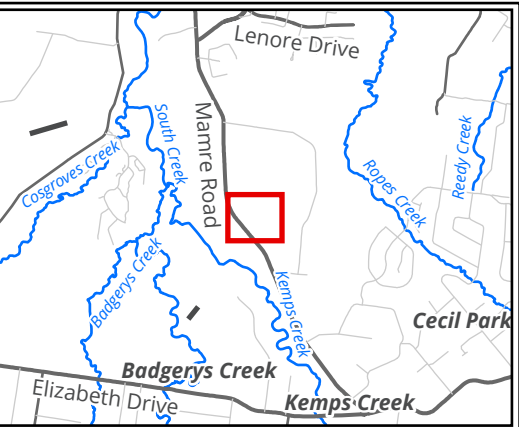
Aquatic native fauna species observed within the dams included one Eastern Long-necked Turtle, one Eel and the Common Eastern Froglet *Crinia signifera*.

No waterfowl nests were observed surrounding the dams, however several species were observed utilising the dams or adjacent to the dams, including Hardhead *Aythya australis*, Australasian Grebe *Tachybaptus novaehollandiae*, White-faced Heron *Egretta novaehollandiae*, Pied Cormorant *Phalacrocorax varius*, Little Pied Cormorant *Microcarbo melanoleucos*, Dusky Moorhen *Gallinula tenebrosa*, Pacific Black Duck *Anas superciliosa*, Eurasian Coot *Fulica atra*, Royal Spoonbill *Platalea regia*, Australian White Ibis *Threskiornis molucca* and Eurasian Coot *Fulica atra*.

Exotic fauna observed within the dams included the pest fish species Eastern Gambusia.

Due to the size and permanence of the dams it is considered likely that abundant levels of common native and exotic fauna may be resident within these dams due to the level of connectivity and proximity to waterbodies. There is also the potential for anthropogenic translocations of pest species to have occurred in the past and as such is expected that pest Goldfish or Carp may be present in one or more of the dams. Department of Planning and Industry (DPI) requires that pest species must be destroyed in line with Section 4.3.2 below.





- Legend**
- Study area
  - Dewatering area
  - Flow direction
  - Lot
  - Contour (2m)
  - Waterway
- Vegetation to be retained**
- 849 - Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain, consistent with TEC Cumberland Plain Woodland in the Sydney Basin Bioregion

**Figure 2 Ecological features of the study area**

0 20 40 60 80 100  
Metres  
Scale: 1:3,000@ A3  
Coordinate System:  
GDA2020 MGA Zone 56



Matter: 40491, Date: 03 May 2024,  
Prepared for: CH, Prepared by: HL, AM, Last edited by: hliswoyo  
Location: P:\40400s\40491\Mapping\  
40491\_MamreRdDewatering\_Updates,  
Layout: 40491\_DW\_F2\_EcoFeatures



## 4 Dam dewatering process

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The following sections outline the dam dewatering process to be undertaken to mitigate impacts to resident aquatic fauna that may be present within the dam to be dewatered at the decommissioning stage.

### 4.1 Method of dewatering

Given the slow rate of dewatering required, flocculation of the water in the dams prior to dewatering may be required to reduce sediment loads. Appendix 1 provides the Erosion and Sedimentation Package (P104\_ALTIS\_SSD17647189-ESC) (Ochre Environmental Management 2024a), including dewatering method notes. A 'fish-safe' flocculating agent such as 'Aquatic Clear Dam' produced by Aquatic Technologies, is recommended to mitigate any potentially negative impacts upon resident aquatic biota, if suitable for treatment of the specific turbidity conditions of the dams.

The dam dewatering process will typically utilise an engine driven six-inch water pump that has the capability to transfer up to 2,500 litres per minute. The flow rate of the pump should be monitored over the duration of the activity with scope to suitably adjust the pump flow rate to coincide with the site-specific rate of water disposal. Additionally, a screen will be required on the inflow with a maximum mesh size of 500 microns, to prevent sediment and fauna being sucked into the pipe and prevent the spread of pest fish species. Floats and lines should be fitted to the pump heads to ensure that the head can be readily moved to avoid the suction of sediment instead of water.

### 4.2 Water disbursement and sediment control

Biosis understands that direct discharge into waterways is not proposed, however indirect discharge of treated water into Kemps Creek may occur. Potential impacts to receiving waterways and protection of aquatic ecosystems will be avoided through treatment of the discharged water and adherence to the Penrith DCP Section C3 Water Management.

Water is to be removed from the dams via pumps, treated in tanks, before being disbursed onto grassed areas to the south-east of Dam A, with small volumes of water to flow into the culvert along Mamre Road (Appendix 1 and Appendix 2). A potential water disbursement area is provided on Figure 2. Some treated water will also be utilised across the site for dust suppression.

A diagram of the flow path of water following disbursement is provided in Attachment A of Appendix 3 (Ochre Environmental Management 2024b). A review of these flow paths was undertaken by Ochre Environmental Management (2024b) on Thursday 30 May 2024 to assess the adequacy of the proposed dewatering route and to provide guidance on the dewatering process. It was noted during the assessment that the proposed flow path is well vegetated with stable grass species and has minimal areas of exposed surfaces. The flow is to pass through six pipes that occur below three roads, including:

- Two 525 mm diameter pipes along Mamre Road.
- One 525 mm diameter pipe along a private access road on Lot 33 DP258414 to the west of Mamre Road.
- Two 450 mm diameter pipes and one 375 mm diameter pipe along a private access road on Lot 33 DP258414 to the west of Mamre Road.

Water disbursement needs to be slow and controlled to reduce the risk of flooding or nuisance water to downstream properties on Mamre Road. The water flow capacity of the above six pipes will be assessed to



prevent excessive discharge into the downstream system. Based on the Certified Professional in Erosion and Sediment Control (CPESC) assessment undertaken by Ochre Environmental Management, the necessary dewatering rate of 35 litres per second (equivalent to 2,100 litres per minute) is acceptable and will not result in adverse impacts on aquatic fauna and downstream catchment conditions.

Regarding the general flow path (Attachment A of Appendix 3 (Ochre Environmental Management 2024b)), the water flows consistently downstream with no potential gradient flooding. The catchment leads to a vacant parcel of land owned by Barings and/or Associated Superfund on Lot 32 DP258414. Once the water enters this land it is dispersed and gradually leads to Kemps Creek to the western end of Lot 32 DP258414. The use of a screen on the pump inflow will negate any potential risks associated with the translocation of juvenile or pest species' eggs into waterways.

Prior to dewatering, Burton will be implementing an Erosion and Sedimentation Package (P104\_ALTIS\_SSD17647189-ESC) (Ochre Environmental Management 2024a) which will involve scour protection and, if required, clearing around the road crossing inlets and outlets. During the dam dewatering process regular daily inspections and community consultation are to be undertaken. If dewatering is found to be impacting stakeholders downstream, the process will be stopped, and an assessment will be undertaken. Further controls and/or mitigation measures will be put in place under the guidance of the CPESC before commencement.

The Erosion and Sedimentation Package (P104\_ALTIS\_SSD17647189-ESC) (Ochre Environmental Management 2024a) identifies that discharge water from the dams should have a pH range of between 6.5 – 8.5 and a Total Suspended Solids (TSS) value of below 50 milligrams per litre (Pond dewatering notes item 110). The above values align with the water quality standards for dewatering identified in the 'Blue Book' (Landcom 2004), as shown in Table 6. The Dam A dewatering assessment (Appendix 3) recommends NTU to be below 50 (Ochre Environmental Management 2024b). To determine the correlation between TSS and NTU will require sampling and laboratory testing. Burtons have adopted 50 NTU as a safeguard to achieve TSS of less than 50 milligrams per litre. Laboratory testing of water samples will be conducted prior to discharge to ensure that the NTU and TSS correlation will be within the range assumed.

**Table 6 Water quality standards for site dewatering according to the 'Blue Book' (Landcom 2004)**

| Parameter                    | Recommended standard during construction |
|------------------------------|------------------------------------------|
| Total suspended solids (TSS) | 50 mg/L                                  |
| pH                           | 6.5 to 8.5                               |
| Oils and greases             | None visible                             |

Prior to the commencement of the dam dewatering, suitable sediment and erosion controls are to be established around receiving infrastructure as per the Erosion and Sedimentation Package (P104\_ALTIS\_SSD17647189-ESC) (Ochre Environmental Management 2024a).

Direct impacts (e.g., clearing or impacts to root zones) and indirect impacts (e.g., sedimentation) to native vegetation to be retained adjacent to the Dam A along Mamre Road is to be avoided, where possible. The avoidance of impacts to these areas of native vegetation to be retained should be considered in the design and establishment of diversion drains. Water disbursement should avoid resulting in water flow through retained native vegetation as per Figure 2.

Removed silt and/or sediments from the basins will be placed in a stockpile. The stockpile will be continually turned over until the material has been dried out. After the material is dried out, it will be incorporated into bulk earthworks. Any rubbish or debris will be placed in a stockpile on site and material waste classification

will be undertaken prior to disposal off-site to a licenced tipping facility. Biosis recommends testing silt and/or sediments for contaminants, pollutants and/or heavy metals of any material that is to be relocated or disposed of off-site. No testing is required for silt and/or sediments unless there is an unexpected find (Unexpected Finds Protocol to be followed).

Dam A and Dam C will be dewatered, followed by removal of sediments and used as sediment basins on site. Dam B will be dewatered, followed by removal of sediments and backfilled. Dewatering and reuse of dams is to be undertaken in line with the Erosion and Sedimentation Package (P104\_ALTIS\_SSD17647189-ESC) (Ochre Environmental Management 2024a).

#### 4.2.1 Water quality testing

Burton's contractors will undertake in situ water quality testing prior to, and during (at hourly intervals) dam dewatering by collecting the following parameters:

- Water temperature (°C)
- Turbidity (Nephelometric Turbidity unit, NTU)
- Dissolved oxygen (% saturation)
- Electrical conductivity (µS/cm)
- pH

Visual assessments of the water can also be undertaken for the dams and relocation sites. Burton's discharge water quality checklist will be adhered to throughout the dam dewatering process (see Appendix 4).

Discharge water from the dams should have turbidity below 50 NTU, a pH range of between 6.5–8.5 and a Total Suspended Solids (TSS) value of below 50 milligrams per litre, as defined in Section 4.2. If water quality deteriorates during dam dewatering, further dewatering, including lowering of the dam water will cease immediately. The water will be tested for pH and turbidity and recorded. Dewatering will not recommence until pH and turbidity meet the requirements stated in Section 4.2.

### 4.3 Environmental protection measures

Given the likelihood of common native aquatic species occurring within the dams, aquatic fauna salvage is to be undertaken by appropriately qualified and experienced ecologists. Aquatic fauna salvage involves the capture of aquatic fauna from within the dam and relocation to suitable habitat outside of the area of impact.

The ecologists must hold a current Scientific Licence issued by the Environment, Energy and Science Group under the *National Parks and Wildlife Act 1974*, NSW DPI Fisheries Permit (Section 37 Scientific Collection Permit) and Animal Research Authority (section 25 of the Animal Research Act 1985). The permit or licence numbers must be included in the dam dewatering report.

To reduce and minimise the risk of injury to aquatic fauna which may be present, a standard three-stage dam dewatering procedure is proposed. Aquatic fauna salvage will take place during stage two of the dewatering process with fauna relocation taking place during stage three to a location of residency for the salvaged fauna. All stages must be complete prior to dam infilling, which is required to ensure that the dam is not refilled by rainfall or re-colonised following dewatering. A description of the three-stage procedure is outlined below, with specific considerations for each dam identified in the following section.

The abundance of fauna and condition of dam walls and beds can be highly unpredictable and as such the salvage and dewatering process must necessarily be adaptive. The ecologist will provide onsite advice as the process progresses as to the manner of salvage and any alternate methods that may be employed.

### Stage one

Stage one involves the initial pumping of water to the appropriate depth for ecologists to salvage fauna. This process may take some time and on-site supervision is not required by the ecologist at this stage. Each dam should be reduced to a wadable depth (i.e., approximately 30 centimetres). An inspection is recommended when water levels are reduced to approximately 20 % of the full capacity of the dam. It is recommended that the ecologist is consulted by phone or email at this stage to confirm whether the level of reduction achieved is likely to be appropriate to provide an opportunity for aquatic fauna to relocate themselves prior to physical salvage occurring and for salvage to be practicable.

Stage two should commence within 24 hours of stage one being completed, where possible, to ensure no adverse impacts to native aquatic biota through reduced water availability and reduced dissolved oxygen levels.

### Stage two

The dams will be inspected for safety and suitability by the ecologist who will then attempt aquatic fauna salvage using appropriate methods, which may include the use of seine nets, deployment of fyke nets for a suitable period of time as well as opportunistic dip netting during this process.

Considerations for individual dams in relation to fauna salvage are as follows:

- Dam A is likely too large to employ the use of seine nets and effective use of fyke nets even at significantly reduced water levels. In the event of limited accessibility, sediment ramps are to be constructed into the waterbody, facilitating access for ecologists into the dam and aquatic biota out of the dam.
- Given the current relatively low water levels of Dam B, and that this dam is not proposed to be utilised as a sediment basin, it is recommended that dewatering and salvage takes place as soon as practicable to avoid the refilling of the dam via rainfall.
- The field assessment identified that Dam C sits low in the landscape and there is the potential for recharge through the soil profile to occur during dewatering from an immediately adjacent dam that is located to the south-east on the adjoining property, which sits higher in the landscape. The project engineer should consider whether the dewatering operation may negatively impact upon the adjoining dam and how the effects of recharge into Dam C may be prevented or reduced to facilitate the salvage operation.
- Sediment basins are proposed to be used on site, which includes the utilisation of Dam A and Dam C as sediment basins, plus an additional location in the south-west of the study area (Appendix 1). Dewatering and salvage activities should be undertaken immediately prior to decommissioning and sediment infilling of these dams to avoid the refilling and recolonisation of these dams following salvage by mobile aquatic biota. The additional sediment basin constructed on site should be inspected by an ecologist prior to dewatering to identify the potential for aquatic fauna to have colonised the basin and advise whether salvage during dewatering of that basin is recommended.

If fauna is observed in proximity to the pump head, works are to cease until the individual moves clear of the pump or is removed by the ecologist.



Captured fauna are to be placed into shaded containers with conditions suitable for each species (i.e., water and aerators for fish). These containers should not become overcrowded, multiple trapping and relocation cycles may be required in the event of highly abundant fauna being identified.

If a dam is deemed not safe to enter (i.e., unstable dam walls or sharp submerged debris), Seine nets will be attempted to be used from the dam banks and the mechanical excavation of dam sediments may be recommended and then searched for fauna, as is safe and practicable. If after attempting salvage using the methods detailed above the ecologist identifies the site conditions prevent the safe and effective salvage of any remaining resident aquatic fauna the ecologist will advise the site manager and provide recommendations for the mitigation of potential impacts to fauna wherever practicable. The ecologist will then provide a report detailing the site conditions, all attempts made to salvage fauna and recommendations made to mitigate any further impacts. The ecologist will remain available to provide advice and attend site to salvage any fauna identified as being able to be captured and relocated through the rest of the dewatering process (e.g., movement of freshwater turtles out of the dam as water levels further decrease).

### Stage three

Stage three involves the relocation of any native aquatic biota remaining within the dam as water levels are further lowered. Fauna will be relocated to accessible suitable habitat outside the area of works. The ecologist is to notify DPI Fisheries of the activity 48 hours prior to relocation, including the site works location and proposed or potential relocation sites.

Once the salvaged native fauna has been relocated, the dam will be inspected for any additional signs that native fauna may be present. If not or where all practicable and safe measures have been taken to salvage fauna, recommendations will then be made to prevent harm to any native fauna that may be unexpectedly encountered.

#### 4.3.1 Relocation sites

The availability of publicly accessible sites with suitable habitat, connectivity and flow conditions are highly limited. Suitable locations are to be investigated prior to the Stage 2 dam dewatering process to ensure safe and ready access at the time of dewatering. Potential relocation sites (shown in Figure 1) include:

- Site 1: South Creek Park (Charles Hackett Drive, St Marys). This site is 10 km from the study area, approximately a 15-minute drive from the study area.
- Site 2: Werrington Creek (Glencoe Avenue, Werrington County). This site is 15 km from the study area, approximately a 25-minute drive from the study area.
- Site 3: Nepean River Boat ramp (Tench Avenue, Jamisontown). This site is 20 km from the study area, approximately a 20-minute drive from the study area.

The relocation point or points will necessarily be dynamic and depend on the species and number of native fauna captured. Abundant predatory fish such as Eels should not be relocated at the same release sites. If large specimens of Eels or Turtles are collected, these would be released at different points in areas of suitable habitat to reduce stress, predation risk or overcrowding to smaller fauna.

#### 4.3.2 Pest species

NSW DPI requires that scientific collection permit holders destroy any aquatic pests, parasites or other aquatic diseases (including Carp, Goldfish, Eastern Gambusia and Redfin Perch *Perca fluviatilis*) listed under Schedule 2 of the Biosecurity Act 2015 or under Schedule 1, Part 2 of the Biosecurity Regulation 2017 that are

collected in a humane manner and not return them to any waterway. These works will be undertaken under the appropriate ethics approval as part of the scientific collection permit.

Pest fish will be euthanized by an appropriately licensed ecologist in the manner most appropriate to the fish species encountered and disposed of, if required, at a landfill site. Pest fish may be euthanized using an overdose of Aqui-S, which anaesthetises the fish with the overdose continuing to take the individual through to medullary collapse and subsequently death. Small-bodied fish species that may be captured in high abundances, such as Eastern Gambusia, may be euthanized using an ice slurry. Large specimens of Carp or Goldfish may be required to be euthanized using blunt force trauma.

If the exotic Red-eared Slider Turtle *Trachemys scripta elegans* is identified, individuals are to be captured and humanely contained. The DPI Biosecurity Line (1800 680 244) is to be contacted to report the sighting and advise whether DPI will collect the specimens.

#### 4.3.3 Dewatered and dry dams

Given there are requirements for the removal of sediment within the dams and backfilling, the focus of these steps is to minimise harm to fauna in the unlikely event that any individuals remain. These recommendations include:

- Fauna salvage is to be undertaken prior to backfilling, as aquatic fauna may otherwise recolonise these basins.
- Personnel are to undertake a visual review of the base of the dam prior to the commencement of works for the presence, or signs, of any fauna.
- If the dams are found to be free of fauna, the client or sub-contractors operating on the client's behalf may proceed unrestricted with excavating and backfilling the dam without the need of any further inspections by an ecologist.
- If the presence of fauna is identified, Burton will cease works and notify an ecologist to arrange for the salvage and relocation, to ensure the protection of fauna.

Any additional recommendations specific to each dam will be made by the ecologist on site and following the salvage operation as relevant to the specific conditions and processes employed.

## 4.4 Inductions

Site inductions are to be given to all personnel involved with dam dewatering to ensure that they are aware of the correct procedure to discharge water from the dams and minimisation of impacts to biodiversity as outlined in Section 4. These inductions are to be provided prior to the commencement of dam dewatering works.

Contractor supervisors are required to identify all potential environmental impacts and implement and maintain control measures, procedures and constraints, accordingly, these should be documented as part of a CEMP or similar. Site specifics include the presence of threatened species habitat and locally significant vegetation communities. General site inductions must also include strict hygiene protocols to reduce the potential introduction of invasive flora and fauna species or disease into the site.

## 4.5 Reporting

A brief letter report will be prepared and supplied to Burton describing the dewatering operation, detailing the outcomes of the aquatic fauna salvage and providing any additional recommendations for the project and protection of aquatic fauna as relevant.

## 4.6 Mitigation measures and controls

Mitigation measures and controls relevant to dam dewatering are provided in Table 7 below.

**Table 7 Mitigation measures and controls relevant to dam dewatering.**

| Item no. | Description                      | Mitigation Measures and Controls                                                                                                                                                                                                 | Timing                            | Responsible Person      |
|----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------|
| 1.       | Department of Primary Industries | Obtain permit.                                                                                                                                                                                                                   | Prior to dam dewatering.          | Client.                 |
| 2.       | Weed control                     | Manual control of priority weeds in proximity to the dams prior to dam dewatering and infilling.                                                                                                                                 | Prior to dam dewatering.          | Contractor.             |
| 3.       | Site inductions                  | Site inductions are to be given to all personnel involved with dam dewatering.                                                                                                                                                   | Prior to dam dewatering.          | Contractor.             |
| 4.       | Sediment and erosion controls    | Suitable sediment and erosion controls are to be established around receiving infrastructure as per the relevant Erosion and Sedimentation Package (P104_ALTIS_SSD17647189-ESC) (Ochre Environmental Management 2024a).          | Prior to dam dewatering.          | Contractor.             |
| 5.       | DPI – Fisheries notification     | Approximately 48 hours prior to the commencement of dewatering activities, the ecologist is to notify DPI - Fisheries that the dams are to be dewatered and provide the locations of the dams and the proposed relocation sites. | 48 hours prior to dam dewatering. | Ecologist.              |
| 6.       | Flocculation                     | Flocculation of the water in the dams prior to dewatering to reduce sediment loads, using a 'fish-safe' flocculating agent such as 'Aquatic Clear Dam' produced by Aquatic Technologies.                                         | Prior to dam dewatering.          | Contractor.             |
| 7.       | Ecological supervision           | A suitably qualified ecologist will be present on-site during and following the dewatering of the dams until they are decommissioned to the satisfaction of the ecologist.                                                       | During dam dewatering.            | Ecologist.              |
| 8.       | Retained vegetation              | Condition of retained vegetation to be monitored throughout dewatering to ensure no direct impacts (e.g., clearing or impacts to root zones) or indirect impacts (e.g., sedimentation).                                          | During dam dewatering.            | Ecologist.              |
| 9.a      | Water runoff west of Dam A onto  | Implement site specific ESCP (Ochre Environmental Management 2024a).                                                                                                                                                             | Prior to dam dewatering.          | CPESC/ Site Supervisor/ |



| Item no. | Description                             | Mitigation Measures and Controls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Timing                              | Responsible Person                                                                                               |
|----------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------|
|          | Mamre Road during dewatering            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     | Contractors<br>Environmental Site Representative (CESR).                                                         |
| 9.b      |                                         | Undertake community consultation, including: <ul style="list-style-type: none"> <li>• Notifications.</li> <li>• On-going liaison.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                            | Prior to and during dam dewatering. | Community liaison person/ Site Supervisor/ Site Engineer.                                                        |
| 9.c      |                                         | ESCP (Ochre Environmental Management 2024a) is adequately implemented prior to dewatering                                                                                                                                                                                                                                                                                                                                                                                                                               | Prior to dam dewatering.            | CESP/ Site Supervisor/ CESR.                                                                                     |
| 9.d      |                                         | Daily and weekly inspections that erosion and sediment controls are working effectively and that there is no scouring/resuspension of sediments.                                                                                                                                                                                                                                                                                                                                                                        | During dam dewatering.              | Daily inspections by Site Supervisor and/or worker.<br>Weekly inspections by Site Supervisor and/or CPESC/ CESR. |
| 9.e      |                                         | Daily and weekly inspections that the downstream environment is not flooding.                                                                                                                                                                                                                                                                                                                                                                                                                                           | During dam dewatering.              | Daily inspections by Site Supervisor and/or worker.<br>Weekly inspections by Site Supervisor and/or CPESC/ CESR. |
| 10.      | Rate of dewatering                      | Water flow monitored over the duration of the activity with scope to suitably adjust the pump flow rate to coincide with the site-specific rate of water disposal (e.g., 300 L/min).                                                                                                                                                                                                                                                                                                                                    | During dam dewatering.              | Contractor.                                                                                                      |
| 11.      | Timing for Dewatering                   | Although there is currently no seasonal restriction for the timing of dewatering, it is recommended that the following environmental conditions are avoided during dewatering of the dam: <ul style="list-style-type: none"> <li>• Daytime temperatures above 35°C whereby the capture location may overheat; or</li> <li>• During rainfall events of more than 20 mm in a 24-hour period; or</li> <li>• The three days prior to a predicted rain event, or more than 50 mm of rain within a 72-hour period.</li> </ul> | During dam dewatering.              | Contractor.                                                                                                      |
| 12.      | Fauna Handling and Relocation Protocols | The protocols for fauna handling and translocation are to be explained to all persons working on the dewatering activities.                                                                                                                                                                                                                                                                                                                                                                                             | Prior to dam dewatering.            | Ecologist.                                                                                                       |

| Item no. | Description                                                                                           | Mitigation Measures and Controls                                                                                                                                                                                                                                                                                                                                                                               | Timing                              | Responsible Person     |
|----------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------|
| 13.a.    | In the event of any threatened species being detected during pre-clearing surveys or dewatering works | All dewatering works, including removal of vegetation and/or lowering of dam water will cease immediately.                                                                                                                                                                                                                                                                                                     | Prior to and during dam dewatering. | Contractor/ Ecologist. |
| 13.b.    |                                                                                                       | Further searches are to be conducted by the attending ecologists to determine number of threatened individuals present.                                                                                                                                                                                                                                                                                        | Prior to and during dam dewatering. | Contractor/ Ecologist. |
| 13.c.    |                                                                                                       | Council and DCCEEWs Biodiversity, Conservation and Science (BCS) are to be notified of the finding and measures put in place for appropriate translocation of the threatened individuals.                                                                                                                                                                                                                      | Prior to and during dam dewatering. | Contractor/ Ecologist. |
| 13.d.    |                                                                                                       | If required, a Licence to Harm Threatened Species application is to be made to relocate any threatened species found during dewatering works. Dewatering works are not to recommence until all threatened individuals are captured and relocated.                                                                                                                                                              | Prior to and during dam dewatering. | Contractor/ Ecologist. |
| 14.      | Water testing                                                                                         | Dams to be tested before dewatering in accordance with Section 4.2.1. Dams to be tested hourly (minimum) during dewatering to monitor dam condition.                                                                                                                                                                                                                                                           | Prior to and during dam dewatering. | Contractor/ Ecologist. |
| 15.a.    | In the event that water quality deteriorates during dewatering                                        | All dewatering works, including lowering of dam water will cease immediately.                                                                                                                                                                                                                                                                                                                                  | During dam dewatering.              | Contractor.            |
| 15.b.    |                                                                                                       | Water will be tested for pH and turbidity and recorded.                                                                                                                                                                                                                                                                                                                                                        | During dam dewatering.              | Contractor.            |
| 15.c.    |                                                                                                       | Dewatering will recommence after pH and turbidity meets the requirements.                                                                                                                                                                                                                                                                                                                                      | During dam dewatering.              | Contractor.            |
| 16.      | Post-dewatering fauna controls                                                                        | After dewatering, an escape ramp should be graded to allow trapped fauna to escape overnight. Dam sediment will be inspected for fauna by the ecologist on site to capture any fauna that may be buried in the sediments at the bottom. The dam will be left for at least 72 hours undisturbed, to allow hidden fauna to emerge and ensure fauna have an opportunity to relocate, prior to further site works. | Following dam dewatering.           | Contractor.            |
| 17.      | Silt/sediment testing                                                                                 | Test silt and/or sediments for contaminants, pollutants and/or heavy metals following their removal from the dams, if material is proposed to be relocated or disposed of off-site, or there is an unexpected find. Unexpected Finds Protocol to be followed.                                                                                                                                                  | Following dam dewatering.           | Contractor.            |

## References

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# Appendices

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## Appendix 1      Erosion and Sedimentation Package (P104\_ALTIS\_SSD17647189-ESC) (Ochre Environmental Management 2024a)

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SITE PREPARATION NOTES:

EXISTING SERVICES NOTES:

EROSION AND SEDIMENT CONTROL NOTES

ALL EARTHWORKS SHALL BE COMPLETED GENERALLY IN ACCORDANCE WITH THE GUIDELINES SPECIFIED BY THE GEOTECHNICAL REPORT FOR THE DEVELOPMENT

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY THE COSIN ROE DRAWINGS SET CO14021.

STRIP ANY TOPSOIL OR DELETERIOUS MATERIAL AND STOCKPILE IN DESIGNATED AREAS WHERE POSSIBLE OR DISPOSE OF FROM SITE IF NOT BEING REUSED.

COMPLETE CUT TO FILL EARTHWORKS TO ACHIEVE THE REQUIRED LEVELS AS INDICATED ON THE DRAWINGS WITHIN A TOLERANCE OF + 0mm/-10mm THROUGH BUILDING PADS/PAVEMENTS AND + 0mm/-20mm ELSEWHERE.

PREPARE STEEP BATTERS TO RECEIVE FILL BY CONSTRUCTING BENCHING TO FACILITATE FILL PLACEMENT AND COMPACTION. EXPOSED ROCK (WEATHERED SHALE OR SANDSTONE) IS ENCOUNTERED AT CUT SUBGRADE LEVEL, THE EARTHWORKS CONTRACTOR IS TO ALLOW TO RIP THE SURFACE TO A NOMINAL 0.5m DEPTH AND RECOMPACT (PER THE ENGINEERING SPEC) AS REQUIRED.

AREAS TO RECEIVE FILL (THAT ARE NOT ON BENCHED BATTERS) AND AREAS IN CUT SHALL BE PROOF ROLLED TO IDENTIFY ANY SOFT HEAVING MATERIAL. SOFT MATERIAL SHALL BE BOXED OUT AND REMOVED PRIOR TO FILL PLACEMENT. PROOF ROLLING TO BE INSPECTED BY A GEOTECHNICAL ENGINEER OR THE EARTHWORKS DESIGNER.

SITE WON FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HILF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HILF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.

IMPORTED FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HILF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98%AND 103%. THE PLACEMENT MOISTURE VARIATION OR HILF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.

ALL ENGINEERED FILL PARTICLES SHALL BE ABLE TO BE INCORPORATED WITHIN A SINGLE LAYER. FURTHER, LESS THAN 30% OF PARTICLES SHALL BE RETAINED ON THE 37.5 mm SIEVE. ENGINEERED FILL SHALL BE ABLE TO BE TESTED IN ACCORDANCE WITH THE STANDARD COMPACTION METHOD (AS1289.5.4.1) OR HILF TEST METHOD (AS1289.5.7.1). THESE METHODS REQUIRE LESS THAN 20%RETAINED ON THE 37.5 mm SIEVE. WHERE BETWEEN 20% AND 30% OF PARTICLES ARE RETAINED ON 37.5 mm SIEVE THE ABOVE TEST METHODS SHALL STILL BE ADOPTED AND TEST REPORTS ANNOTATED APPROPRIATELY. THESE REQUIREMENTS SHOULD BE MET BY THE MATERIAL AFTER PLACEMENT AND COMPACTION

ALL EARTHWORKS SHALL BE COMPLETED UNDER LEVEL 1 CONTROL IN ACCORDANCE WITH AS3789-2007.

PRIOR TO ANY EARTHWORKS, EROSION CONTROL AS OUTLINED IN THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE COMPLETED.

EXISTING ROCK, IF ANY, SHALL BE REMOVED BY HEAVY ROCK BREAKING OR RIPPING.

MATCH EXISTING LEVELS AT BATTER INTERFACE.

CONTRACTOR TO MATCH EXISTING LEVELS AT THE INTERFACE OF EARTHWORKS AND EXISTING SURFACE AT BATTER LOCATIONS OR WHERE NO RETAINING WALLS ARE PRESENT. ANY DISCREPANCY BETWEEN DESIGN AND EXISTING LEVELS TO BE REFERRED TO THE ENGINEER FOR DIRECION OR ADJUSTMENTS TO DESIGN LEVELS.

DURING EARTHWORKS THE CONTRACTOR IS TO ENSURE ALL AREAS ARE FREE DRAINING & WILL NOT RETAIN WATER DURING RAINFALL. PROVIDE TEMPORARY MEASURES AS REQUIRED TO ENSURE FREE FLOWING RUNOFF THROUGH MANAGED DRAINAGE PATHS, DIVERSION DRAINS OR OTHER SUITABLE DISPOSAL METHOD AS AGREED DURING THE WORKS. REFER ANY CONCERNS TO THE ENGINEER. REFER TO EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES.

SURVEY NOTES:

EXISTING SITE LEVELS AND DETAILS BASED ON THE COSIN ROE DRAWINGS SET CO14021.

DURING THE EXECUTION OF WORKS, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING SERVICES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED TO THE EXISTING SERVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT SERVICE AUTHORITY. AT NO COST TO THE PRINCIPAL.

WHERE IT IS NECESSARY TO REMOVE, DIVERT OR CUT INTO ANY EXISTING SERVICE, THE CONTRACTOR SHALL GIVE AT LEAST THREE (3) DAYS NOTICE OF ITS REQUIREMENTS TO THE SUPERINTENDENT, WHO WILL ADVISE WHAT ARRANGEMENTS SHOULD BE MADE FOR THE ALTERATION OF SUCH EXISTING WORKS.

EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. THE ACCURACY IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. ALL CLEARANCES AND APPROVALS SHALL ALSO BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF WORK.

ALL NEW AND EXHUMED SERVICES THAT CROSS EXISTING AND FUTURE ROADS / PAVEMENTS WITHIN THE SITE SHALL BE BACKFILLED WITH DGB20 MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 98% STANDARD DENSITY RATIO. SUBJECT TO PRIOR APPROVAL FROM RELEVANT AUTHORITY.

ON COMPLETION OF SERVICES INSTALLATION. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSSED AREAS, AND ROAD PAVEMENTS.

CARE TO BE TAKEN WHEN EXCAVATING NEAR UTILITY SERVICES. NO MECHANICAL EXCAVATION TO BE UNDERTAKEN OVER SERVICES. LIAISE WITH RELEVANT AUTHORITY.

THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS WITHIN THE CONTRACT AREA AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL TO REGULATORY AUTHORITY STANDARDS AND APPROVAL.

THE CONTRACTOR IS TO MAINTAIN EXISTING STORMWATER DRAINAGE FLOWS THROUGH THE ROADS AT ALL TIMES. MAKE DUE ALLOWANCE FOR ALL SUCH FLOWS AT ALL TIMES.

PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL OF THE PROGRAM FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.

CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES AS REQUIRED TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.

INTERUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE OR DAMAGE TO THE ADJACENT RESIDENCES. CONTRACTOR TO GAIN APPROVAL OF THE SUPERINTENDENT FOR TIME OF INTERRUPTION.

THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG (DBYD 1100) SERVICES SEARCH BEFORE THE COMMENCEMENT OF ANY WORKS.

DEWATERING:

ANY DEWATERING WORKS TO BE AS PER;

(a)THE DEWATERING PROCEDURE AS CONTAINED WITHIN THE DAM DEWATERING MANAGEMENT PLAN (DDMP) DEVELOPED BY BIOSIS UNDER THE CONSULTATION WITH BURTON CONTRACTORS. BURTONS

(b)THE POND DEWATERING PROCEDURES/REQUIREMENTS AS PER NOTES 108 THROUGH TO 118.

(c)DEWATERING CHECKLIST ALSO FOUND IN APPENDIX OF THE DDMP

(d)WSC COORDINATION AND PERMIT APPROVALS

GENERAL CONSTRUCTION NOTES

THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP) HAS BEEN PREPARED BY A CPESC (AS CERTIFIED) IN ACCORDANCE WITH BLUE BOOK VOLUME 1 (LANDCOM, 2004) AND TO MEET THE REQUIREMENTS OF THE CONSTRUCTION PRINCIPALS SET OUT IN THE DRAFT TECHNICAL GUIDANCE FOR ACHIEIVING WIANAMATTA SOUTH CREEK STORMWATER MANAGEMENT TARGETS (NSW GOVERNMENT, 2022). IT DEMONSTRATES THE CONSTRUCTION APPROACH AND TIMING REQUIREMENTS FOR ACHIEVING THE CONSTRUCTION PHASE STORMWATER QUALITY TARGETS.

THIS ESCP HAS BEEN PREPARED IN ACCORDANCE WITH DEVELOPMENT CONSENT SSD-17647189 REQUIREMENTS, SPECIFICALLY CONDITIONS B24 AND B25 (SUBCLAUSE (b)) AND WILL BE VERIFIED IN ACCORDANCE WITH CONSENT CONDITIONS B26 PRIOR TO CONSTRUCTION.

THE STAGING OF CONSTRUCTION ACTIVITIES WILL AIM TO IMPLEMENT FINAL CONTROLS WHERE POSSIBLE TO BE UTILISED DURING CONSTRUCTION (I.E. DRAINAGE FEATURES, LANDSCAPING).

THE STAGING OF ACTIVITIES WILL MINIMISE EXPOSURE OF DISTURBED SURFACES AT ANY ONE TIME AND WILL IMLEMENT PERMANENT AND TEMPORARY SOIL STABILISATION MEASURES (I.E. SOIL POLYMERS, FINAL LANDSCAPE AND VEGETATION AREAS), IN MINIMISING THE DURATION OF SOIL DISTURBANCE AND EXPOSURE TO WIND AND WATER EROSION.

ALL EXPOSED SURFACES OF HIGH RISK AREAS (I.E. STEEP SLOpes (5%), BATTERS, SURFACES NOT DRAINING TO SEDIMENT BASINS AND WORKS IN/NEAR WATERWAYS AND FLOW AREAS) WILL BE STABILISHED WITH TEMPORARY GROUND COVERS LIE. VITAL P47/ STONEWALL, GEOTEXTILE OR BLACK PLASTIC (SECURELY PINNEXOR EQUIVALENT).

LOCAL WEATHER STATIONS (I.E. BADGERYS CREEK AWS) WILL BE MONITORED DAILY (FOR HIGH RAINFALL EVENTS, HIGH WIND PERIODS AND FIRE RISK) AS PART OF DAILY WORKS PLANNING WITH CONSTRUCTION ACTIVITIES IN HIGH-RISK LOCATIONS (I.E. DRAINAGE LINES) SCHEDULED FOR DRY WEATHER PERIODS. WORKS SHALL BE SCHEDULED TO CONSIDER PREDICTED WEATHER CONDITIONS AND IF REQUIRED, CEASED PRIOR TO FORECAST RAINFALL OF 20MM OR MORE WITHIN A 24 HOUR PERIOD RESULTING IN RUNOFF OR ADVERSE SITE ACCESS CONDITIONS.

IN THE EVENT OF HIGH WINDS (>15M/S), ADDITIONAL MEASURES MAY BE IMPLEMENTED INCLUDING THE ALTERATION OF WORK ACTIVITIES, THE APPLICATION OF WATER TO DISTURBED AREAS AND THE COVERING OF EXPOSED SURFACES AND STOCKPILES WILL BE IMPLEMENTED TO MINIMISE IMPACTS TO LOCAL AIR QUALITY.

DUE TO THE PRESENCE OF DISPERSIVE SOIL, ADDING LIME OR GYPSPUM MAY BE UNDERTAKEN AT THE ADVICE OF THE PROJECT CPESC TO DECREASE THE SODIUM EXCHANGE PERCENTAGE, REDUCES DISPERSION, AND INCREASES STABLE SOIL STRUCTURE. IN ADDITION, DRAINS AND CHANNELS WILL BE LINED WHERE TOPSOIL MATERIAL IS REMOVED AND WHERE THEY ARE IN PLACE FOR EXTENDED PERIODS OF TIME OTHER METHODS INCLUDING ADDITION OF ORGANIC MATTER AND DEEP RIPPING MAY ALSO BE CONSIDERED UNDER THE ADVICE OF THE PROJECT CPESC.

THE CONTROLS DEPCTIED ARE SUBJECT TO STAGING AND THE CONTROLS MAY BE PROGRESSIVELY IMPLEMENTED OR REMOVED ACCORDING TO PROGRESSION OF WORKS. ALL IDENTIFIED CONTROLS ARE TO BE IN PLACE AT THE END OF EACH DAY AND IMMEDIATELY PRIOR TO RAINFALL.

STAGING OF CONSTRUCTION WILL BE COORDINATED TO REDUCE EXPOSED AREAS AND ALLOW FOR IMPLEMENTATION OF EROSION AND SEDIMENT CONTROLS PRIOR TO SIGNIFICANT DISTURBANCE.

CONTROLS IDENTIFIED ON THE PLAN ARE INDICATIVE AND WILL BE REVISED FOR IMPLEMENTATION ON THE SITE AS REQUIRED. ALTERNATIVE MEASURES MAY BE APPLIED WHERE CONTROL MAY PROVIDE THE SAME FUNCTIONALITY. THESE WILL BE UPDATED ON THE ESCP.

THE PLAN IS TO BE REVISED WITH PROGRESSION OF WORKS TO MAINTAIN CURRENCY WITH SITE CONTROLS.

TEMPORARY CONTROLS SUCH AS CHECKS AND STABILISATION IN ADDITION TO THOSE SHOWN MAY BE REQUIRED WHERE EXTREME WEATHER EVENTS (I.E. GREATER THAN 32MM) ARE PREDICTED OR FOR EXTENDED SITE SHUT DOWN PERIODS (I.E. CHRISTMAS). ADDITIONAL CONTROLS ARE TO BE IMPLEMENTED UNDER THE ADVICE OF THE SITE ENVIRONMENTAL REPRESENTATIVE AND/OR PROJECT CPESC.

EROSION AND SEDIMENT CONTROLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH BLUE BOOK' SPECIFICATIONS AND STANDARD DRAWINGS AS IDENTIFIED IN THE APPROVED ESCP. AS PER RECOMMENDATIONS UV STABILISED MATERIALS WILL BE USED AS NOT TO BECOME A POLLUTANT SOURCE AND WILL BE PROMPTLY REMOVED ONCE THE CONTRIBUTING CATCHTMENT HAS BEEN PERMANENTLY STABILISED..

THE NSW GOVERNMENT (2022) TECHNICAL GUIDELINE REQUIRES 80% OF THE AVERAGE ANNUAL RUNOFF VOLUME TO ACHIEVE 50MG/L TOTAL SUSPENDED SOLIDS (TSS) OR LESS AND PH IN THE RANGE (6.5-8.5). THE STANDARD BLUE BOOK SEDIMENT BASIN DESIGN AND OTHER STANDARD EROSION AND SEDIMENT CONTROL MEASURES ARE ESTIMATED TO ACHIEVE APPROXIMATELY 60% HYDROLOGICAL EFFECTIVENESS. THEREFORE, IN ORDER TO ACHIEVE 80% HYDROLOGICAL EFFECTIVENESS, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES ABOVE THE STANDARD BLUE BOOK DESIGN HAVE BEEN RECOMMENDED.

SITE PERSONNEL RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENT CONTROLS ARE TO BE APPROPRIATELY TRAINED IN IMPLEMENTATION AND MAINTENANCE OF CONTROL MEASURES.

TOOLBOX TALKS TRAINING SESSIONS ARE TO BE PROVIDED TO SITE PERSONNEL ON THE IMPORTANCE OF EROSION AND SEDIMENT CONTROL, THEIR INDIVIDUAL REQUIREMENTS, SPECIFIC PROJECT SITE CONTROLS TO BE IMLPLEMENTED AND REQUIRED MITIGATION MEASURES,

VEHICULAR ACCESS IS TO BE RESTRICTED TO DESIGNATED ACCESS AREAS AND EXISTING ROADWAYS.

STABILISED SITE ENTRY AND EGRESS WILL BE PROVIDED TO MINIMISE TRACKING OF MATERIAL.

SOIL STRIPPING STOCKPILING ACTIVITIES

TOPSOIL WILL BE STRIPPED AND STOCKPILED IN ACCORDANCE WITH BLUEBOOK STANDARD DRAWING SD 4-1. TOPSOIL MAY BE USED AS A DIRECT PLACEMENT WHEREVER POSSIBLE AND VIABLE.

SOIL STRIPPING AND STOCKPILING IDEALLY, STRIP TOPSOIL WHEN IT IS MOIST, NOT TOO WET OR TOO DRY.

STOCKPILES WILL BE DESIGNED, ESTABLISHED, OPERATED AND DECOMMISSIONED IN ACCORDANCE WITH THE TFNSW TECHNICAL GUIDELINE EMS-TG-010: STOCKPILE SITE MANAGEMENT.

TAKE CARE WHEN STRIPPING TOPSOIL NOT TO STRIP SUBSOIL WITH THE TOPSOIL PROFILE. TOPSOIL AND SUBSOILS SHOULD BE MANAGED SEPARATELY.

AS MUCH AS IS FEASIBLE, MULCHED VEGETATION, TOPSOIL AND SUBSOIL (IF APPLICABLE) ARE TO BE STOCKPILED SEPARATELY.

SOILS ARE TO BE SEGREGATED AND SIGNPOSTED ON SITE (I.E. TOPOSil SUBSOIL, CONTAMINATED MATERIAL) TO PREVENT CROSS CONTAMINATION AND PRESERVE SOIL STRUCTURE AND VIABILITY OF TOPSOIL FOR SITE USE AND MAGEMENT.

STOCKPILES ACTIVITIES ARE TO BE UNDERTAKEN IN DESIGNATED AREAS AWAY FROM TREE DRIP ZONES, CONCENTERATED FLOWS AND DRAINAGE LINES. ADEQUATE CONTROLS (I.E. UPSLOPE DIVERSIONS AND DOWNSLOPE SEDIMENT CONTROLS) ARE TO BE IMPLEMENTED FOR ALL STOCKPILE SITES. STOCKPILES ARE TO BE STABILISED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BLUEBOOK (SECTION 4.3.2.) AND STABILISED / COVERED IN TIMES OF HIGH WINDS.</



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|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 100.    | TEMPORARY DIVERSION DRAINS/BUNDS ARE TO BE STABILISED TO ACHIEVE THE C-FACTORS AS DETAILED IN TABLES 1 AND 2 IN ESCP SHEET 5, USING SEEDING + VITAL P47 + JUTE MESH/MATTING OR ALTERNATIVELY GEOTEXTILE FABRIC, ROCK OR TRM. SUBSOILS ARE TO BE TREATED FIRST BY LIGHTLY RIPPING GYPSUM INTO THE SURFACE AT A RATE OF APPROX. 1.5kg/m <sup>2</sup> . REFER TO THE PLANS FOR SPECIFIC DETAILS. ALSO REFER TO STANDARD DRAWINGS (SD 5-6 AND SD 5-7). REFER TO THE 'SOIL STRIPPING AND STOCKPILING' IN ESCP SHEET 2 NOTES FOR STABILISATION REQUIREMENTS ON STOCKPILES. ALSO REFER TO TABLES 1AND 2 AND STANDARD DRAWING (SD 4-1).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 102.    | SEDIMENT BASIN INLETS/OUTLETS ARE TO BE STABILISED IN ACCORDANCE WITH ENGINEERING DESIGN (WHERE APPLICABLE) OR WITH GEOTEXTILE UNDERLAY AND ROCK IN ACCORDANCE WITH RECOMMENDATIONS FOR 'HIGH FLOW' AREAS ON TABLE 1 AND 2 AS DETAILED ON THE PLAN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 103.    | HIGHLY TRAFFICKED AREAS SUCH AS LAYDOWN/STORAGE AREAS, HAUL ROADS/ACCESS TRACKS AND SITE COMPOUNDS WILL BE FORMED IN ACCORDANCE WITH ENGINEERING SPECIFICATIONS AND STABILISED WHERE NECESSARY AND AS MUCH AS PRACTICABLE TO MINIMISE EROSION AND PROVIDE A TRAFFICABLE SURFACE. STABILISATION OF THESE AREAS WILL BE ACHIEVED WITH SUITABLE TRAFFICABLE MEASURES (E.G. WITH HEAVY BOUND DGB (CEMENT STABILISED), AGGREGATE, CRUSHED ROCK, ROAD BASE OR A HEAVY DUTY TRAFFICABLE SOIL STABILISER AND RE-GRADING/RE-SURFACING AS NECESSARY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 104.    | AS SURFACES ARE STABILISED (AT LEAST 90% OF ANY FINISHED AREA HAS AT LEAST 70% GROUND COVER) AND PERMANENT DRAINAGE MEASURES ARE INSTALLED, TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AND WATER MANAGEMENT STRUCTURES CAN BE REMOVED (E.G. DIVERSION DRAINS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| 105.    | TEMPORARY STABILISATION OF EXPOSED SURFACES ON HIGH RISK AREAS (I.E. STEEP SLOPES (>5%), BATTERS, SURFACES NOT DRAINING TO SEDIMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 106.    | ALL EXPOSED LANDS WHERE WORKS ARE NOT ACTIVELY OCCURRING (FOR 20 DAYS OR MORE) ARE TO BE TEMPORARILY STABILISED WITH A TEMPORARY GROUND COVER (I.E. A SOIL BINDER (E.G. VITAL STONEWALL), MATTING, GEOFABRIC OR EQUIVALENT).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 107.    | WHEREVER POSSIBLE, RE-USE CLEARED/MULCHED VEGETATION FOR EITHER TEMPORARY OR PERMANENT STABILISATION OF DISTURBED AREAS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|         | <b>POND DEWATERING NOTES:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 108.    | DRAIN PONDS OF WATER & DISCHARGE CLEAN WATER TO STORMWATER DRAINAGE SYSTEM (AS PER NOTES 2 & 3) – REFER TO STORMWATER PLANS FOR LOCATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 109.    | DEWATERING TO BE PERFORMED IN SUCH A MANNER AS TO REMOVE CLEAN WATER WITHOUT REMOVING OR DISTURBING SILT, SEDIMENT OR OTHER ORGANIC MATERIAL FROM THE BASE OF THE PONDS. REFER TO NOTE 122 IF CONTAMINATION IS SUSPECTED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 110.    | DISCHARGE OF WATER FROM PONDS TO HAVE A PH RANGE OF 6.5 TO 8.5 AND TSS < 50mg/L (AS PER MRP DCP REQUIREMENTS IN TABLE 5). PONDS TO BE DOSED WITH GYSUM (APPROXIMATELY 30 mg PER CUBIC METRE) TO ACCELERATE SETTLEMENT OR SUSPENDED SOLIDS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 111.    | REMOVE ALL SILT, ORGANIC AND WATER LOGGED MATERIAL FROM BASE OF POND (NOM. DEPTH 0.5 –1.0m) AND DISPOSE OF IN ACCORDANCE WITH THE ACCEPTABLE PRACTICE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 112.    | EXPOSE NATURAL SITE SOILS AND COMPACT SUBGRADE IN ACCORDANCE WITH THE SITE PREPARATION NOTES (REFER TO EROSION AND SEDIMENT CONTROL – SHEET 2) REMOVING ANY SOFT ZONES AS REQUIRED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 113.    | PLACE AND COMPACT FILL AS PER SITE PREPARATION NOTES ON EROSION AND SEDIMENT CONTROL – SHEET 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 114.    | INFORMATION PROVIDED ON THIS DRAWING SHALL BE USED TO GUIDE THE DEVELOPMENT OF THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN THAT SHALL BE IMPLEMENTED DURING CONSTRUCTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 115.    | WHERE POSSIBLE DEWATERING WILL BE AVOIDED WHERE DAYTIME TEMPERATURE IS GREATER THAN 35 DEGREE, DURING RAINFALL MORE THAN 20MM IN 24 HOURS AND THREE DAYS PRIOR TO A RAINFALL EVENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 116.    | WATER QUALITY DISCHARGE FROM DEWATERING WILL BE IN ACCORDANCE WITH PROJECT WATER QUALITY REQUIREMENTS AS DETAILED IN THE MRP DCP. ADDITIONALLY, WATER QUALITY WILL BE REVIEWED AND APPROVAL BY EITHER AN ENVIRONMENTAL SITE REPRESENTATIVE OR THE ENDORSED CPESC PRIOR TO DISCHARGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 117.    | DISCHARGE VELOCITIES WILL BE MANAGED TO BE NON-EROSIVE AND TO A STABLE LOCATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 118.    | WHERE POSSIBLE WATER WILL BE USED FOR SITE ACTIVITY, (DUST CONTROL /COMPACTION) WHERE REASONABLE AND FEASIBLE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|         | <b>SOIL MANAGEMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 119.    | EXCAVATIONS DEEPER THAN ONE METER WILL BE BACKFILLED IN THE SAME ORDER, OR TREAT OR USE THIS MATERIAL AS FILL AT DEPTHS MORE THAN ONE METER FROM THE FINISHED LEVEL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 120.    | ALL TOPSOIL WILL BE REUSED ON THE SITE UNLESS IT IS NOT PHYSICALLY POSSIBLE OR WHERE SOIL TESTING AND / OR CLASSIFICATION PROHIBITS REUSE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 121.    | TRENCHING EXCAVATIONS WILL BE UNDERTAKEN IN ACCORDANCE WITH THE STANDARD DIAGRAMS AND IDENTIFIED IN THIS ESCP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|         | <b>CONTAMINATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 122.    | WORKS WILL CEASE SHOULD SUSPECTED CONTAMINATION BE IDENTIFIED. INDICATORS OF CONTAMINATION INCLUDE DISCOLOURED SOIL, ANTHROPOGENIC FILL MATERIAL, ASBESTOS, STRONG CHEMICAL OR PETROL ODOURS AND LEACHATE. CONTAIN DISTURBED MATERIAL ON AN IMPERMEABLE SURFACE AND CORDON AREAS OFF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 123.    | UPON IDENTIFICATION OF CONTAMINATION, THE FORMAL NOTIFICATION PROCESS IDENTIFIED IN THE CEMP WILL BE FOLLOWED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|         | <b>ACCESS CONTROLS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 124.    | ROADS WILL BE MONITORED FOR TRACKING OF MATERIAL FROM SITE. ANY MATERIAL IDENTIFIED WILL BE REMOVED THROUGH STREET SWEEPERS, WATERCARTS OR HAND METHODS AT THE END OF EACH WORKING DAY AND IMMEDIATELY BEFORE FORECAST RAINFALL EVENTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 125.    | A STABLE ACCESS WITH A WHEEL WASH AND TYRE CONTROLS (I.E. AGGREGATE / CATTLE GRID) WILL BE IMPLEMENTED AT FILL EXIT AREAS WHERE THERE IS THE POTENTIAL TO CAUSE TRACKING ON MAMRE ROAD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|         | <b>FLOODING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 126.    | DURING CONSTRUCTION, WEATHER WILL BE RAINFALL EVENTS AND PROJECT ACTIVITIES WILL BE PLANNED APPROPRIATELY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 127.    | IN THE INSTANCE THAT THERE IS FORECASTED RAINFALL GREATER THAN 20MM (80% CHANCE) OR A FLOODING EVENT, EXPOSED AREAS WILL BE STABILISED. THE SITE WILL BE INSPECTED TO ENSURE THAT ALL ERSED AND STABILISATION CONTROLS ARE IN PLACE AND IN EFFECTIVE WORKING ORDER. ALL WORKS WILL CEASE IN THE VICINITY OF FLOOD PRONE AREAS AND LOOSE MATERIAL MOVED OR CONSOLIDATED AND COMPACTED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 128.    | IF THERE IS A POSSIBILITY THAT WORK SITES COULD BE FLOODED, TAKE ACTION TO PREVENT ANY ENVIRONMENTAL INCIDENTS SUCH AS POTENTIAL POLLUTION INCIDENTS AND PROTECTING DISTURBED GROUND FROM EROSION, INCLUDING RELOCATING ALL MATERIALS THAT COULD CAUSE HARM ONTO HIGHER GROUND AND AWAY FROM FLOOD PRONE AREAS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 129.    | FOLLOWING HEAVY RAINFALL AND FLOOD EVENTS, DRAINAGE PATHWAYS WILL BE INSPECTED FOR DEBRIS AND OBSTRUCTIONS. RESTORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 130.    | STABILISATION OF AREAS IS TO OCCUR PROGRESSIVELY IN CONJUNCTION WITH THE COMPLETION OF EARTHWORKS. THE PREFERRED METHOD OF STABILISATION IS TO IMPLEMENT FILL (ULTIMATE) STABILISATION, SUCH AS LANDSCAPING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 131.    | TEMPORARY STABILISATION MEASURES MAY INCLUDE POLYMER, FABRIC APPLICATION, TEMPORARY GROUNDCOVER OR SIMILAR METHODS AND WILL BE DETERMINED DURING CONSTRUCTION IN CONSULTATION WITH THE PROJECT CPSEC FOR COMPLIANCE EITH THE BLUEBOOK REQUIREMENTS AND STAGING REQUIREMENTS FOR THE PROJECT. REFER TO STABILISATION NOTES IN ESCP SHEET 2 'STABILISATION.'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 132.    | A MAXIMUM AREA OF 65HA WILL BE EXPOSED AT ANY ONE TIME.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 133.    | UPON STABILISATION OF SURFACES CONTROLS WILL BE REMOVED TO RESTORE NATURAL DRAINAGE AND TOPOGRAPHY, INCLUDING REMOVINGTRAPPED SEDIMENT IN DRAINAGE LINES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 134.    | ALL DISTURBED AREAS THAT ARE INACTIVE/SHUTDOWN (WORKS MAY CONTINUE LATER) FOR MORE THAN 20 DAYS SHALL BE STABILISED TO PREVENT EROSION, MEASURES SHOULD BE PUT IN PLACE TO ACHIEVE 60%GROUND COVER (OR EQUIVALENT).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 135.    | ALL DISTURBED AREAS WHERE WORKS ARE COMPLETE SHALL BE PROGRESSIVELY STABILISED AND/OR REVEGETATED WITH THE AIM THAT WITHIN 60 DAYS NO AREAS REMAIN EXPOSED TO POTENTIAL EROSION DAMAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 136.    | PRIOR TO EACH RAINFALL EVENT;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 149(a). | INSPECTION/S WILL BE CONDUCTED TO ENSURE CONCENTRATED STORMWATER FLOW PATHS ARE PROVIDED WITH CAPACITY FOR THE 10% AEP CRITICAL DURATION EVENT AND DO NOT CAUSE WATER CONTAMINATION, RILL OR GULLY EROSION, SEDIMENTATION OR DAMAGE TO STRUCTURES OR PROPERTY FOR AT LEAST THAT EVENT FREQUENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 149(b). | ENSURE EACH BASIN HAS SUITABLE ACCESS TO ALLOW FOR MAINTENANCE IMMEDIATELY FOLLOWING A RAINFALL EVENT, INCLUDING FOR SEDIMENT REMOVAL, DEWATERING AND WATER TREATMENT;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 149(c). | INSPECTIONS OF SEDIMENT BASIN TREATMENT DEVICES (I.E.INLETS, DOSING UNITS, AND FLOCCULANT (TURBIDCLEAR ACH OR SIMILAR) TO ENSURE THEY ARE IN A STATE TO TREAT WATER AFTER AN EVENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|         | <b>EROSION HAZARD AND BASIN ASSESSMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 150.    | A =R x K x Ls x C x P<br>WHERE<br>R: 2500 (SOURCED FROM APPENDIX B OF THE BLUE BOOK)<br>K: 0.0456 (BASED ON SOIL DATA FOR THE BLACKTOWN AND LUDDENHAM SOIL LANDSCAPES)<br>SL: UP TO 80M MAX.<br>C: SITE 2-8% AVERAGE/MAX. VALUES) LS:1.76.<br>S: 1.0 (CONSTRUCTION STAGE - I.E. NO SOIL SURFACE PROTECTION OR GROUND COVER APPLIED)<br>P = EROSION CONTROL PRACTICE FACTOR P: 1.3 (FOR GENERAL CONSTRUCTION AREAS)<br>THE IFD: 2YEAR, 6HOUR STORM INTENSITY = 9.13MM/HR (BOM)<br>5-DAY, 85TH %ILE RAINFALL DEPTH = 34.4MM - BASED ON AN AVERAGE OF THE RAINFALL DEPTHS FOR BLACKTOWN, LIVERPOOL, PENRITH AND WALLACIA PROVIDED WITHIN THE BLUE BOOK<br>E VOLUMETRIC RUNOFF COEFFICIENT (CV) = 0.64 (ASSUMING HYDROLOGIC GROUP D RUNOFF COEFFICIENT - LOW INFILTRATION, HIGH RUNOFF).<br>RUNOFF COEFFICIENT (C10) = 0.7.<br>FIRST TIME OF CONCENTRRATION PER CATCHMENT:<br>AB1 - 0.204<br>AB2 - 03535<br>AB3 - 0.298<br>SEDIMENT DENSITY - 1.3<br>1 YEAR tc (m3/s) PER CATCHMENT<br>AB1 - 0.27<br>AB2 - 0.859<br>AB3 - 0.601<br>BASED ON THE ABOVE DATA, THE POTENTIAL SOIL LOSS FOR EACH CATCHMENT IS PROVIDED BELOW:<br>• 85 T/Ha/YR FOR BASIN AB1<br>• 85 T/Ha/YR FOR BASIN AB2<br>• 85 T/Ha/YR FOR BASIN AB3 |  |
|         | <b>HOLD POINTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 151.    | ASSESSMENT OF SUITABILITY OF EROSION AND SEDIMENT CONTROL PLAN BY PROJECT CPESC FOR EACH STAGE AND/OR SECTION OF THE WORKS WHERE REQUIRED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 152.    | INSTALLATION OF APPROPRIATE EROSION AND SEDIMENT CONTROLS IN EACH SECTION OF THE WORKS BY BURTON CONTRACTORS UNDER THE DIRECTION OF THE CPESC. PRIOR TO EARTHWORKS AND/OR SUBSEQUENT STAGE, THE ER WILL REVIEW AND APPROVE CONTROLS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |



| DURING CONSTRUCTION - TEMPORARY STABILISATION<br>(DURING PERIODS OF INACTIVITY WHEN WORKS ARE ON HOLD) |                                                                                      |                                                                                                            |                                                                          |                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LANDS                                                                                                  | STABILISATION REQUIREMENT                                                            | TIMEFRAME                                                                                                  | TREATMENT METHODS - PRODUCTS                                             | REMARKS                                                                                                                                                                                                                    |
| HIGH RISK AREAS SOIL LOSS CLASS 6 OR ABOVE LANDS (WHERE APPLICABLE)                                    | C-FACTOR = 0.1 (60% GRASS COVER OR EQUIVALENT GROUND COVER)                          | APPLIES PRIOR TO RAINFALL AND AFTER 10 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER) | SOIL BINDER (ie: VITAL P47/STONEWALL OR EQUIVALENT)                      | -STABLISE ALL EXPOSED SOILS BY SPARYING SURFACES WITH VITAL P47/STORMWATER OR EQUIVALENT'.<br>-VITAL DILUTION RATE = 1 : 10 (VITAL MIXTURE).<br>- RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED. |
|                                                                                                        |                                                                                      |                                                                                                            | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT¹ | - COVER ALL EXPOSED SOILS.<br>-RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                    |
|                                                                                                        |                                                                                      |                                                                                                            | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT¹ | - COVER ALL EXPOSED SOILS.<br>-RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                    |
| ALL LANDS (INCLUDING WATERWAYS AND STOCKPILES)                                                         | APPLIES AFTER 20 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER) | APPLIES AFTER 20 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER)                       | SOIL BINDER (ie VITAL P47/STONEWALL OR EQUIVALENT¹                       | -SPRAY ALL STOCKPILE SURFACES WITH VITALP47/STONEWALL OR EQUIVALENT¹ -VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>-APPLICATION RATE = 1L/m² OF DILUTED VITAL MIXTURE                                                      |
|                                                                                                        |                                                                                      |                                                                                                            | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED)                | - COVER ALL EXPOSED SOILS.<br>- E-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                  |

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|       |                                    |          |
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24 |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24 |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24 |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24 |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-24 |
| A     | INITIAL SUBMISSION                 | 18-04-24 |
| Issue | Description                        | Date     |

100mm on Original

| TABLE 2 - STABILISATION REQUIREMENTS AND TREATMENT METHODS CONTINUED |                                                                            |                                                                                                                               |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| POST CONSTRUCTION                                                    |                                                                            |                                                                                                                               |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| LANDS                                                                | STABILISATION REQUIREMENT                                                  | TIMEFRAMES                                                                                                                    | TREATMENT METHODS PRODUCTS                                                                                                                           | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| WATERWAYS, DRAINAGE LINES AND CONCENTRATED FLOW AREAS                | C-FACTOR = 0.05 (70% GRASS COVER OR EQUIVALENT GROUND COVER¹)              | APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY CONCENTRATED FLOWS.           | REFER TO THE DRAIN SPECIFICATIONS DETAILED ON THE PLAN FOR SPECIFIC LINING/STABILISATION REQUIREMENTS.<br>EXAMPLE TREATMENT METHODS ARE SHOWN BELOW. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                      |                                                                            |                                                                                                                               | TEMPORARY LINING - GEOTEXTILE (ie. BIDIM A24 OR EQUIVALENT¹)                                                                                         | - COMPLETE ANY SUBSOIL TREATMENT BEFORE LAYING THE MATTING.<br>-INSTALL MATTING IN ACCORDANCE WITH SD 5-7<br>-RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                      |                                                                            |                                                                                                                               | JUTE MESH, SEEDING AND SOIL BINDER (ie VITAL P47/STONEWALL OR EQUIVALENT¹)<br>- LOW FLOWS                                                            | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING¹.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- WATERWAYS AND (50% GRASS COVER OR¹ OF INACTIVITY LEVEN THOUGH MONTHS-<br>- VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.        |
|                                                                      |                                                                            |                                                                                                                               | JUTE MATTING ( 350gsm) AND SEEDING OR EQUIVALENT¹<br>- LOW TO MODERATE FLOWS                                                                         | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING¹.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- WATERWAYS AND (50% GRASS COVER OR¹ OF INACTIVITY LEVEN THOUGH MONTHS-<br>- VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.        |
|                                                                      |                                                                            |                                                                                                                               | - TURN REINFORCEMENT MATTING (TRM) (e.g TERRAMAT OR EQUIVALENT¹) (TRN) -MODERATE FLOWS                                                               | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.                                                                                                                                                                                                                                                                                                               |
| STOCKPILES                                                           | C-FACTOR = 0.10 / 0.05 (60% GRASS COVER OR EQUIVALENT GROUND COVER¹)       | APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION                                                                    | ROCK LINING<br>- HIGH FLOWS                                                                                                                          | -COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.                                                                                                                                                                                                                                                                                                               |
|                                                                      |                                                                            |                                                                                                                               | SEEDING AND SOIL BINDER (ie VITAL P47/ STONEWALL OR EQUIVALENT¹)                                                                                     | - APPLY SEED TO ALL STOCKPILE SURFACES (NOTE: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT).<br>- SPRAY ALL STOCKPILE SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- VITAL DILUTION RATE = 1L / m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.                                                                                                                                                                                                                                                                                                                              |
|                                                                      |                                                                            |                                                                                                                               | GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT¹                                                                             | - COVER ALL EXPOSED SOILS.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| GENERAL SURFACES                                                     | C-FACTOR = 0.10 / 0.05 (60% / 70% GRASS COVER OR EQUIVALENT GROUND COVER¹) | C-FACTOR = 0.1 APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND C-FACTOR= 0.05 APPLIES WITHIN A FURTHER 60 DAYS | TOPSOIL, SEEDING AND SOIL BINDER (ie VITAL P47/STONEWALL OR EQUIVALENT¹)                                                                             | -REFER TO SD 7-1<br>-COMPLETE SUBSOIL TREATMENT (ie GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- APPLY ANY FERTILISERS REQUIRED.<br>- APPLY SEED TO ALL SURFACES (Note: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED. |
|                                                                      |                                                                            |                                                                                                                               | HYDROMLUCH OR EQUIVALENT¹                                                                                                                            | -REFER TO SD 7-1<br>-COMPLETE SUBSOIL TREATMENT (ie GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha).<br>TESTING TO CONFIRM TREATMENT RATES.<br>- PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM.<br>- APPLY ANY FERTILISERS REQUIRED.<br>- APPLY SEED TO ALL SURFACES (Note: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT.<br>- INSTALL MATTING IN ACCORDANCE WITH SD 5-7.<br>- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT¹.<br>- VITAL DILUTION RATE = 1:10 (VITAL WATER).<br>- APPLICATION RATE = 1L / 7m² OF DILUTED VITAL MIXTURE.<br>- RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED. |

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Existing topography and dams (Source: Extract from Biosis, 2021)



| Stage                              | Works Activity                                     | Proposed Control                                                                                                                    |
|------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 0 - Site Establishment.            | Establishment of Site facilities.                  | Perimeter controls, site construction access and use of existing fam dams for sediment control.                                     |
| 1 - Sediment control establishment | Infilling of dams A, B and C                       | Establishment of HES basins and diversion berms for site water control progressively replacing existing farm dams                   |
|                                    | Establishment of HES basins as per ESCP            |                                                                                                                                     |
|                                    | Stripping of topsoil                               |                                                                                                                                     |
|                                    | Stockpiling                                        |                                                                                                                                     |
| 2 -Estate Civil works              | Roadways and bulk earthworks within lot boundaries | Construction of on lot detention areas, implemetnation of road drainage and pit inlet controls                                      |
| 3 - Site Finishing                 | Landscaping and bioswale implementation            | Removal of basins and boundary controls following stabilisation of site areas and landscaping. Retention of on lot detention areas. |

|       |                                    |          |
|-------|------------------------------------|----------|
|       |                                    |          |
|       |                                    |          |
|       |                                    |          |
|       |                                    |          |
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24 |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24 |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24 |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24 |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-24 |
| A     | INITIAL SUBMISSION                 | 18-04-24 |
| Issue | Description                        | Date     |



Client

**BURTON**  
Civil Engineering Contractors

Scales

N/A

Drawn

BC

Designed

BC

Grid

MGA94 ZONE 56

Height Datum

AHD

Checked

BC

Approved

THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY

Project

ACCESS LOGISTIC PARK

Title

EROSION AND SEDIMENT CONTROL PLAN –  
EXISTING CONTOUR- SHEET 5

OCHRE ENVIRONMETAL MANAGEMENT



PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830

Status

INITIAL SUBMISSION

Project No. - Drawing No.

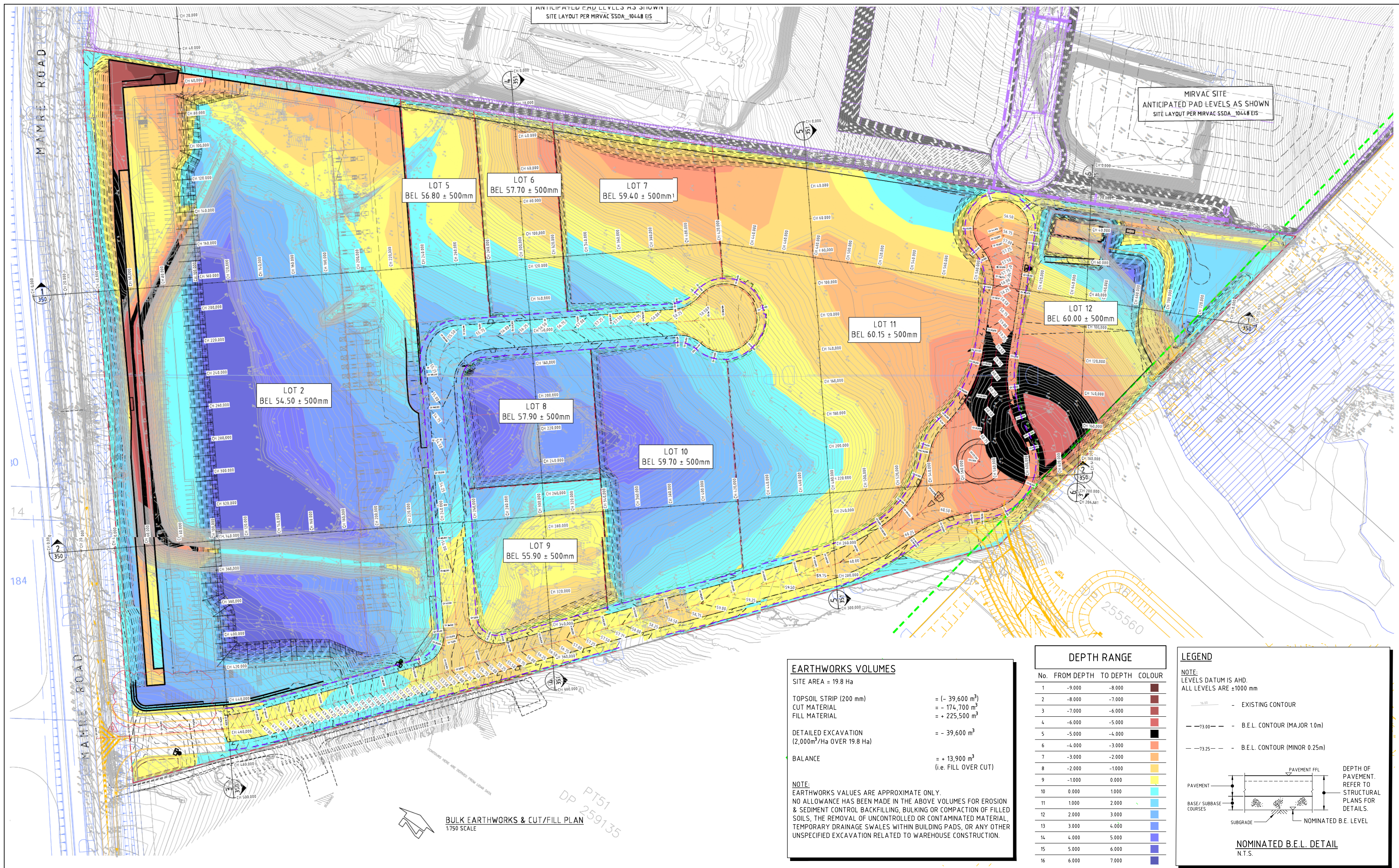
P104\_ALTIS\_SSD17647189-ESC

F

Issue

1





|       |                                    |          |
|-------|------------------------------------|----------|
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24 |
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| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-24 |
| A     | INITIAL SUBMISSION                 | 18-04-24 |
| Issue | Description                        | Date     |

100mm on Original



Client

**BURTON**  
Civil Engineering Contractors

Scales N/A

Grid MGA94 ZONE 56

Height Datum AHD

THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY  
BURTON CONTRACTORS ONLY

Drawn BC

Designed BC

Checked BC

Approved

Project  
ACCESS LOGISTIC PARK

Title  
EROSION AND SEDIMENT CONTROL PLAN –  
FINAL CUT/FILL - SHEET 6

OCHRE ENVIRONMENTAL MANAGEMENT



PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830

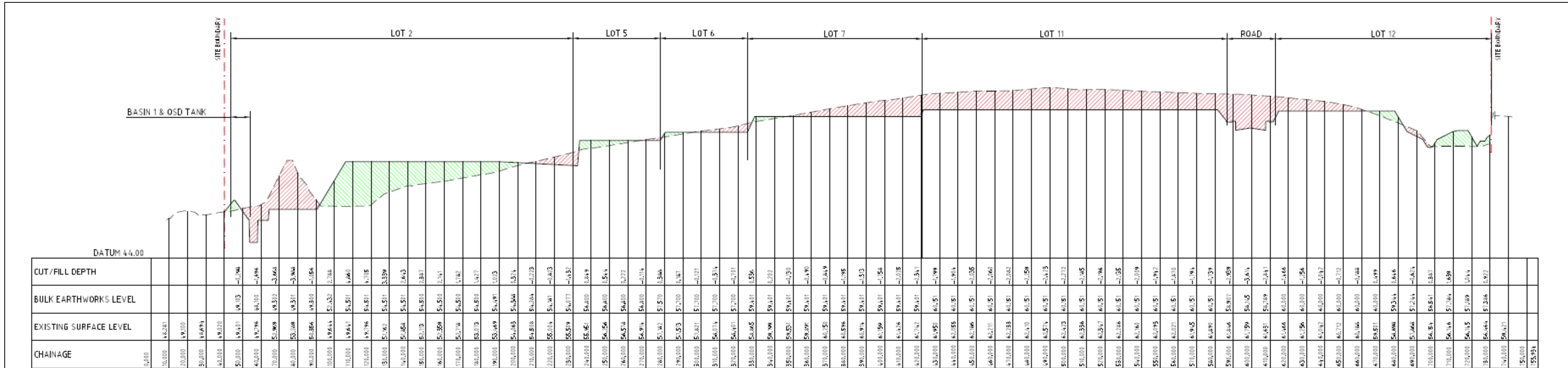
Status  
INITIAL SUBMISSION

Project No. - Drawing No.  
P104\_ALTIS\_SSD17647189-ESC

F

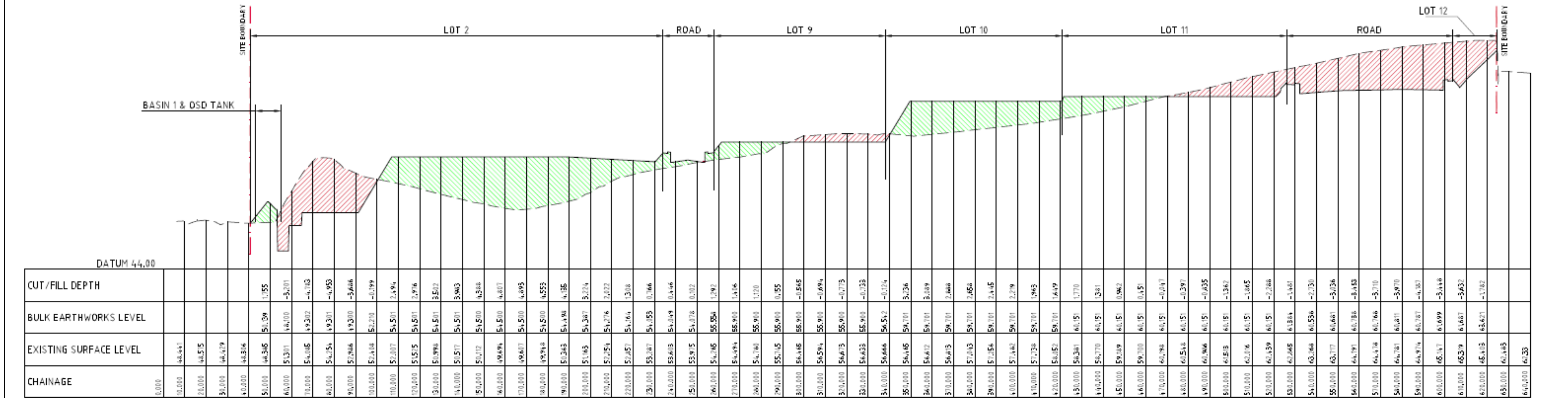
Issue  
1





SECTION 1

| LEGEND: |                                          |
|---------|------------------------------------------|
|         | - DENOTES BULK EARTHWORKS PROFILE        |
|         | - DENOTES MIRVAC BULK EARTHWORKS PROFILE |
|         | - DENOTES EXISTING PROFILE               |
|         | - DENOTES AREA IN CUT                    |
|         | - DENOTES AREA IN FILL                   |



SECTION 2

| Issue | Description                        | Date     |
|-------|------------------------------------|----------|
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24 |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24 |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24 |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24 |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-24 |
| A     | INITIAL SUBMISSION                 | 18-04-24 |



Client

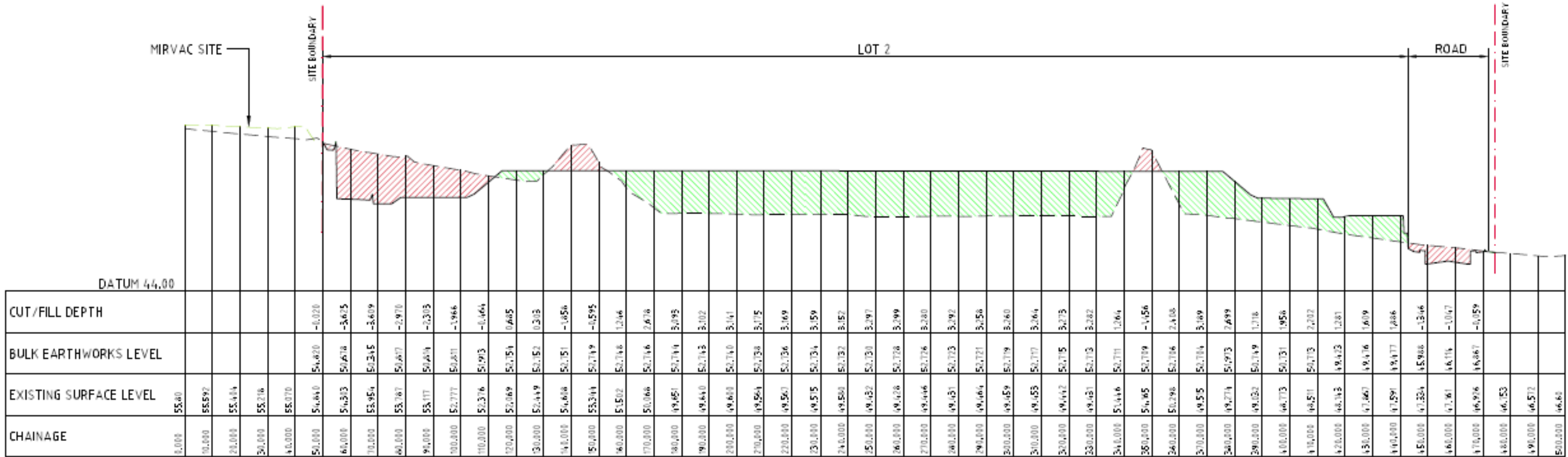


|              |               |          |    |
|--------------|---------------|----------|----|
| Scales       | N/A           | Drawn    | BC |
| Grid         | MGA94 ZONE 56 | Designed | BC |
| Height Datum | AHD           | Checked  | BC |
|              |               | Approved |    |

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|         |                                                                 |
|---------|-----------------------------------------------------------------|
| Project | ACCESS LOGISTIC PARK                                            |
| Title   | EROSION AND SEDIMENT CONTROL<br>PLAN - CROSS-SECTIONS - SHEET 7 |

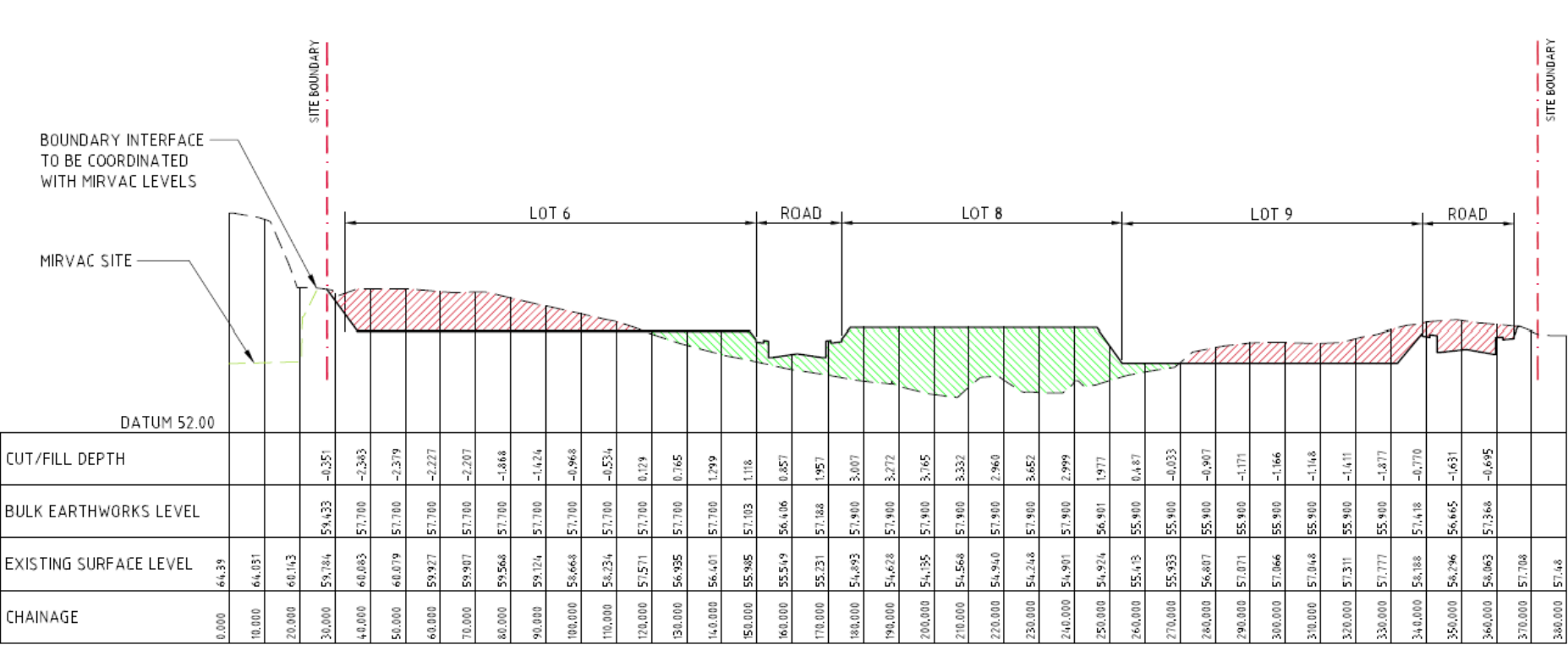
|                                                                                                                                                                 |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| OCHRE ENVIRONMENTAL MANAGEMENT                                                                                                                                  |                            |
|  PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407762830 |                            |
| Status                                                                                                                                                          | INITIAL SUBMISSION         |
| Project No. - Drawing No.                                                                                                                                       | P104_ALTIS_SSD17647189-ESC |
| Issue                                                                                                                                                           | 1                          |



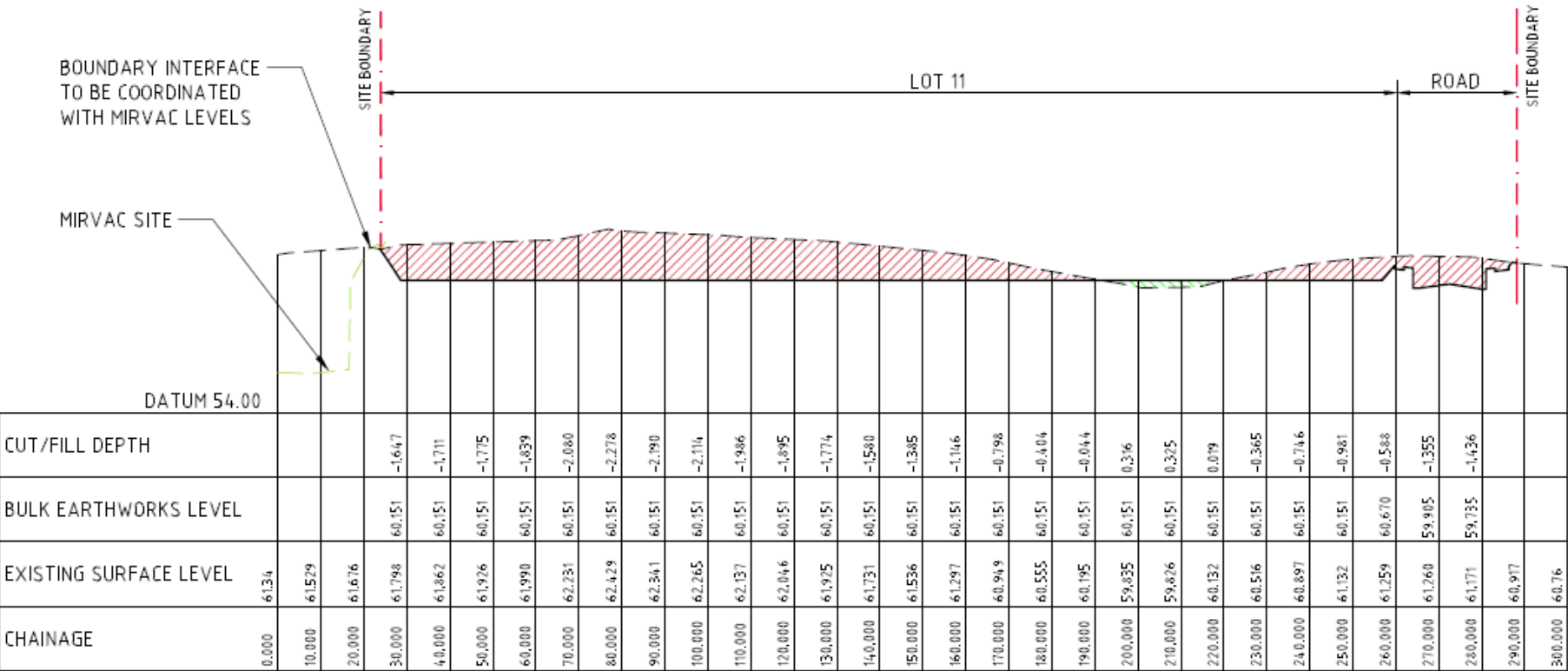
LEGEND:

- DENOTES BULK EARTHWORKS PROFILE
- DENOTES MIRVAC BULK EARTHWORKS PROFILE
- DENOTES EXISTING PROFILE
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL

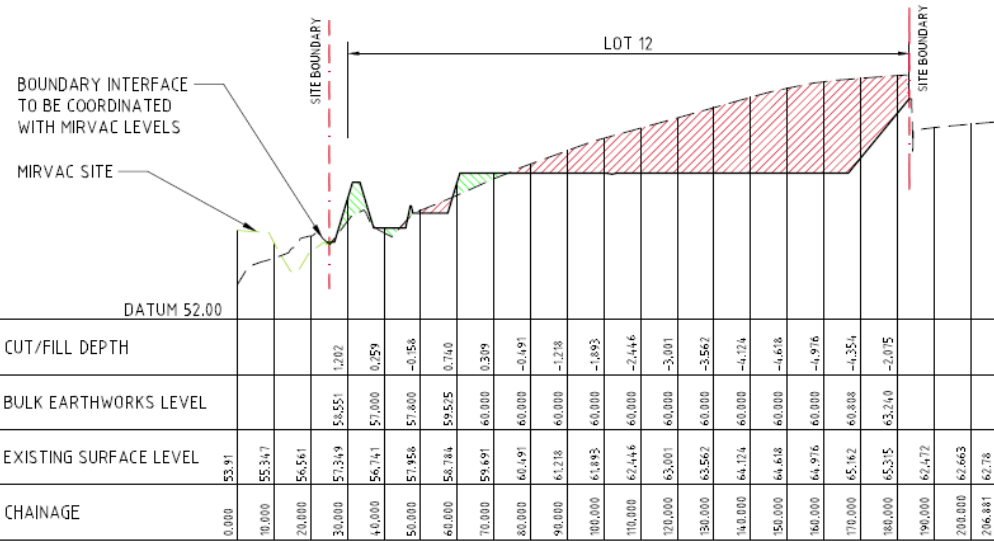
SECTION 3



SECTION 4



SECTION 5



SECTION 6

| Issue | Description                        | Date     |
|-------|------------------------------------|----------|
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24 |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24 |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24 |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24 |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-24 |
| A     | INITIAL SUBMISSION                 | 18-04-24 |



Client

**BURTON**  
Civil Engineering Contractors

Scales N/A

Grid MGA94 ZONE 56

Height Datum AHD

THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY

Drawn BC

Designed BC

Checked BC

Approved

Project

ACCESS LOGISTIC PARK

Title

EROSION AND SEDIMENT CONTROL

PLAN - CROSS-SECTIONS - SHEET 8

OCHRE ENVIRONMENTAL MANAGEMENT



PO Box 70  
Kurralong, NSW 2758  
ABN 16 640 756 038  
Tel: 0407782830

Status  
INITIAL SUBMISSION

Project No. - Drawing No.

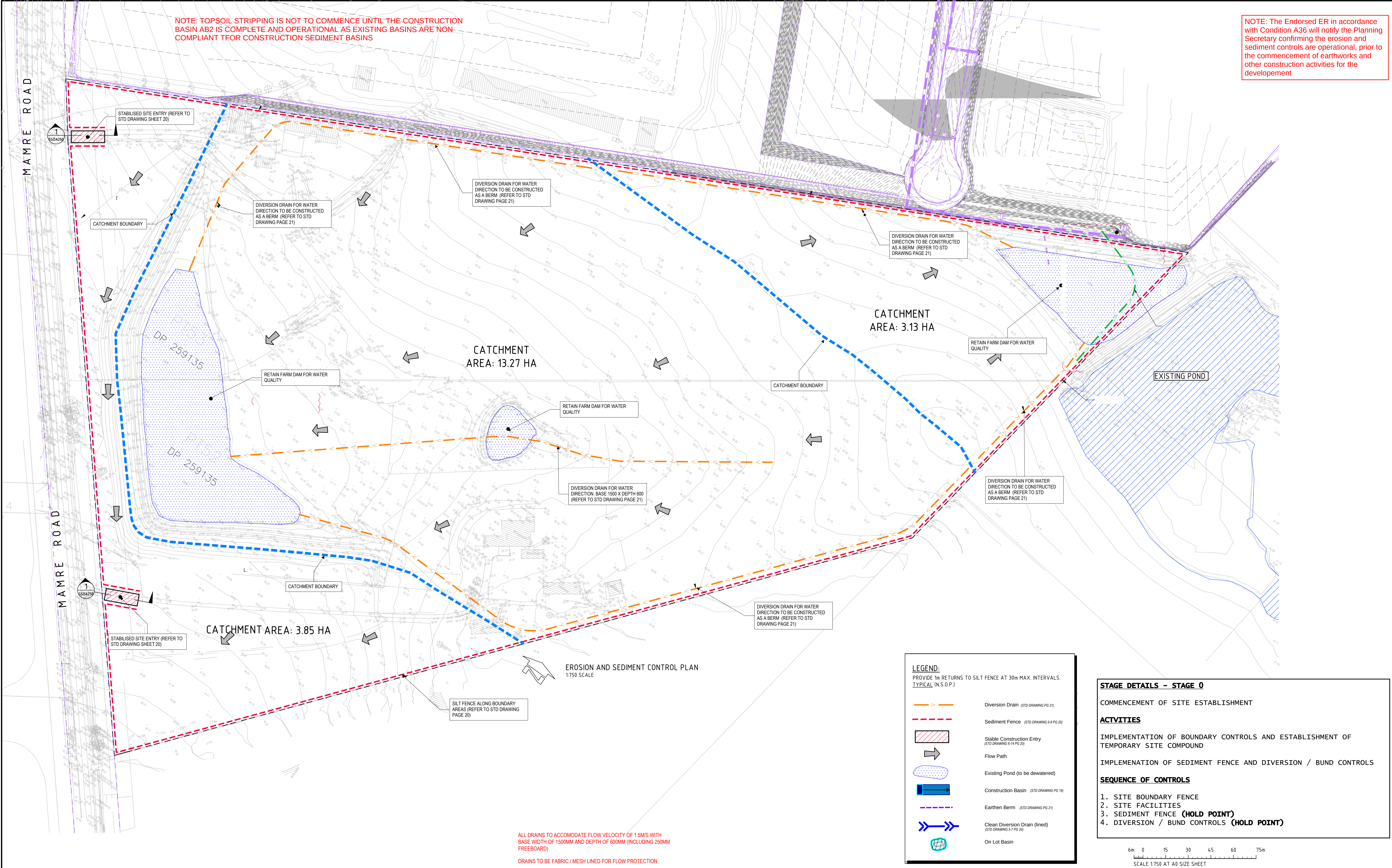
P104\_ALTIS\_SSD17647189-ESC

F

Issue

1





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|       |                                    |            |
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24   |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24   |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24   |
| C     | UPDATED TO ADDRESS COMMENTS        | 31-05-24   |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-2024 |
| A     | INITIAL SUBMISSION                 | 18-04-2024 |
| Issue | Description                        | Date       |

Bar Scales  
Approx

6m 0 15 30 45 60 75m  
SCALE 1:750 AT A0 SIZE SHEET

Key Plan

Client

**BURTON**  
Civil Engineering Contractors

Scales

N.T.S

Grid MGA94 ZONE 56

Height Datum AHD

THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY

|          |    |
|----------|----|
| Drawn    | BC |
| Designed | BC |
| Checked  | BC |
| Approved |    |

Project

ACCESS LOGISTIC PARK

Title

EROSION AND SEDIMENT CONTROL PLAN -- ESTABLISHMENT - SHEET 9

OCHRE ENVIRONMETAL MANAGEMENT

**OCHRE**  
Environmental Management

PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830  
www.ochreenvironmental.com.au

|                           |                            |         |
|---------------------------|----------------------------|---------|
| Status                    | INITIAL SUBMISSION         | F       |
| Project No. - Drawing No. | P104_ALTIS_SSD17647189-ESC | Issue 1 |

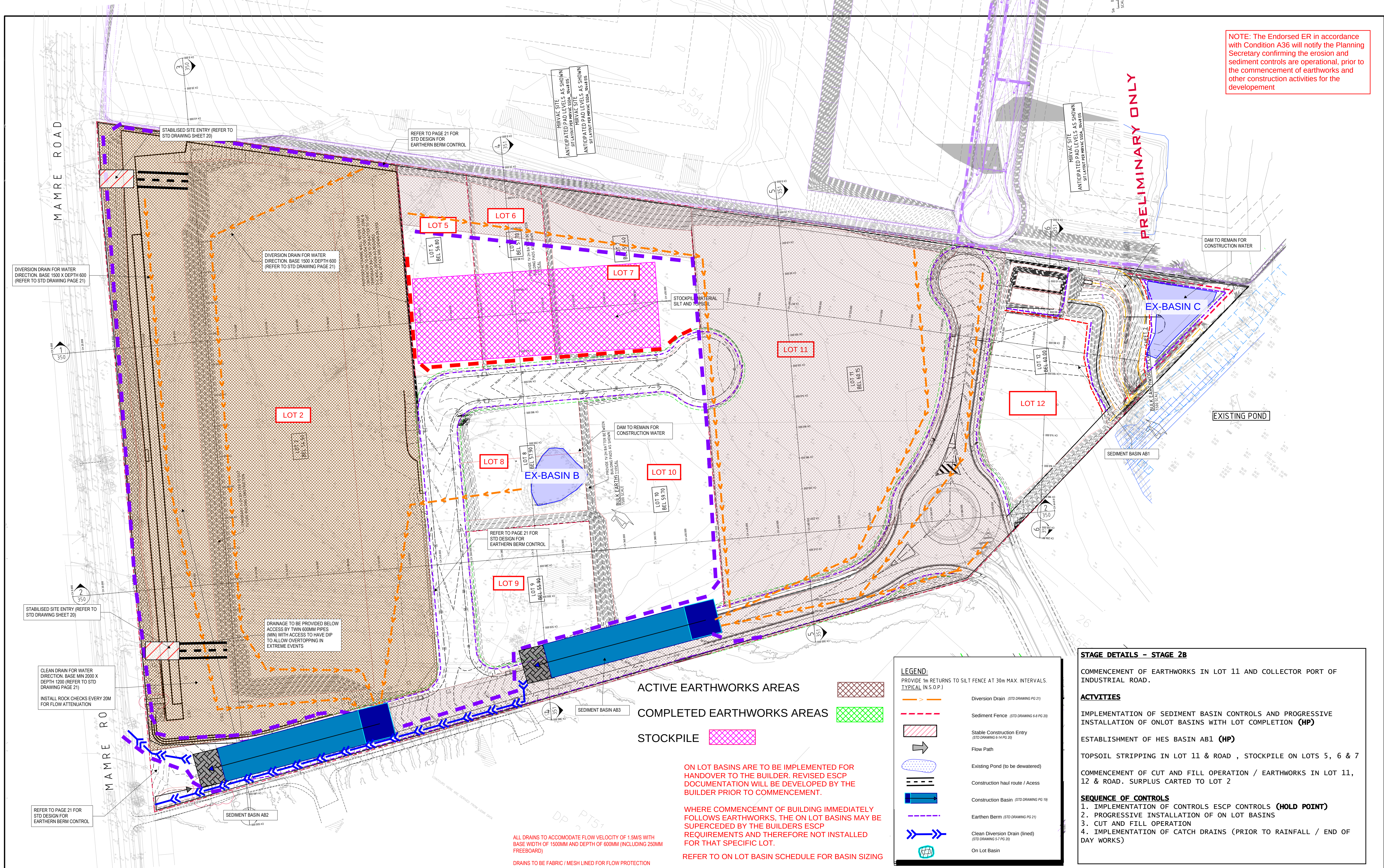












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|----------------------|--|----------|--|-----------------------------------------|--|-------------------------------------------------------------------------------------------|--|-------|--|---------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|--|
| Bar Scales<br>Approx |  | Key Plan |  | Client                                  |  | Scales                                                                                    |  | Drawn |  | Project                                                       |  | OCHRE ENVIRONMETAL MANAGEMENT                                                                              |  |
| 29-07-24             |  |          |  | BURTON<br>Civil Engineering Contractors |  | N.T.S                                                                                     |  | BC    |  | ACCESS LOGISTIC PARK                                          |  | PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407782830<br>www.ochreenvironmental.com.au |  |
| 14-06-24             |  |          |  |                                         |  | Grid MGA94 ZONE 56                                                                        |  | BC    |  |                                                               |  |                                                                                                            |  |
| 05-06-24             |  |          |  |                                         |  | Height AHD                                                                                |  | BC    |  |                                                               |  |                                                                                                            |  |
| 30-04-2024           |  |          |  |                                         |  | Datum                                                                                     |  |       |  | Title                                                         |  | Status                                                                                                     |  |
| 18-04-2024           |  |          |  |                                         |  | THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |  |       |  | EROSION AND SEDIMENT CONTROL<br>PLAN -- EARTHWORKS - SHEET 12 |  | INITIAL SUBMISSION                                                                                         |  |
|                      |  |          |  |                                         |  |                                                                                           |  |       |  | Project No. - Drawing No.                                     |  | F                                                                                                          |  |
|                      |  |          |  |                                         |  |                                                                                           |  |       |  | P104_ALTIS_SSD17647189-ESC                                    |  | Issue                                                                                                      |  |
|                      |  |          |  |                                         |  |                                                                                           |  |       |  |                                                               |  | 1                                                                                                          |  |





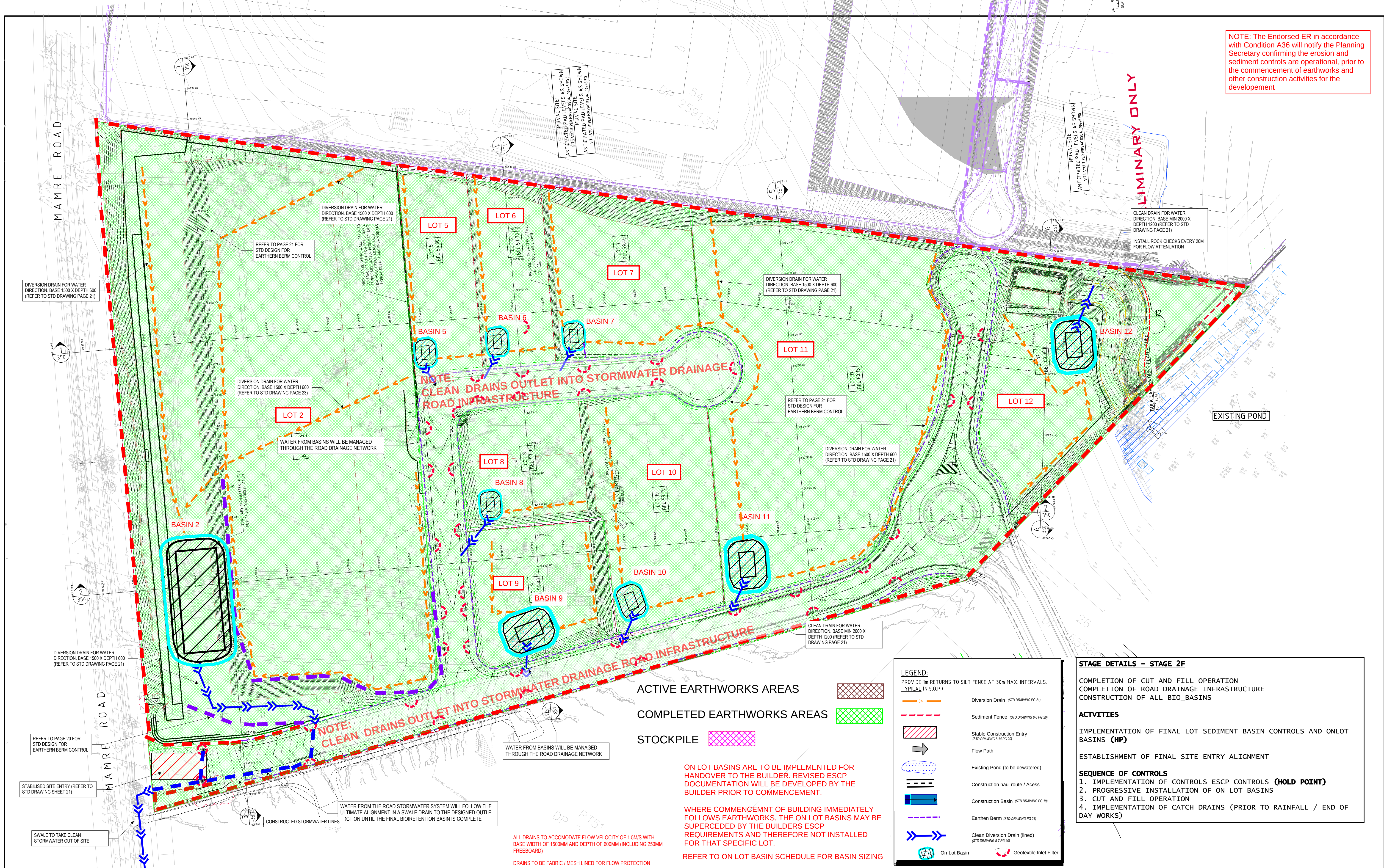












|                      |  |                                    |  |                                         |  |                                                                                           |  |          |  |                                                            |  |                                                                                                            |  |
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| Bar Scales<br>Approx |  | Key Plan                           |  | Client                                  |  | Scales                                                                                    |  | Drawn    |  | Project                                                    |  | OCHRE ENVIRONMENTAL MANAGEMENT                                                                             |  |
| 100mm on Original    |  |                                    |  | BURTON<br>Civil Engineering Contractors |  | N.T.S                                                                                     |  | BC       |  | ACCESS LOGISTIC PARK                                       |  | PO Box 70<br>Kurrajong, NSW 2758<br>ABN 18 640 756 038<br>Tel: 0407782830<br>www.ochreenvironmental.com.au |  |
| F                    |  | UPDATED TO PAGE 11 DIVERSION DRAIN |  |                                         |  | Grid MGA94 ZONE 56                                                                        |  | Designed |  | BC                                                         |  |                                                                                                            |  |
| E                    |  | UPDATED TO ADDRESS COMMENTS        |  |                                         |  | Height Datum                                                                              |  | Checked  |  | BC                                                         |  |                                                                                                            |  |
| D                    |  | UPDATED TO ADDRESS COMMENTS        |  |                                         |  | AHD                                                                                       |  | Approved |  |                                                            |  |                                                                                                            |  |
| C                    |  | UPDATED TO ADDRESS COMMENTS        |  |                                         |  | THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |  |          |  | Title                                                      |  | Status                                                                                                     |  |
| B                    |  | UPDATED TO ADDRESS COMMENTS        |  |                                         |  |                                                                                           |  |          |  | EROSION AND SEDIMENT CONTROL PLAN -- EARTHWORKS - SHEET 16 |  | INITIAL SUBMISSION                                                                                         |  |
| A                    |  | INITIAL SUBMISSION                 |  |                                         |  |                                                                                           |  |          |  | Project No. - Drawing No.                                  |  | F                                                                                                          |  |
| Issue                |  | Description                        |  |                                         |  |                                                                                           |  |          |  | P104_ALTIS_SSD17647189-ESC                                 |  | Issue                                                                                                      |  |
|                      |  |                                    |  |                                         |  |                                                                                           |  |          |  |                                                            |  | 1                                                                                                          |  |



**NOTE:** The Endorsed ER in accordance with Condition A36 will notify the Planning Secretary confirming the erosion and sediment controls are operational, prior to the commencement of earthworks and other construction activities for the development

**EROSION AND SEDIMENT CONTROL PLAN**  
1:750 SCALE

**LEGEND:**  
PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.)

- Dirty Diversion Drain (STD DRAWING PG 21)
- Sediment Fence (STD DRAWING 6-8 PG 20)
- Stable Construction Entry (STD DRAWING 6-14 PG 20)
- Flow Path
- Existing Pond (to be dewatered)
- Construction Basin (STD DRAWING PG 18)
- Earthen Berm (STD DRAWING PG 21)
- On Lot Basin
- Bioretention Basin

**STAGE DETAILS - STAGE 3A**  
COMPLETION OF EARTHWORKS & STORMWATER DRAINAGE. COMPLETION OF ON LOT BASINS AND REVEGETATION AREAS. REMOVAL OF BASINS AND UNREQUIRED EROSION AND SEDIMENT CONTROL MEASURES.

**ACTIVITIES**  
COMPLETION OF CUT AND FILL OPERATION / EARTHWORKS. INSTALLATION OF ALL ON LOT BASINS AND REMOVAL OF CONSTRUCTION BASINS.  
IMPLEMENTATION OF EROSION SEDIMENT CONTROLS ON LOTS FOR HANDOVER TO BUILDERS

**SEQUENCE OF CONTROLS**  
1. COMPLETION OF ON LOT BASINS (HP)  
2. COMPLETION OF LANDSCAPE AND STABILISATION ACTIVITIES (HP)  
3. PROGRESSIVE REMOVAL OF CONSTRUCTION BASINS

ON LOT BASINS ARE TO BE IMPLEMENTED FOR HANDOVER TO THE BUILDER. REVISED ESCP DOCUMENTATION WILL BE DEVELOPED BY THE BUILDER PRIOR TO COMMENCEMENT.

WHERE COMMENCEMENT OF BUILDING IMMEDIATELY FOLLOWS EARTHWORKS, THE ON LOT BASINS MAY BE SUPERCEDED BY THE BUILDERS ESCP REQUIREMENTS AND THEREFORE NOT INSTALLED FOR THAT SPECIFIC LOT.

REFER TO ON LOT BASIN SCHEDULE FOR BASIN SIZING

ALL DRAINS TO ACCOMMODATE FLOW VELOCITY OF 1.5M/S WITH BASE WIDTH OF 1500MM AND DEPTH OF 600MM (INCLUDING 250MM FREEBOARD)  
DRAINS TO BE FABRIC / MESH LINED FOR FLOW PROTECTION

EXISTING POND

MAMRE ROAD

LOT 2, LOT 5, LOT 6, LOT 7, LOT 8, LOT 9, LOT 10, LOT 11, LOT 12

DP 54 259135

4

ON LOT BASINS ARE TO BE IMPLEMENTED FOR HANDOVER TO THE BUILDER. REVISED ESCP DOCUMENTATION WILL BE DEVELOPED BY THE BUILDER PRIOR TO COMMENCEMENT.

WHERE COMMENCEMENT OF BUILDING IMMEDIATELY FOLLOWS EARTHWORKS, THE ON LOT BASINS MAY BE SUPERCEDED BY THE BUILDERS ESCP REQUIREMENTS AND THEREFORE NOT INSTALLED FOR THAT SPECIFIC LOT.

REFER TO ON LOT BASIN SCHEDULE FOR BASIN SIZING

**LEGEND:**  
 PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS.  
 TYPICAL (IN S.O.P.)

The legend defines the following symbols and their corresponding erosion control measures:

- Dirty Diversion Drain (STD DRAWING PG 21):** Represented by a solid orange line with a greater-than sign (>) above it.
- Sediment Fence (STD DRAWING PG 23):** Represented by a dashed red line.
- Stable Construction Entry (STD DRAWING 6-14 PG 20):** Represented by a rectangle with diagonal hatching.
- Flow Path:** Represented by a grey arrow pointing right.
- Existing Pond (to be dewatered):** Represented by an irregular, rounded shape with a dotted pattern.
- Construction Basin (STD DRAWING PG 19):** Represented by a blue rectangle with a black arrow pointing right.
- Earthen Berm (STD DRAWING PG 21):** Represented by a dashed purple line.
- On Lot Basin:** Represented by a green circle with a grid pattern.
- Bioretention Basin:** Represented by a solid green rectangle.

**STAGE DETAILS - STAGE 3A**

COMPLETION OF EARTHWORKS & STORMWATER DRAINAGE. COMPLETION OF ON LOT BASINS AND REVEGETATION AREAS. REMOVAL OF BASINS AND UNREQUIRED EROSION AND SEDIMENT CONTROL MEASURES.

**ACTIVITIES**

COMPLETION OF CUT AND FILL OPERATION / EARTHWORKS. INSTALLATION OF ALL ON LOT BASINS AND REMOVAL OF CONSTRUCTIN BASINS.

IMPLEMENTATION OF EROSION SEDIMENT CONTROLS ON LOTS FOR HANDOVER TO BUILDERS

**SEQUENCE OF CONTROLS**

1. COMPLETION OF ON LOT BASINS **(HP)**
2. COMPLETION OF LANDSCAPE AND STABILISATION ACTIVITIES **(HP)**
3. PROGRESSIVE REMOVAL OF CONSTRUCTIN BASINS

|       |                                    |  |                                                                              |  |          |  |                        |  |        |  |                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|-------|------------------------------------|--|------------------------------------------------------------------------------|--|----------|--|------------------------|--|--------|--|----------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|       |                                    |  | <div>Bar Scales</div> <div>Approx</div> <div><div>6m01530456075m</div></div> |  | Key Plan |  | <div><div></div></div> |  | Client |  | <div><div>BURTON</div><div>Civil Engineering Contractors</div></div> |  | <div><div>Scales</div><div>N.T.S</div><div>Grid MGA94 ZONE 56</div><div>Height Datum AHD</div><div>THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY</div></div> <div><div>Drawn</div><div>BC</div><div>Designed</div><div>BC</div><div>Checked</div><div>BC</div><div>Approved</div><div></div></div> <div>THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY</div> |  | <div><div>Project</div><div>ACCESS LOGISTIC PARK</div><div>Title</div><div>EROSION AND SEDIMENT CONTROL</div><div>PLAN -- EARTHWORKS - SHEET 17</div></div> |  | <div><div>OCHRE ENVIRONMETAL MANAGEMENT</div><div><div><div><div></div><div>OCHRE</div><div>Environmental Management</div></div></div><div><div>PO Box 70</div><div>Kurrajong, NSW 2758</div><div>ABN 18 640 756 038</div><div>Tel: 0407782830</div><div>www.ochreenvironmental.com</div></div></div></div> <div><div>Status</div><div>INITIAL SUBMISSION</div><div>Project No. - Drawing No.</div><div>P104_ALTIS_SSD17647189-ESC</div></div> <div><div>F</div><div>Issue No.</div><div>1</div></div> |  |
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN |  | 29-07-24                                                                     |  |          |  |                        |  |        |  |                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| E     | UPDATED TO ADDRESS COMMENTS        |  | 14-06-24                                                                     |  |          |  |                        |  |        |  |                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| D     | UPDATED TO ADDRESS COMMENTS        |  | 05-06-24                                                                     |  |          |  |                        |  |        |  |                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| C     | UPDATED TO ADDRESS COMMENTS        |  | 28-05-24                                                                     |  |          |  |                        |  |        |  |                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| B     | UPDATED TO ADDRESS COMMENTS        |  | 30-04-2024                                                                   |  |          |  |                        |  |        |  |                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| A     | INITIAL SUBMISSION                 |  | 18-04-2024                                                                   |  |          |  |                        |  |        |  |                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Issue | Description                        |  | Date                                                                         |  |          |  |                        |  |        |  |                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |



**NOTE:** The Endorsed ER in accordance with Condition A36 will notify the Planning Secretary confirming the erosion and sediment controls are operational, prior to the commencement of earthworks and other construction activities for the development

**MAMRE ROAD**

**STAGE DETAILS - STAGE 3B**

COMPLETION OF SERVICING AND PAVEMENT WORKS

**ACTIVITIES**

FINALISING AC, STABILISING VERGES AND RECTIFYING ANY EXPOSED SURFACES>

MAINTAIN/IMPLEMENTATION OF EROSION SEDIMENT CONTROLS ON LOTS FOR HANDOVER TO BUILDERS

**SEQUENCE OF CONTROLS**

1. COMPLETION OF SERVICING
2. COMPLETION OF PAVEMENTS
3. COMPLETION OF LANDSCAPE AND STABILISATION ACTIVITIES
4. MAINTAIN/IMPLEMENTATION OF FINAL CONTROLS

**DISCHARGE CRITERIA:**

| PARAMETER                           | TARGET (REDUCTION IN MEAN ANNUAL LOAD FROM UNMITIGATED DEVELOPMENT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TOTAL SUSPENDED SOLIDS (TSS) AND PH | ALL EXPOSED AREAS GREATER THAN 2,500 M <sup>2</sup> ARE TO BE PROVIDED WITH SEDIMENT CONTROLS THAT ARE DESIGNED, IMPLEMENTED AND MAINTAINED TO A STANDARD THAT WOULD ACHIEVE TREATMENT OF AT LEAST 80% OF THE AVERAGE ANNUAL RUNOFF VOLUME OF THE CONTRIBUTING CATCHMENT (I.E. 80% HYDROLOGICAL EFFECTIVENESS) TO 50 mg/L TSS OR LESS, AND pH IN RANGE (6.5-8.5). NO RELEASE OF COARSE SEDIMENT IS PERMITTED FOR ANY CONSTRUCTION OR BUILDING SITE. SITES LESS THAN 2,500M <sup>2</sup> ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE BLUE BOOK. |
| OIL, LITTER AND WASTE CONTAMINANTS  | NO RELEASE OF OIL, LITTER OR WASTE CONTAMINANTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| STABILISATION                       | PRIOR TO COMPLETION OF WORKS FOR THE DEVELOPMENT, AND PRIOR TO REMOVAL OF SEDIMENT CONTROLS, ALL SITE SURFACES ARE TO BE EFFECTIVELY STABILISED SURFACE IS DEFINED AS ONE THAT DOES NOT OR IS NOT LIKELY TO RESULT IN VISIBLE EVIDENCE OF SOIL LOSS CAUSED BY SHEET, RILL OR GULLY EROSION OR LEAD TO SEDIMENTATION AND WATER CONTAMINATION.                                                                                                                                                                                                           |

**LEGEND:**

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.)

- Dirty Diversion Drain
- Sediment Fence
- Stable Construction Entry
- Flow Path
- Existing Pond (to be dewatered)
- Construction Basin
- Earthen Berm
- Clean Diversion Drain (lined)
- On Lot Basin

**EROSION CONTROL NOTES:**

ALL CONTROL WORK INCLUDING DIVERSION BANKS AND CATCH DRAINS, V-DRAINS AND SILT FENCES SHALL BE COMPLETED DIRECTLY FOLLOWING THE COMPLETION OF THE EARTHWORKS.

1. SILT FENCES AND SILT FENCE RETURNS SHALL BE ERECTED CONVEX TO THE CONTOUR TO POND WATER.
2. HAY BALE BARRIERS AND GEOTEXTILE FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
3. ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
4. CLEAR WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
6. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION.
7. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
8. ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS.
9. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200mm.
10. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
11. AFTER REVEGETATION OF THE SITE IS COMPLETE AND THE SITE IS STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SILT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
12. ALL TOPSOIL STOCKPILES ARE TO BE SUITABLY COVERED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION.
13. ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE.
14. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE SURROUNDING AREA BY USE OF THE MEASURES APPROVED IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
15. ACCESS AND EXIT AREAS SHALL INCLUDE SHAKE-DOWN OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FROM MOTOR VEHICLES.
16. THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED ESCP / SWMP.

**EROSION AND SEDIMENT CONTROL PLAN - STAGE 3**

1:750 SCALE

**PRELIMINARY ONLY**

6m 0 15 30 45 60 75m  
SCALE 1:750 AT A0 SIZE SHEET

ISSUE  
A



DISCHARGE CRITERIA:

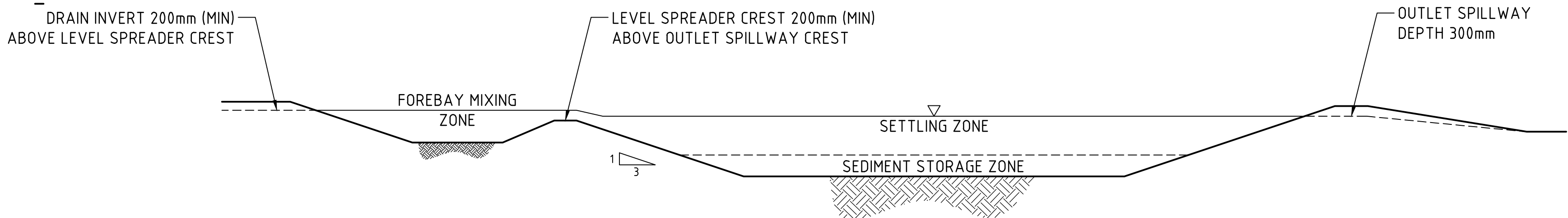
| PARAMETER                          | TARGET (REDUCTION IN MEAN ANNUAL LOAD FROM UNMITIGATED DEVELOPMENT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TOTALSUSPENDE SOLIDS (TSS) AND PH  | ALL EXPOSED AREAS GREATER THAN 2,500 M <sup>2</sup> ARE TO BE PROVIDED WITH SEDIMENT CONTROLS THAT ARE DESIGNED, IMPLEMENTED AND MAINTAINED TO A STANDARD THAT WOULD ACHIEVE TREATMENT OF AT LEAST 80% OF THE AVERAGE ANNUAL RUNOFF VOLUME OF THE CONTRIBUTING CATCHMENT (I.E. 80% HYDROLOGICAL EFFECTIVENESS) TO 50 mg/L TSS OR LESS, AND pH IN RANGE (6.5-8.5).<br>NO RELEASE OF COARSE SEDIMENT IS PERMITTED FOR ANY CONSTRUCTION OR BUILDING SITE. SITES LESS THAN 2,500M <sup>2</sup> ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE BLUE BOOK. |
| OIL, LITTER AND WASTE CONTAMINANTS | NO RELEASE OF OIL, LITTER OR WASTE CONTAMINANTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| STABILISATION                      | PRIOR TO COMPLETION OF WORKS FOR THE DEVELOPMENT, AND PRIOR TO REMOVAL OF SEDIMENT CONTROLS, ALL SITE SURFACES ARE TO BE EFFECTIVELY STABILISED SURFACE IS DEFINED AS ONE THAT DOES NOT OR IS NOT LIKELY TO RESULT IN VISIBLE EVIDENCE OF SOIL LOSS CAUSED BY SHEET, RILL OR GULLY EROSION OR LEAD TO SEDIMENTATION AND WATER CONTAMINATION.                                                                                                                                                                                                              |

STAGED CONSTRUCTION

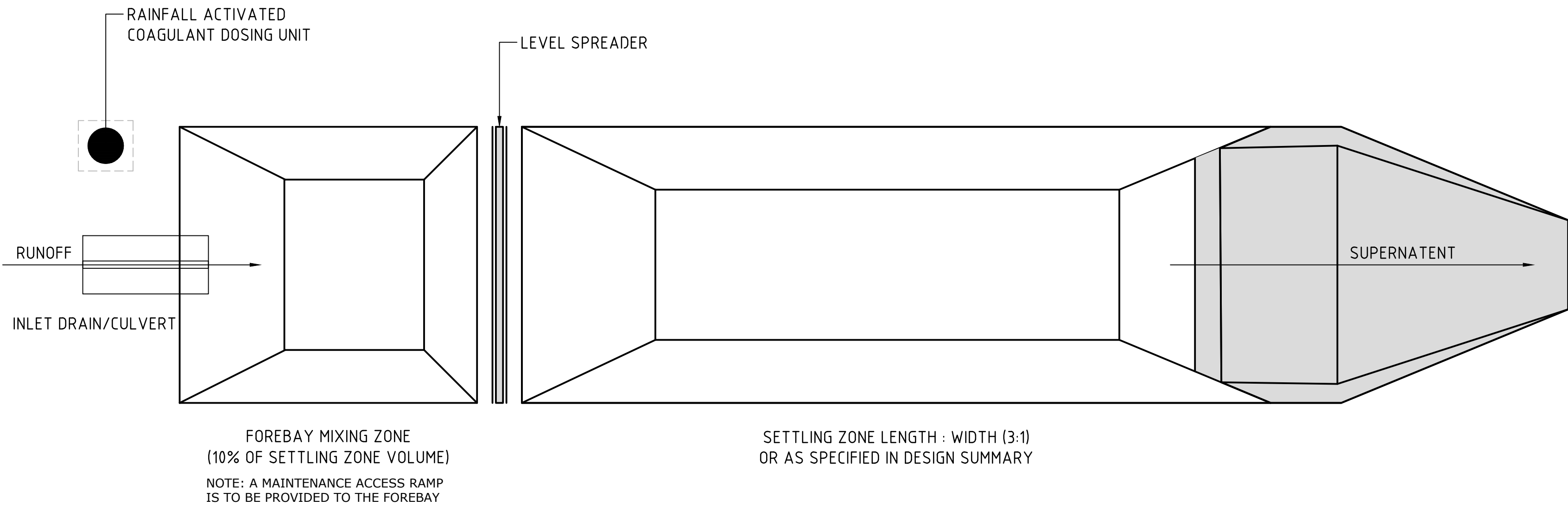
STAGE 1 - INITIAL SITE ESTABLISHMENT  
EROSION CONTROL MEASURES AS NOTED

STAGE 2 - MAJORITY OF STORMWATER INFRASTRUCTURE COMPLETED, PADS BENCHED & RETAINING WALLS CONSTRUCTED. STORMWATER FROM DEVELOPED LOTS DIVERTED TO RETENTION BASIN. STORMWATER FROM UNDEVELOPED PADS DIVERTED TO SEDIMENT BASINS.

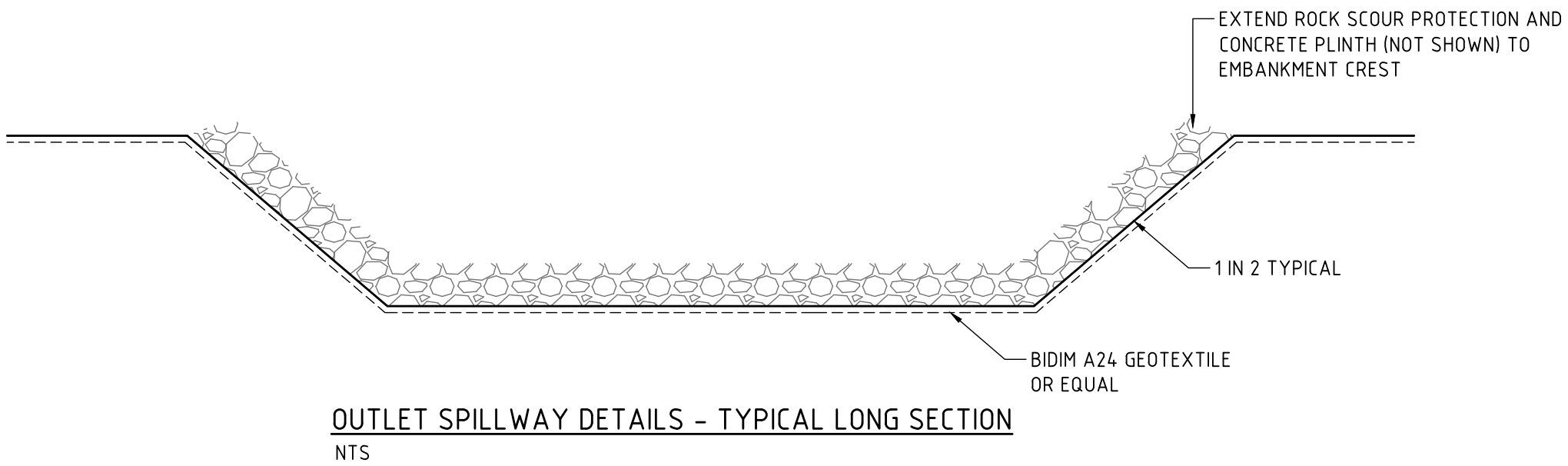
NOTE: The Endorsed ER in accordance with Condition A36 will notify the Planning Secretary confirming the erosion and sediment controls are operational, prior to the commencement of earthworks and other construction activities for the development



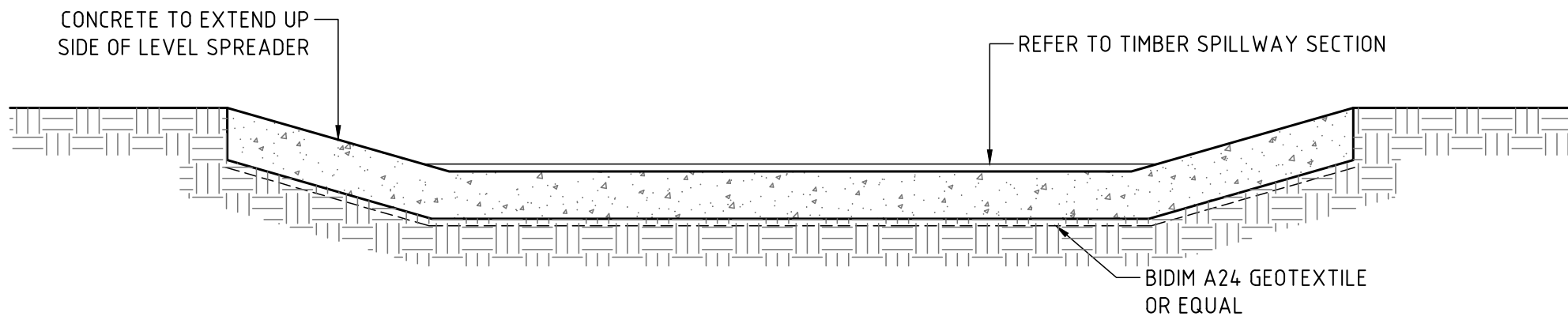
TYPE B - HIGH EFFICIENCY SEDIMENT LONG SECTION  
NTS



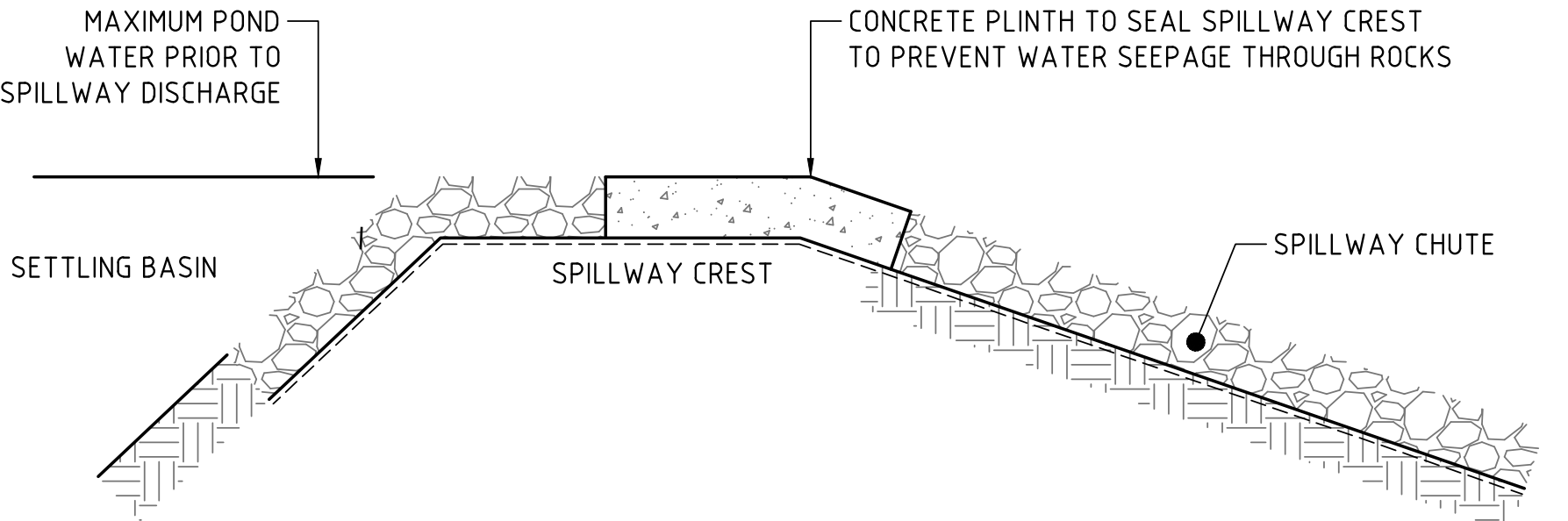
TYPE B - HIGH EFFICIENCY SEDIMENT BASIN PLAN VIEW  
NTS



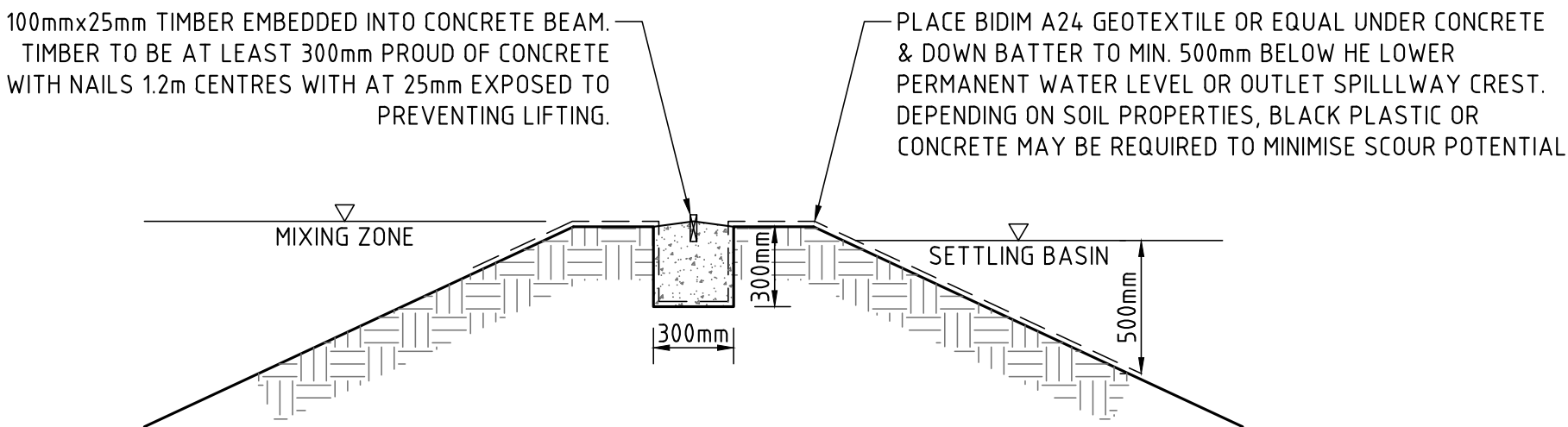
OUTLET SPILLWAY DETAILS - TYPICAL LONG SECTION  
NTS



LEVEL SPREADER DETAILS - TYPICAL LONG SECTION  
NTS



OUTLET SPILLWAY DETAILS - TYPICAL CROSS SECTION  
NTS



LEVEL SPREADER DETAILS - TYPICAL CROSS SECTION  
NTS

| Issue | Description                        | Date       |
|-------|------------------------------------|------------|
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24   |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24   |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24   |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24   |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-2024 |
| A     | INITIAL SUBMISSION                 | 18-04-2024 |

Key Plan



Client



Scales

N/A

Drawn

BC

Designed

BC

Grid MGA94 ZONE 56

Checked

BC

Height Datum

AHD

Approved

Project

ACCESS LOGISTIC PARK

Title

EROSION AND SEDIMENT CONTROL  
PLAN -- BASIN DESIGN - SHEET 19

OCHRE ENVIRONMETAL MANAGEMENT



PO Box 70  
Kurrajong, NSW 2758  
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Tel: 0407782830  
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Status

INITIAL SUBMISSION

F

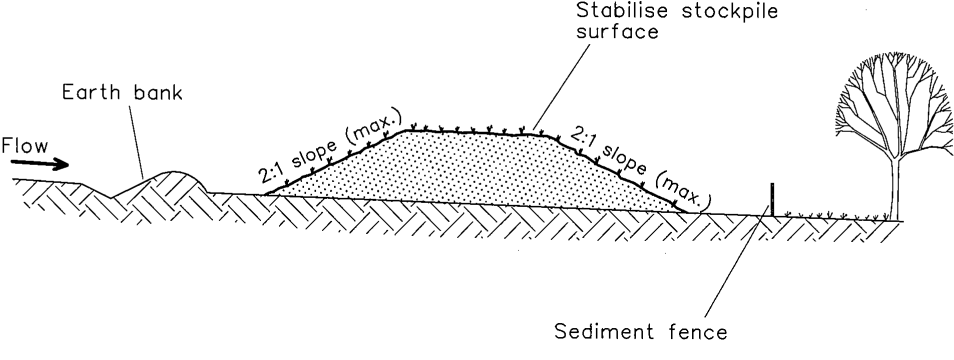
Project No. - Drawing No.

P104\_ALTIS\_SSD17647189-ESC

Issue

1

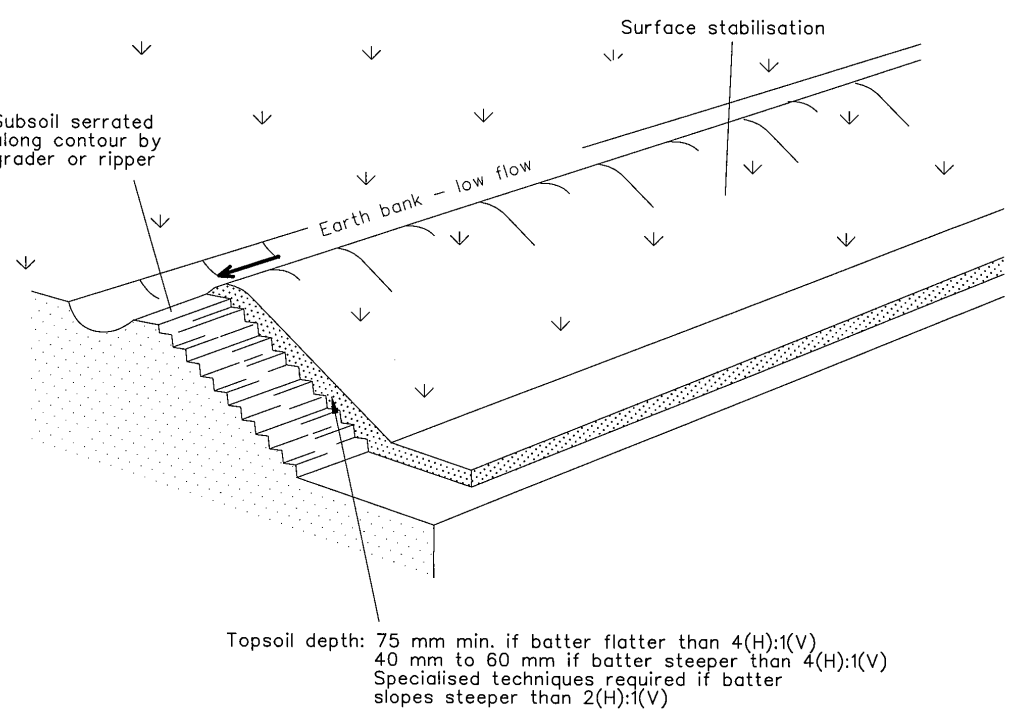




**Construction Notes**

- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- Construct on the contour as low, flat, elongated mounds.
- Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

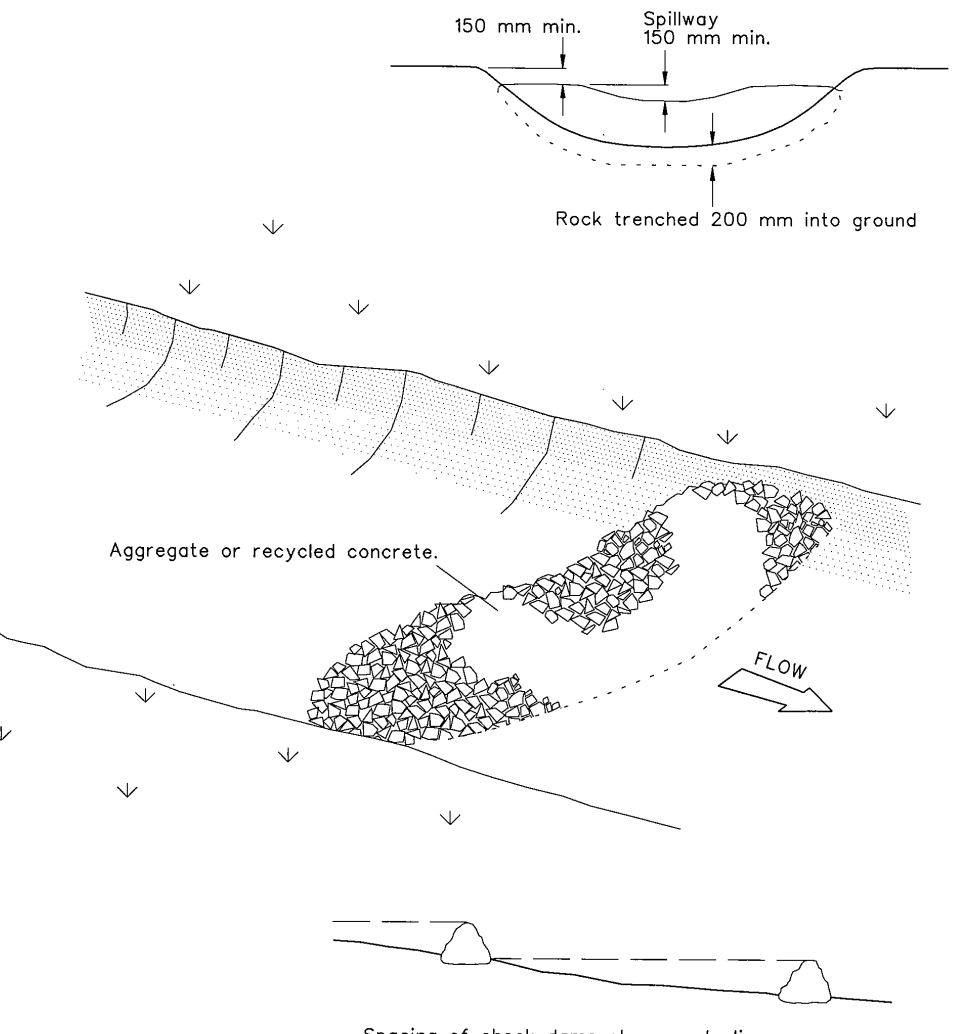
STOCKPILESSD 4-1



**Construction Notes**

- Scarify the ground surface along the line of the contour to a depth of 50 mm to 100 mm to break up any hardsetting surfaces and to provide a good bond between the respread material and subsoil.
- Add soil ameliorants as required by the ESCP or SWMP.
- Rip to a depth of 300 mm if compacted layers occur.
- Where possible, replace topsoil to a depth of 40 to 60 mm on lands where the slope exceeds 4(H):1(V) and to at least 75 mm on lower gradients.

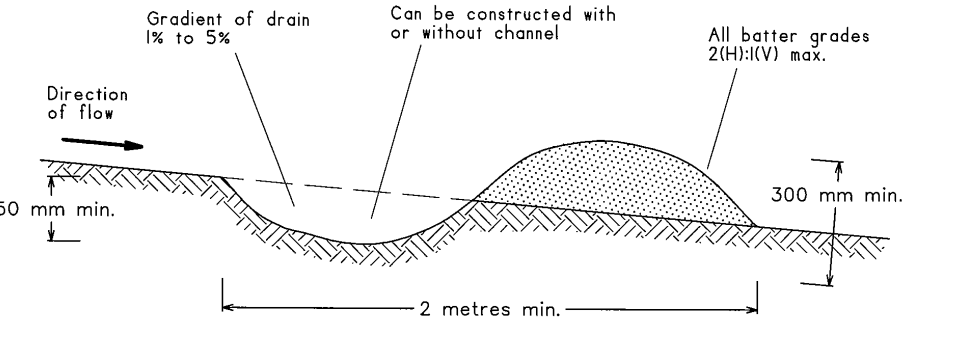
REPLACING TOPSOILSD 4-2



**Construction Notes**

- Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months.
- Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting.
- Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should act as a spillway, being at least 150 mm lower than the outer edges.
- Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.

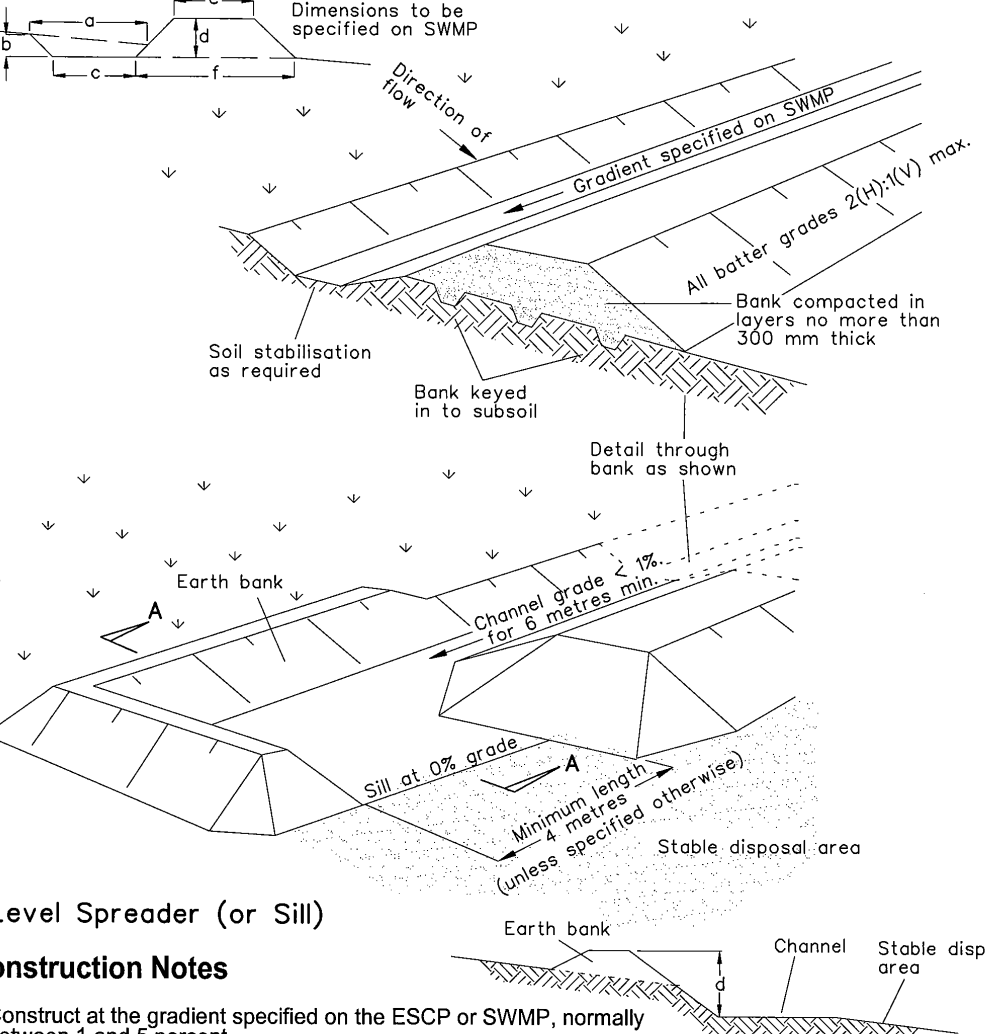
ROCK CHECK DAMSD 5-4



**Construction Notes**

- Build with gradients between 1 percent and 5 percent.
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction.

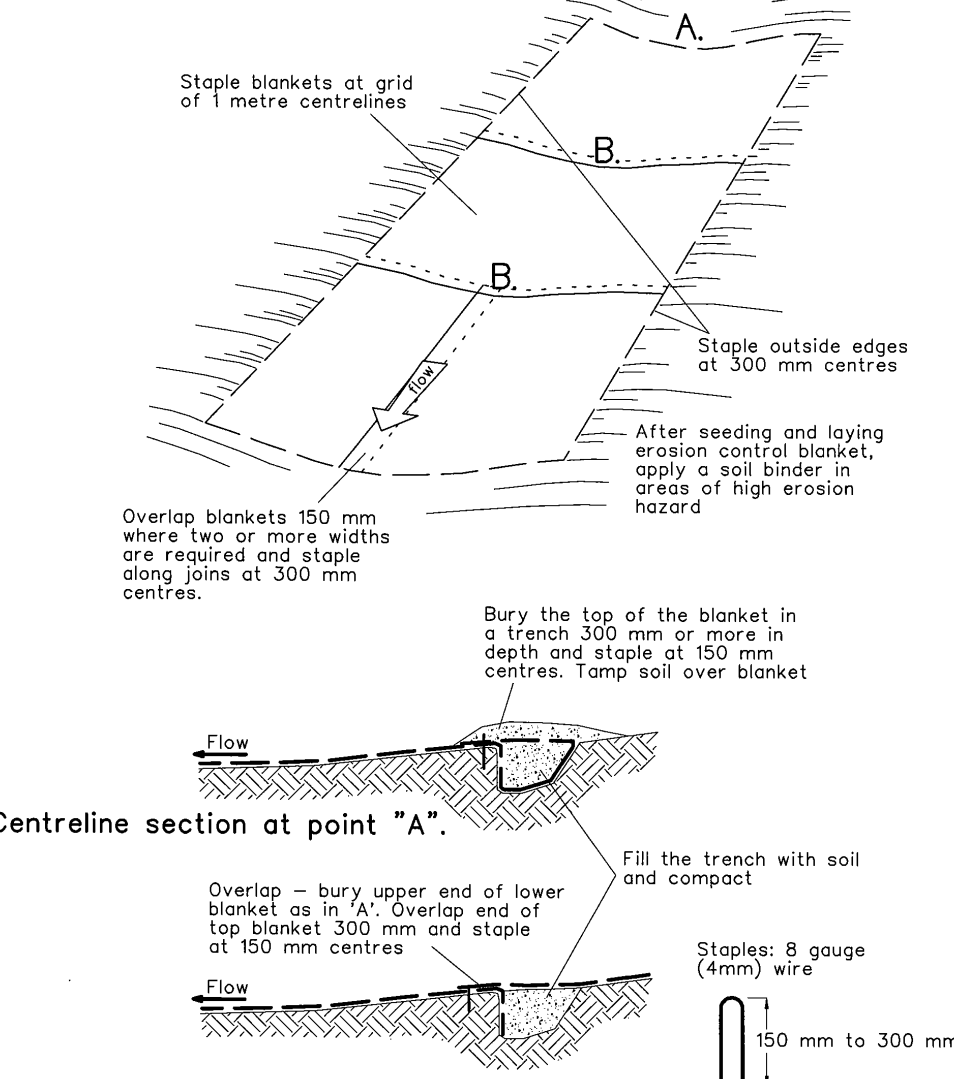
EARTH BANK (LOW FLOW)SD 5-5



**Construction Notes**

- Construct at the gradient specified on the ESCP or SWMP, normally between 1 and 5 percent
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V-shaped, at the dimensions shown on the SWMP.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction following Table 5.2 in Landcom (2004).
- Where discharging to erodible lands, ensure they outlet through a properly constructed level spreader.
- Construct the level spreader at the gradient specified on the ESCP or SWMP, normally less than 1 percent or level.
- Where possible, ensure they discharge waters onto either stabilised or undisturbed disposal sites within the same subcatchment area from which the water originated. Approval might be required to discharge into other subcatchments.

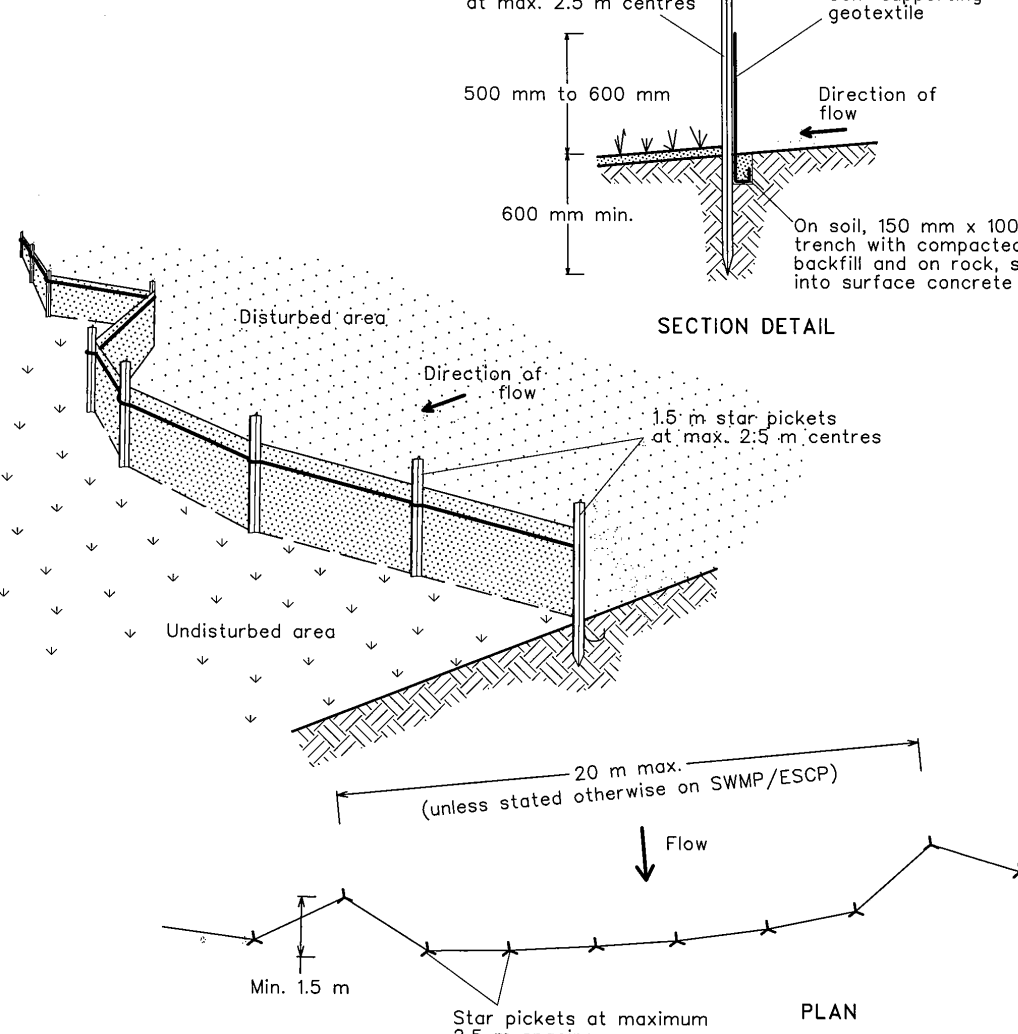
EARTH BANK (HIGH FLOWS)SD 5-6



**Construction Notes**

- Remove any rocks, clods, sticks or grass from the surface before laying matting
- Ensure that topsoil is at least 75 mm deep.
- Complete fertilising and seeding before laying the matting.
- Ensure fabric will be continuously in contact with the soil by grading the surface carefully first.
- Lay the fabric in "shingle-fashion", with the end of each upstream roll overlapping those downstream. Ensure each roll is anchored properly at its upslope end (Standard Drawing 5-7b).
- Ensure that the full width of flow in the channel is covered by the matting up to the design storm event, usually in the 10-year ARI time of concentration storm event.
- Divert water from the structure until vegetation is stabilised properly.

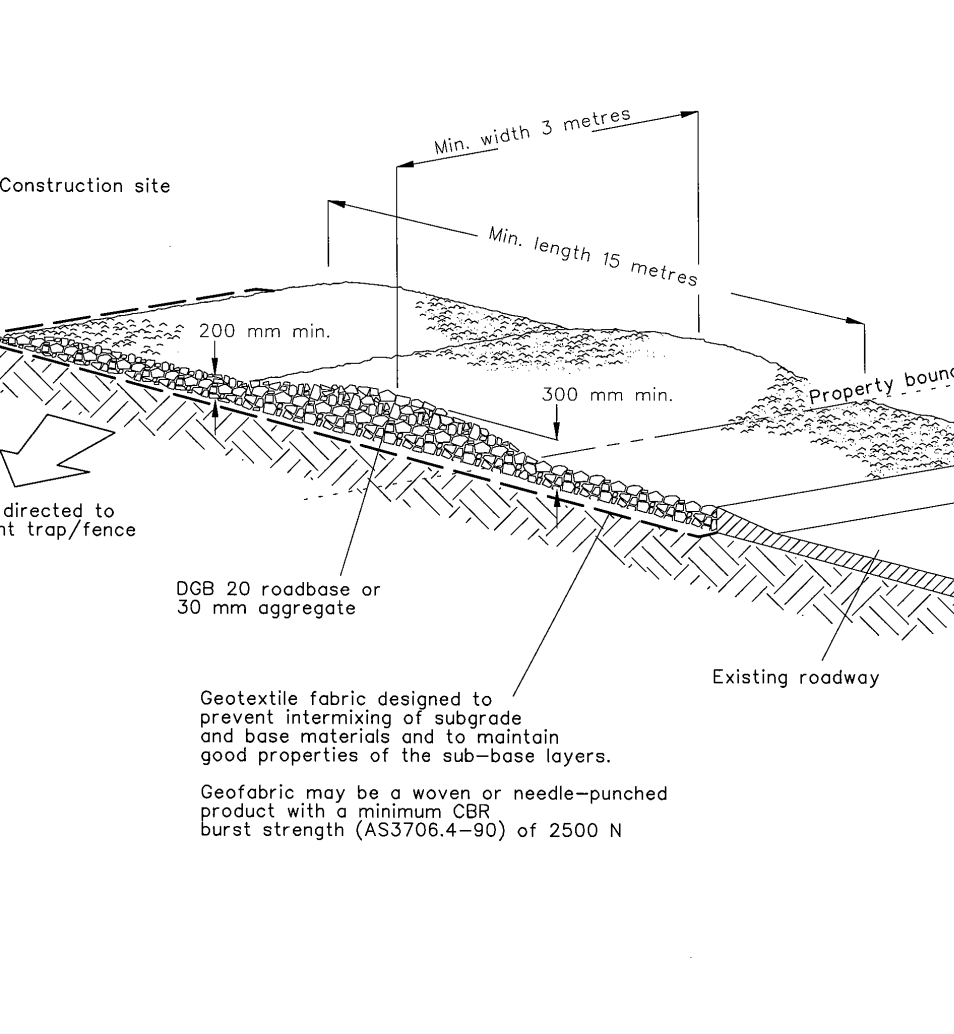
RECIP : CONCENTRATED FLOWSD 5-7



**Construction Notes**

- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
- Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
- Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
- Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
- Join sections of fabric at a support post with a 150-mm overlap.
- Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

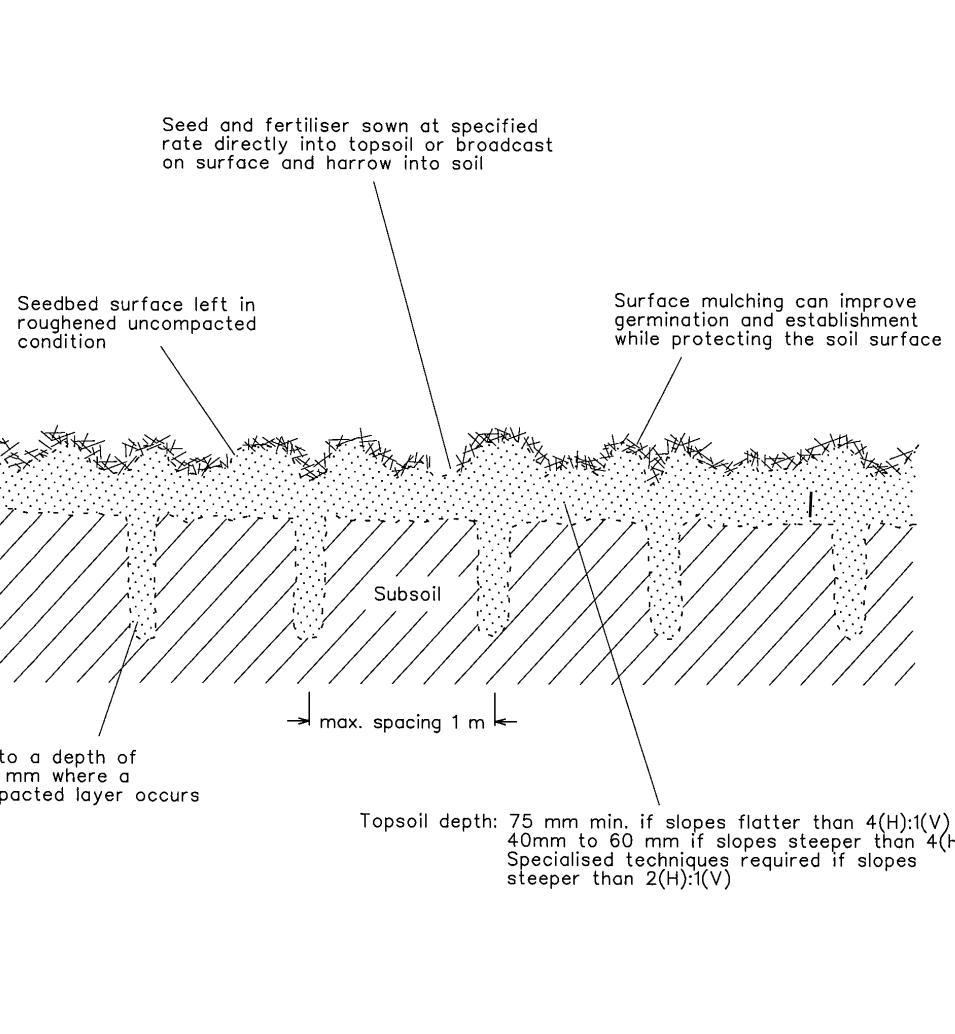
SEDIMENT FENCESD 6-8



**Construction Notes**

- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

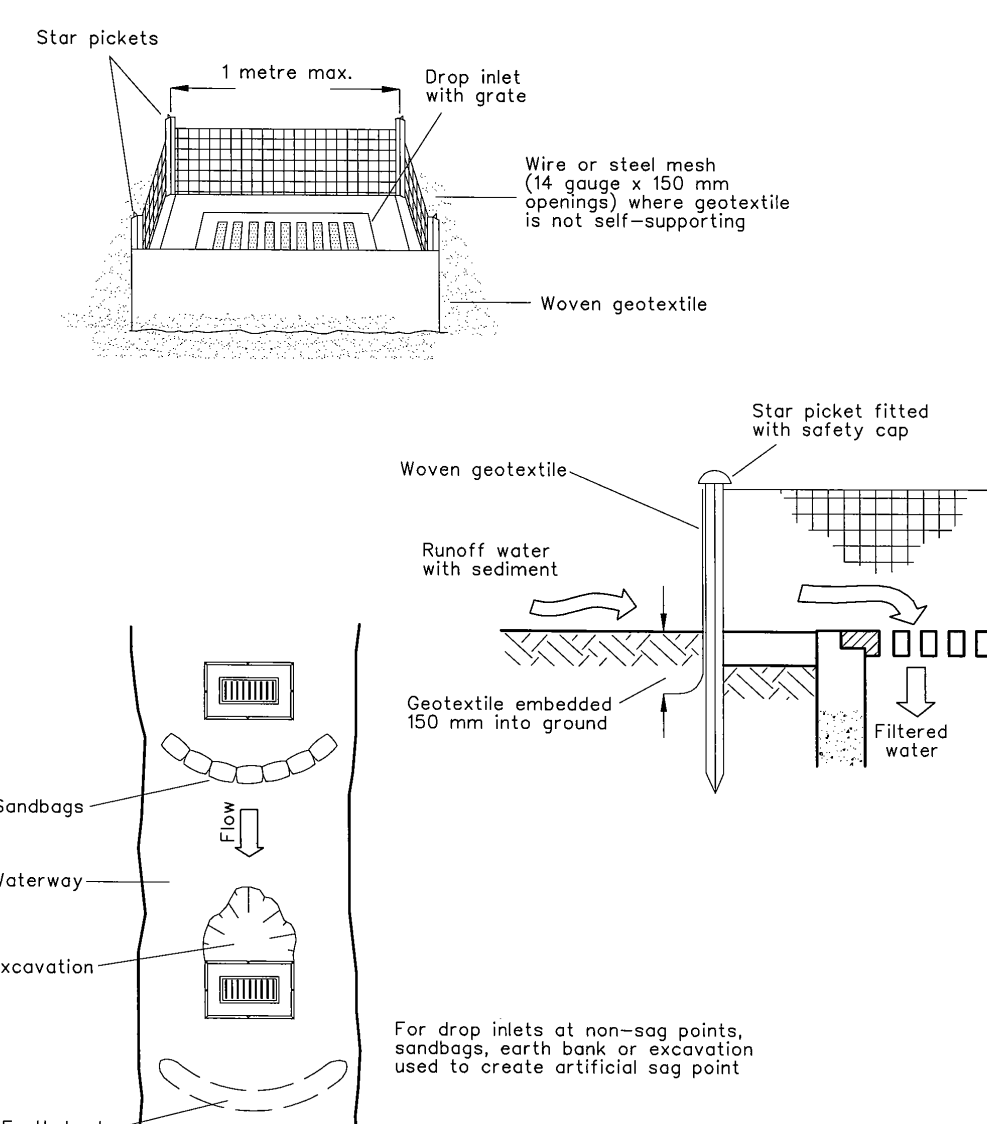
STABILISED SITE ACCESSSD 6-14



**Construction Notes**

- Loosen compacted soil before sowing any seed. If necessary, rip the soil to a depth of 300 mm. Avoid rotary hoe cultivation.
- Work the ground only as much as necessary to achieve the desired tilth and prepare a good seedbed.
- Avoid cultivation in very wet or very dry conditions.
- Cultivate on or close to the contour where possible, not up and down the slope.

SEEDBED PREPARATIONSD 7-1



**Construction Notes**

- Fabricate a sediment barrier made from geotextile or straw bales.
- Follow Standard Drawing 5-7 and Standard Drawing 5-8 for installation procedures for the straw bales or geotextile. Reduce the picket spacing to 1 metre centres.
- In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
- Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTERSD 6-12

|       |                                    |            |
|-------|------------------------------------|------------|
|       |                                    |            |
|       |                                    |            |
|       |                                    |            |
|       |                                    |            |
| F     | UPDATED TO PAGE 11 DIVERSION DRAIN | 29-07-24   |
| E     | UPDATED TO ADDRESS COMMENTS        | 14-06-24   |
| D     | UPDATED TO ADDRESS COMMENTS        | 05-06-24   |
| C     | UPDATED TO ADDRESS COMMENTS        | 28-05-24   |
| B     | UPDATED TO ADDRESS COMMENTS        | 30-04-2024 |
| A     | INITIAL SUBMISSION                 | 18-04-2024 |
| Issue | Description                        | Date       |

100mm on Original



Client

|                                                                                           |               |          |    |         |                                                                     |
|-------------------------------------------------------------------------------------------|---------------|----------|----|---------|---------------------------------------------------------------------|
| Scales                                                                                    | N/A           | Drawn    | BC | Project | ACCESS LOGISTIC PARK                                                |
| Grid                                                                                      | MGA94 ZONE 56 | Designed | BC |         |                                                                     |
| Height                                                                                    | AHD           | Checked  | BC |         |                                                                     |
| Datum                                                                                     |               | Approved |    |         |                                                                     |
| THIS DRAWING IS TO BE USED FOR THE PURPOSE ORIGINALLY INTENDED BY BURTON CONTRACTORS ONLY |               |          |    | Title   | EROSION AND SEDIMENT CONTROL<br>PLAN -- STANDRAD DRAWINS - SHEET 20 |

|                           |                            |       |
|---------------------------|----------------------------|-------|
| Status                    | INITIAL SUBMISSION         | F     |
| Project No. - Drawing No. | P104_ALTIS_SSD17647189-ESC | Issue |

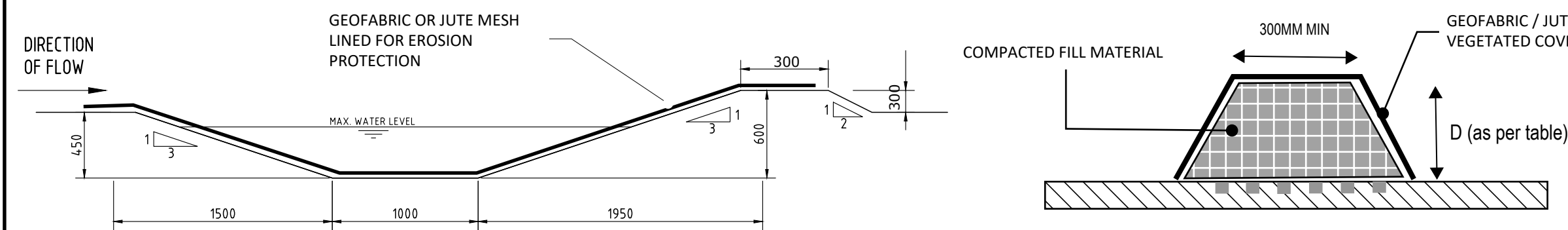
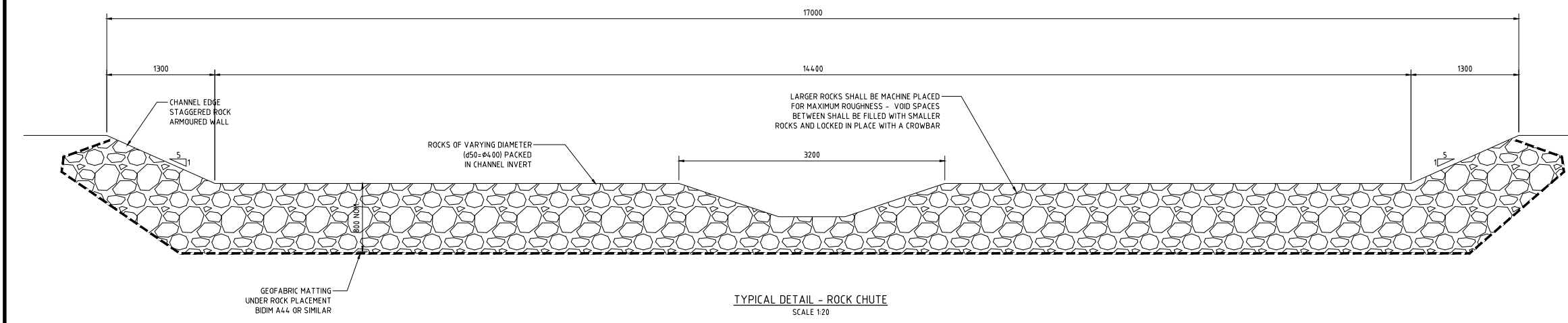
OCHRE ENVIRONMETAL MANAGEMENT

PO Box 70  
Kurrajong, NSW 2758  
ABN 18 640 756 038  
Tel: 0407782830  
www.ochreenvironmental.com.au



|                                 |                | Type B<br>Basin AB1 | Type B<br>Basin AB2 | Type B<br>Basin AB3 |
|---------------------------------|----------------|---------------------|---------------------|---------------------|
| Basin Specifications            |                |                     |                     |                     |
| Item                            | Unit           |                     |                     |                     |
| Design volume requirement       | m <sup>3</sup> | 954.4               | 2668                | 1567.2              |
| Design surface area requirement | m <sup>2</sup> | 1080                | 3436                | 2404                |
| Length                          | m              | 57                  | 102                 | 85.2                |
| Width                           | m              | 19                  | 34                  | 28.4                |
| Surface area                    | m <sup>2</sup> | 1083                | 3468                | 2419.68             |
| Length to width ratio           | ratio          | 3:1                 | 3:1                 | 3:1                 |
| Depth                           | m              | 1                   | 1                   | 1.2                 |
| Basin wall batter slope         | ratio          | 2:1                 | 2:1                 | 2:1                 |
| X-section area                  | m <sup>2</sup> | 17                  | 38                  | 26.4                |
| Basin volume                    | m <sup>3</sup> | 969                 | 3868                | 2249.28             |
| Forebay (10% of volume)         | m <sup>3</sup> | 96.9                | 387                 | 224.928             |
| Forebay length                  | m              | 7                   | 13                  | 10                  |
| Forebay width                   | m              | 19                  | 34                  | 28.4                |
| Forebay depth                   | m              | 1.0                 | 1.00                | 1.0                 |
| Forebay spillway basin slope    | ratio          | 3:1                 | 3:1                 | 3:1                 |
| X-section area                  | m <sup>2</sup> | 17                  | 32                  | 26.4                |
| Forebay volume                  | m <sup>3</sup> | 119                 | 416                 | 264                 |
| Spillway crest below basin wall | m              | 0.45                | 0.45                | 0.45                |
| Spillway width                  | m              | 17                  | 32                  | 23                  |
| Spillway freeboard              | m              | 0.3                 | 0.3                 | 0.3                 |
| Basin lining                    | ea             | A29 bidim           | A29 bidim           | A29 bidim           |
| Spillway lining                 | ea             | rip rap             | rip rap             | rip rap             |
| Inlet, concrete culvert         | dia            | >450                | >450                | >450                |

AS PER IECA SEDIMENT BASIN DESIGN GUIDELINES FGOR SEDIMENT BASIN DESIGN STEP 5B IDENTIFIES THAT THE BASIN SPILLWAY SHOULD BE THE MAXIMUM PRACTICAL WIDTH TO PREVENT RESUSPENSION OF SETTLED SEDIMENT (I.E. JUST LESS THAN THE TOP WIDTH OF THE SETTLING ZONE) WITH A FREEBOARD / CREST OF 300MM. BASINS ARE DESIGNED IN ACCORDANCE WITH THIS GUIDELINE.



| DIVERSION CHANNEL REQUIREMENTS (SLOPE=0.5%) |             |            |                |                |                |      |          |
|---------------------------------------------|-------------|------------|----------------|----------------|----------------|------|----------|
| CATCHMENT                                   | DESIGN FLOW | MANNINGS N | BASE WIDTH 'B' | FLOW DEPTH 'D' | FREEBOARD 'FB' |      | VELOCITY |
| Ha                                          | %           | NA         | m              | m              | m              | m    | m/s      |
| 0.5                                         | 0.127       | 0.04       | 0.30           | 0.30           | 0.10           | 0.10 | 0.56     |
| 1                                           | 0.254       | 0.04       | 0.60           | 0.30           | 0.10           | 0.10 | 0.56     |
| 1.5                                         | 0.381       | 0.04       | 0.75           | 0.35           | 0.15           | 0.15 | 0.63     |
| 2                                           | 0.508       | 0.04       | 1.20           | 0.35           | 0.15           | 0.15 | 0.67     |
| 2.5                                         | 0.635       | 0.04       | 1.20           | 0.40           | 0.20           | 0.20 | 0.72     |
| 3                                           | 0.762       | 0.04       | 1.50           | 0.40           | 0.20           | 0.20 | 0.74     |
| 3.5                                         | 0.889       | 0.04       | 1.50           | 0.45           | 0.25           | 0.25 | 0.78     |
| 4                                           | 1.016       | 0.04       | 1.50           | 0.50           | 0.25           | 0.25 | 0.83     |
| UP TO 7.5                                   | 1.143       | 0.04       | 1.50           | 0.50           | 0.25           | 0.25 | 0.83     |

| DIVERSION CHANNEL REQUIREMENTS (SLOPE=2.5%) |             |            |                |                |                |      |          |
|---------------------------------------------|-------------|------------|----------------|----------------|----------------|------|----------|
| CATCHMENT                                   | DESIGN FLOW | MANNINGS N | BASE WIDTH 'B' | FLOW DEPTH 'D' | FREEBOARD 'FB' |      | VELOCITY |
| Ha                                          | %           | NA         | m              | m              | m              | m    | m/s      |
| 0.5                                         | 0.127       | 0.04       | 0.30           | 0.20           | 0.10           | 0.10 | 0.50     |
| 1                                           | 0.254       | 0.04       | 0.60           | 0.20           | 0.10           | 0.10 | 1.00     |
| 1.5                                         | 0.381       | 0.04       | 0.90           | 0.25           | 0.15           | 0.15 | 1.10     |
| 2                                           | 0.508       | 0.04       | 1.20           | 0.25           | 0.15           | 0.15 | 1.20     |
| 2.5                                         | 0.635       | 0.04       | 1.50           | 0.30           | 0.20           | 0.20 | 1.40     |
| 3                                           | 0.762       | 0.04       | 1.50           | 0.30           | 0.20           | 0.20 | 1.40     |
| 3.5                                         | 0.889       | 0.04       | 1.50           | 0.30           | 0.25           | 0.25 | 1.40     |
| 4                                           | 1.016       | 0.04       | 1.50           | 0.35           | 0.25           | 0.25 | 1.50     |
| UP TO 7.5                                   | 1.143       | 0.04       | 1.50           | 0.35           | 0.25           | 0.25 | 1.50     |

DIVERSION DRAIN SIZING ADOPTED FROM COSTIN ROE DRAWINGS C014021.00

## 2. Sediment Basin Type B

| Basin Name                             | Sub-catchment or Name of Structure                                |                         |                         |  | Notes                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------|-------------------------|-------------------------|--|---------------------------------------------------------------------------------------------------------------------------------|
|                                        | AB1                                                               | AB2                     | AB3                     |  |                                                                                                                                 |
| Catchment Area (ha)                    | 3.13                                                              | 13.27                   | 8.53                    |  | Must be same as site area on Worksheet 1                                                                                        |
| Peak Flow Calculation                  | Q = C x I x A / 360                                               |                         |                         |  | Total catchment area - autofilled from Worksheet 1                                                                              |
| Peak 1 year flow - Q1 (m³/s)           | 0.270                                                             | 0.853                   | 0.601                   |  | Peak Q1 flow                                                                                                                    |
| 0.5 x Q1 flow (m³/s)                   | 0.135                                                             | 0.430                   | 0.301                   |  | Half Q1 flow                                                                                                                    |
| Settling Zone Dimensions               |                                                                   |                         |                         |  |                                                                                                                                 |
| Length to width ratio X: 1             | 3                                                                 | 3                       | 3                       |  | 3:1 recommended                                                                                                                 |
| Batter slope (1 in X)                  | 2                                                                 | 2                       | 2                       |  | 1V:5H                                                                                                                           |
| Option 1B                              | Calculates minimum settling pond surface area (As) and depth (Ds) |                         |                         |  |                                                                                                                                 |
| (mm)                                   | 150                                                               | 150                     | 150                     |  | 2018)                                                                                                                           |
| Sediment settlement coeff. - Ks (s/m)  | 8000                                                              | 8000                    | 8000                    |  | Refer Table B17, page B.26 (IECA, 2018)                                                                                         |
| Minimum surface area - As (m²)         | 1080.0                                                            | 3436.0                  | 2404.0                  |  | B19                                                                                                                             |
| Minimum settling depth - Ds (m)        | 0.68                                                              | 0.68                    | 0.68                    |  | Refer to Table B17, page B.26 (IECA, 2018)                                                                                      |
| Critical settling zone length - Lc (m) | 81                                                                | 81                      | 81                      |  | Refer to Table B17, page B.26 (IECA, 2018)                                                                                      |
| Approx. width of basin - Ws (m)        | 19.0                                                              | 33.8                    | 28.3                    |  | Average only - confirm with earthworks design software                                                                          |
| Approx. length of basin (m)            | 56.3                                                              | 101.5                   | 84.9                    |  | Average only - confirm with earthworks design software                                                                          |
| Check Ls is less than critical         | OK                                                                | Basin. Use method below | Basin. Use method below |  | Supernatant velocity will not resuspend settled sediment if basin length is less than Ls. Use Large Basin design if length < Ls |
| Large Basin Design - 1B                |                                                                   |                         |                         |  |                                                                                                                                 |
| Large basin - Ds (m)                   |                                                                   | 1.2                     | 1.2                     |  | The depth Ls or width Ws must be increased to limit the supernatant velocity for large basins. Refer Equation B.22 (IECA)       |
| Large basin width - Ws (m)             |                                                                   | 23.87                   | 16.70                   |  |                                                                                                                                 |
| Large basin length (m)                 |                                                                   | 71.62                   | 50.11                   |  | Assumes 3:1 length to width ratio                                                                                               |
| Sediment Storage Zone (SS)             |                                                                   |                         |                         |  |                                                                                                                                 |
| Soil loss (t/ha/yr)                    | 85.3                                                              | 85.3                    | 85.3                    |  | Calculated on worksheet 1                                                                                                       |
| Sediment density (t / m³)              | 1.3                                                               | 1.3                     | 1.3                     |  | Generally saturated sediment has a density of 1.3 t / m³                                                                        |
| Soil loss (m³/ha/yr)                   | 65.6                                                              | 65.6                    | 65.6                    |  | Based on sediment density above                                                                                                 |
| Put an X here for 30% of water zone    | x                                                                 | x                       | x                       |  | Fill in one or the other - either an X or nominate the number of months. Refer to Page B.40 (IECA, 2018)                        |
| Storage (soil) zone design (months)    |                                                                   |                         |                         |  |                                                                                                                                 |
| Basin storage (soil) volume (m³)       | 220.0                                                             | 616.0                   | 301.0                   |  | Refer to Page B.40 (IECA, 2018)                                                                                                 |
| Summary of Type B Basin Dimensions     |                                                                   |                         |                         |  |                                                                                                                                 |
| Basin Name                             | AB1                                                               | AB2                     | AB3                     |  |                                                                                                                                 |
| Adopted basin type                     | Option 1B                                                         | Option 1B - Large       | Option 1B - Large       |  |                                                                                                                                 |
| Settling zone surface area - As (m²)   | 1080.0                                                            | 1709.8                  | 836.9                   |  |                                                                                                                                 |
| Depth of settling zone - Ds (m)        | 0.7                                                               | 1.2                     | 1.20                    |  |                                                                                                                                 |
| Settling zone volume - Vs (m³)         | 734.4                                                             | 2051.7                  | 1004.3                  |  |                                                                                                                                 |
| Basin storage (soil) volume (m³)       | 220.0                                                             | 616.0                   | 301.0                   |  | 30% of Vss or x months storage. See pg B.40 (IECA, 2018)                                                                        |
| level (m³)                             | 954.4                                                             | 2667.7                  | 1305.3                  |  |                                                                                                                                 |

### ON LOT BASIN SIZING

| Basin Name                           | Lot 2     | Lot 5     | Lot 6     | Lot 7     | Lot 8     | Lot 9     | Lot 10    | Lot 11    | Lot 12    |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Adopted basin type                   | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B | Option 1B |
| Settling zone surface area - As (m²) | 1888.0    | 248.0     | 248.0     | 364.0     | 260.0     | 260.0     | 476.0     | 1060.0    | 344.0     |
| Depth of settling zone - Ds (m)      | 0.7       | 0.7       | 0.68      | 0.68      | 0.68      | 0.68      | 0.7       | 0.7       | 0.68      |
| Settling zone volume - Vs (m³)       | 1283.8    | 168.6     | 168.6     | 247.5     | 176.8     | 176.8     | 323.7     | 720.8     | 233.9     |
| Basin storage (soil) volume (m³)     | 385.0     | 51.0      | 51.0      | 74.0      | 53.0      | 53.0      | 97.0      | 216.0     | 70.0      |
| level (m³)                           | 1668.8    | 219.6     | 219.6     | 321.5     | 223.8     | 223.8     | 420.7     | 936.8     | 303.9     |

ON LOT BASINS ARE TO BE IMPLEMENTED FOR HANDOVER TO THE BUILDER. REVISED ESCP DOCUMENTATION WILL BE DEVELOPED BY THE BUILDER PRIOR TO COMMENCEMENT.

WHERE COMMENCEMENT OF BUILDING IMMEDIATELY FOLLOWS EARTHWORKS, THE ON LOT BASINS MAY BE SUPERCEDED BY THE BUILDERS ESCP REQUIREMENTS AND THEREFORE NOT INSTALLED FOR THAT SPECIFIC LOT.

### SEDIMENTATION BASIN NOTE:

ALL SEDIMENT BASINS ARE TO BE HIGH EFFICIENCY SEDIMENT (HES) BASINS IN ACCORDANCE WITH THE IECA WHITE BOOK.  
REFER TO DRAWINGS C014021.05-C250 & C251 FOR DETAILS.

APPROXIMATE AREA OF DISTURBED SITE = 19.88ha

#### AUTO DOSER

- PROVIDE AS EITHER FLOC BOX OR IFOD-RAIN TO MANUFACTURERS SPECIFICATION.
- DOSER AND SUPPLY OF FLOCCULANT TO BE PROVIDED ON LEVEL PAD 4m x 4m WITHIN 10m OF DOSING POINT.
- ALL-WEATHER ACCESS TRACK TO BE PROVIDED TO DOSER.
- FLOCCULANT PROVIDED AS TURBICLEAR (ACH). IF ALTERNATIVE FLOCCULANT USED THEN THE BASIN SIZE IS TO BE INCREASED ACCORDING TO JAR SETTLEMENT TEST (REFER TO TABLE BELOW)

| JAR SETTLEMENT AFTER 15 MIN. | MULTIPLICATION FACTOR TO SETTLING ZONE VOLUME |
|------------------------------|-----------------------------------------------|
| (mm)                         |                                               |
| 50                           | x3                                            |
| 75                           | x2                                            |
| 100                          | x1.5                                          |
| 150                          | x1                                            |

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

THE CONTRACTOR IS TO ENSURE THAT ALL DISTURBED AREAS OF THE PROPERTY ARE DIRECTED TO THE SEDIMENT BASIN DURING WORKS.

THE CONTRACTOR IS TO ALLOW TO PROGRESSIVELY ADJUST DIVERSION DRAINS AND SITE FALLS TO ENSURE THIS REQUIREMENT HAS BEEN ACHIEVED AT ALL TIMES.

#### NOTES:

- ASSUME TYPE B SOIL

|                                                                                                                                                  |          |             |             |            |             |             |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-------------|------------|-------------|-------------|-------------|
| LOCATION 33.850 S 150.775 E * NEAR A10s                                                                                                          |          |             |             |            |             |             |             |
| LIST OF COEFFICIENTS TO EQUATIONS OF THE FORM                                                                                                    |          |             |             |            |             |             |             |
| $\ln(I) = A + B \times (\ln(T))^2 + C \times (\ln(T))^2 + D \times (\ln(T))^3 + E \times (\ln(T))^4 + F \times (\ln(T))^5 + G \times (\ln(T))^6$ |          |             |             |            |             |             |             |
| I = INTENSITY IN MILLIMETRES PER HOUR                                                                                                            |          |             |             |            |             |             |             |
| RETURN PERIOD                                                                                                                                    | A        | B           | C           | D          | E           | F           | G           |
| 1                                                                                                                                                | 3.146113 | -0.58805E+0 | -0.28463E-1 | 0.89898E-2 | -0.26232E-3 | -0.38801E-3 | 0.35123E-4  |
| 2                                                                                                                                                | 3.399801 | -0.58835E+0 | -0.28957E-1 | 0.87825E-2 | -0.79295E-4 | -0.36336E-3 | 0.24033E-4  |
| 5                                                                                                                                                | 3.654527 | -0.58866E+0 | -0.30656E-1 | 0.76627E-2 | 0.48934E-3  | -0.19769E-3 | -0.18433E-4 |
| 10                                                                                                                                               | 3.777553 | -0.58879E+0 | -0.31666E-1 | 0.70257E-2 | 0.74464E-3  | -0.10957E-3 | -0.38388E-4 |
| 20                                                                                                                                               | 3.919702 | -0.58920E+0 | -0.31992E-1 | 0.67348E-2 | 0.95331E-3  | -0.59748E-4 | -0.52241E-4 |
| 50                                                                                                                                               | 4.075986 | -0.58972E+0 | -0.32649E-1 | 0.64369E-2 | 0.11651E-2  | -0.57280E-5 | -0.66422E-4 |
| 100                                                                                                                                              | 4.186917 | -0.58958E+0 | -0.33212E-1 | 0.58969E-2 | 0.13698E-2  | 0.67604E-4  | -0.83731E-4 |

| RAINFALL INTENSITY IN mm/h FOR VARIOUS DURATIONS AND RETURN PERIODS |                       |      |      |      |      |      |      |
|---------------------------------------------------------------------|-----------------------|------|------|------|------|------|------|
| DURATION                                                            | RETURN PERIOD (YEARS) |      |      |      |      |      |      |
|                                                                     | 1                     | 2    | 5    | 10   | 20   | 50   | 100  |
| 5 mins                                                              | 75.9                  | 98.0 | 127  | 144  | 166  | 195  | 218  |
| 6 mins                                                              | 71.0                  | 91.7 | 119  | 135  | 155  | 183  | 204  |
| 10 mins                                                             | 58.1                  | 75.8 | 97.0 | 110  | 127  | 149  | 166  |
| 20 mins                                                             | 42.4                  | 54.5 | 70.5 | 79.7 | 91.9 | 108  | 120  |
| 30 mins                                                             | 34.4                  | 44.3 | 57.1 | 64.6 | 74.5 | 87.5 | 97.3 |
| 1 hour                                                              | 23.2                  | 30.0 | 38.6 | 43.7 | 50.4 | 59.1 | 65.6 |
| 2 hours                                                             | 15.3                  | 19.7 | 25.4 | 28.7 | 33.1 | 38.8 | 43.1 |
| 3 hours                                                             | 11.9                  | 15.3 | 19.7 | 22.3 | 25.6 | 30.0 | 33.4 |
| 6 hours                                                             | 7.72                  | 9.94 | 12.8 | 14.4 | 16.6 | 19.4 | 21.6 |
| 12 hours                                                            | 4.99                  | 6.44 | 8.29 | 9.37 | 10.8 | 12.7 | 14.1 |
| 24 hours                                                            | 3.19                  | 4.13 | 5.40 | 6.15 | 7.13 | 8.43 | 9.42 |
| 48 hours                                                            | 1.97                  | 2.57 | 3.44 | 3.97 | 4.65 | 5.55 | 6.26 |
| 72 hours                                                            | 1.45                  | 1.90 | 2.57 | 2.98 | 3.51 | 4.22 | 4.77 |

(From data: 30.07, 0.45, 1.90, 50.24, 12.59, 4.21, 0.44, 0.10)  
HYDROMETEOROLOGICAL ADVISORY SERVICE  
(C) AUSTRALIAN GOVERNMENT, BUREAU OF METEOROLOGY  
\* ENSURE THE COORDINATES ARE THOSE REQUIRED SINCE DATA IS BASED ON THESE AND NOT LOCATION NAME

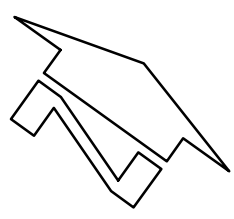
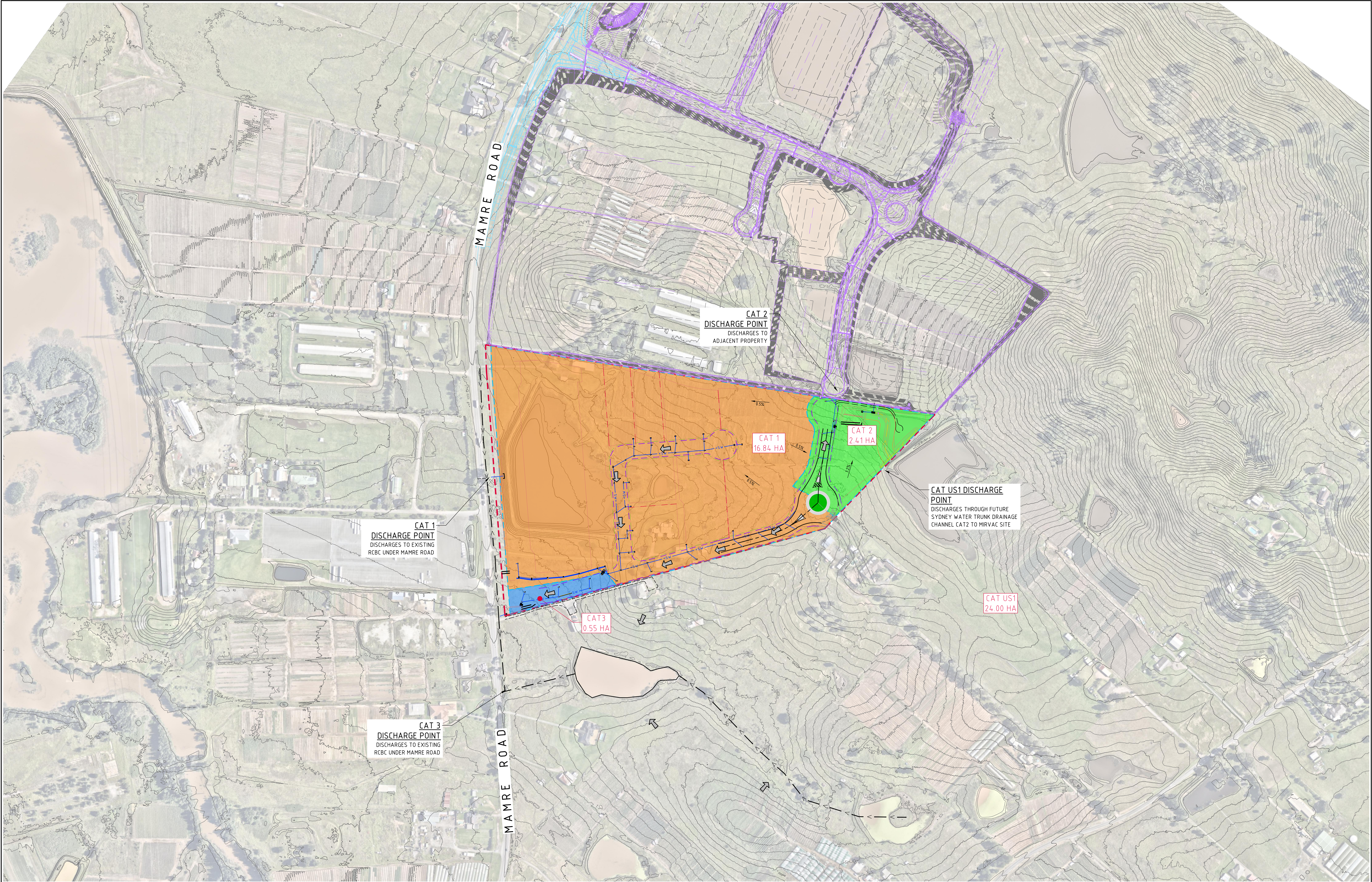
|          | Annual Exceedance Probability (AEP) |       |      |      |      |      |      |
|----------|-------------------------------------|-------|------|------|------|------|------|
| Duration | 63.2%                               | 50%*  | 20%* | 10%  | 5%   | 2%   | 1%   |
| 1 min    | 122                                 | 139   | 195  | 234  | 272  | 324  | 365  |
| 2 min    | 99.5                                | 112   | 154  | 184  | 214  | 254  | 287  |
| 3 min    | 92.3                                | 104   | 144  | 171  | 199  | 237  | 268  |
| 4 min    | 87.0                                | 98.7  | 137  | 163  | 190  | 226  | 255  |
| 5 min    | 82.5                                | 93.9  | 131  | 156  | 182  | 216  | 244  |
| 6 min    | 78.4                                | 89.5  | 125  | 150  | 174  | 207  | 233  |
| 7 min    | 74.7                                | 85.4  | 120  | 143  | 167  | 199  | 224  |
| 8 min    | 71.4                                | 81.7  | 115  | 137  | 160  | 191  | 214  |
| 9 min    | 68.3                                | 78.3  | 110  | 132  | 154  | 183  | 206  |
| 10 min   | 65.5                                | 75.1  | 106  | 127  | 148  | 176  | 198  |
| 12 min   | 60.5                                | 69.5  | 97.9 | 117  | 137  | 163  | 183  |
| 15 min   | 54.4                                | 62.5  | 88.1 | 106  | 123  | 147  | 165  |
| 16 min   | 52.7                                | 60.5  | 85.3 | 102  | 119  | 142  | 160  |
| 20 min   | 46.7                                | 53.6  | 75.6 | 90.8 | 106  | 126  | 142  |
| 25 min   | 41.1                                | 47.2  | 66.3 | 79.6 | 92.8 | 111  | 124  |
| 30 min   | 36.9                                | 42.2  | 59.2 | 71.0 | 82.8 | 98.6 | 111  |
| 45 min   | 28.5                                | 32.5  | 45.2 | 54.1 | 63.1 | 75.2 | 84.7 |
| 1 hour   | 23.6                                | 26.7  | 37.0 | 44.2 | 51.5 | 61.4 | 69.3 |
| 1.5 hour | 17.9                                | 20.2  | 27.8 | 33.1 | 38.6 | 46.0 | 52.0 |
| 2 hour   | 14.8                                | 16.6  | 22.7 | 27.0 | 31.5 | 37.6 | 42.5 |
| 3 hour   | 11.3                                | 12.7  | 17.2 | 20.5 | 23.8 | 28.5 | 32.3 |
| 4.5 hour | 8.77                                | 9.81  | 13.3 | 15.8 | 18.3 | 22.0 | 24.9 |
| 6 hour   | 7.35                                | 8.22  | 11.1 | 13.2 | 15.4 | 18.5 | 20.9 |
| 9 hour   | 5.76                                | 6.47  | 8.80 | 10.5 | 12.2 | 14.7 | 16.7 |
| 12 hour  | 4.87                                | 5.49  | 7.51 | 8.98 | 10.5 | 12.6 | 14.3 |
| 18 hour  | 3.84                                | 4.35  | 6.04 | 7.27 | 8.53 | 10.2 | 11.6 |
| 24 hour  | 3.23                                | 3.68  | 5.18 | 6.25 | 7.36 | 8.83 | 9.99 |
| 30 hour  | 2.81                                | 3.22  | 4.58 | 5.55 | 6.55 | 7.85 | 8.87 |
| 36 hour  | 2.50                                | 2.88  | 4.12 | 5.02 | 5.93 | 7.11 | 8.08 |
| 48 hour  | 2.07                                | 2.39  | 3.47 | 4.24 | 5.03 | 6.01 | 6.72 |
| 72 hour  | 1.55                                | 1.80  | 2.64 | 3.25 | 3.87 | 4.61 | 5.19 |
| 96 hour  | 1.24                                | 1.44  | 2.12 | 2.61 | 3.12 | 3.71 | 4.17 |
| 120 hour | 1.03                                | 1.20  | 1.76 | 2.17 | 2.59 | 3.08 | 3.45 |
| 144 hour | 0.885                               | 1.03  | 1.49 | 1.83 | 2.19 | 2.61 | 2.91 |
| 168 hour | 0.774                               | 0.895 | 1.29 | 1.57 | 1.88 | 2.24 | 2.50 |



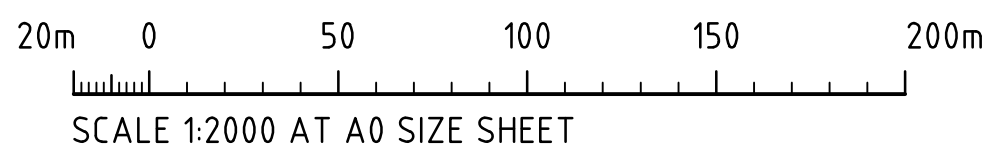
## Appendix 2    Post Development Stormwater Catchment Plan (CO14021.05-C422) (Costin Roe Consulting Pty Ltd 2024)

---





POST DEVELOPMENT STORMWATER CATCHMENT PLAN  
1:2000 SCALE



**FOR CONSTRUCTION**

|                             |      |          |            |
|-----------------------------|------|----------|------------|
| ISSUED FOR CONSTRUCTION     |      | 02.05.24 | 0          |
| ISSUED FOR PRELIMINARY ONLY |      | 15.03.24 | A          |
| AMENDMENTS                  | DATE | ISSUE    | AMENDMENTS |
|                             |      |          |            |
|                             |      |          |            |
|                             |      |          |            |

PROJECT MANAGER



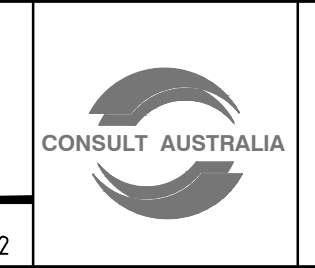
ARCHITECT



CLIENT



PROJECT  
ACCESS LOGISTICS PARK  
884-928 MAMRE ROAD  
KEMPS CREEK, NSW  
DESIGNED | DRAWN | DATE | CHECKED | SIZE | SCALE | CAD REF.  
DW | JB | MAR '24 | MW | A0 | AS SHOWN | C01402105-C-422



Costin Roe Consulting Pty Ltd.  
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CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE  
POST DEVELOPMENT  
STORMWATER CATCHMENT PLAN  
DRAWING No C014021.05-C422 ISSUE 0



## Appendix 3    Dam A Dewatering assessment (Ochre Environmental Management 2024b)

---



Tuesday, 4 June 2024

Att: Zacharia Youssef  
Project Manager  
Burtons Contractors  
Unit 3/11-21 Underwood Rd  
Homebush NSW 2140  
[Zacharia.Youssef@burtoncontractors.com.au](mailto:Zacharia.Youssef@burtoncontractors.com.au)

CC: Dylan Ible, David Claxton, Philip Grech

**Re: Altis Estate Dewatering – Dam A**

Zac,

I, Bradley Cole (CPESC #7645) provide this letter in regard to the dewatering of Dam A on the property identified as 884-928 Mamre Road, Kemps Creek, which is the subject land for the proposed State Significant Development (Reference SSD-17647189). It is noted that Dam A occupies a significant portion of the existing development area and is proposed to be dewatered in accordance with a dam dewatering plan during the construction of the project.

It is understood that the intent of the dam dewatering plan is to effectively manage aquatic aspects and discharge water quality of the dam during the dewatering process and to facilitate relocation and monitoring during the process to provide ecological verification.

The proposed discharge of Dam A would utilize existing flow paths which traverse adjacent rural residential properties. Therefore, a review of these flow paths was undertaken on the Thursday 30 May 2024 to assess the adequacy of the proposed dewatering route and to provide guidance on the dewatering process. A diagram of the flow path is provided as Attachment A to this letter. It was noted that the proposed flow path is well vegetated with stable grass species and has minimal areas of exposed surfaces.

Following the site inspection on Thursday 30 May 2024, it was noted that an opportunity exists to dewater a portion of Dam A prior to commencement of construction activities to achieve a reduction in discharge velocity to minimize scour potential and downstream inundation / flooding whilst still retaining the intent of the dam dewatering condition of the SSD Project Approval.

**The Proposal**

Based on the site inspection the following is proposed to facilitate the dewatering of Dam A within the identified property.

1. It is proposed to dewater approximately 50-60% of the current dam capacity to reduce the rate of discharge from the Dam during construction. It is anticipated that the reduction of capacity of Dam A prior to commencement of construction would enable a construction discharge at lower velocity reducing the potential for downstream impacts of inundation.
2. Two methods are proposed with both proposals to utilize a mesh attached to inlet to prevent fauna injury.
  - a. Syphon / decant system with the inlet of the syphon fixed at the identified dewatering level.



- b. Pumping with a float attached to Basket Strainer on the Inlet hose, to prevent dispersion of sediment downstream.
- 3. The dewatering process would not include relocation or adverse impacts to the aquatic fauna with the decant rate limited to approximately 35 L/s. *(It is noted that the catchment area for the dam is approximately 13 ha and the recommended decant rate for the Sydney location under the IECA Best Practice Erosion and Sediment Control Guideline is 9 L/s/ha).* The dam dewatering process identified in the SSD construction approval would be implemented on commencement of construction and would be utilized to complete the dewatering of the remaining portion of Dam A.
- 4. Requirements and mitigations proposed for the dewatering process are summarized below:
  - a. Initial water sampling for the following parameters
    - i. NTU <50
    - ii. pH 6-5- 8.5
    - iii. EC < 350µs/cm
    - iv. Oil and Grease – Nil visible
  - b. Implementation of scour rock protection at the outlet location (75-300mm rock) for energy dissipation and scour protection.
  - c. Implementation of scour protection at the downstream culvert locations (75-300mm rock) for energy dissipation and scour protection and undertake clearing (jetting ) for capacity to remove acculmualted sediment.
  - d. Monitoring of discharge outlet during pumping for discoloration and scour. Changes in colour or evidence of scour would result in cessation of dewatering activity and reassessment of the process by the project CPESC.
  - e. Monitoring of downstream flow paths for inundation flooding. Identification of any potential impacts to property would result in immediate cessation of discharge.
  - f. No dewatering would be undertaken during a rainfall event

It is noted that initial consultation has been undertaken with the downstream rural residential properties. This consultation will be formalised and would be continued throughout the dewatering process.

It is therefore proposed that the approval to dewater Dam A prior to commencement of construction is sought from the department based on the above assessment and recommendations to reduce the rate of discharge during construction.

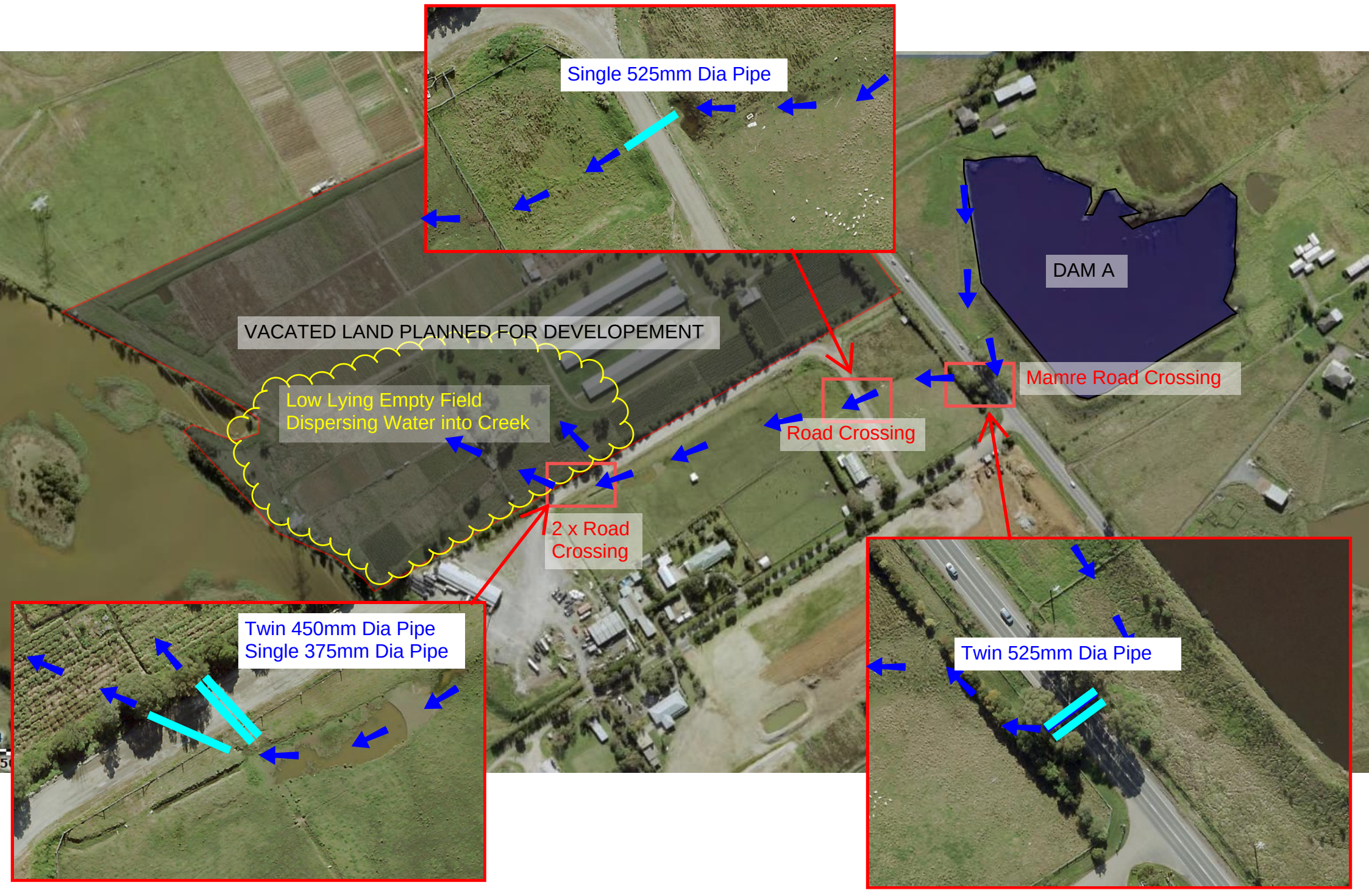
Regards



Bradley Cole

Director | Ochre Environmental Management





Single 525mm Dia Pipe

VACATED LAND PLANNED FOR DEVELOPEMENT

Low Lying Empty Field  
Dispersing Water into Creek

2 x Road  
Crossing

Road Crossing

Mamre Road Crossing

DAM A

Twin 450mm Dia Pipe  
Single 375mm Dia Pipe

Twin 525mm Dia Pipe



2 x 525mm dia Mamre Rd Crossing





1 x 525mm dia Road Crossing



2 x 450mm dia Road Crossing



1 x 375mm dia Road Crossing





## Appendix 4 Discharge Water Quality Checklist

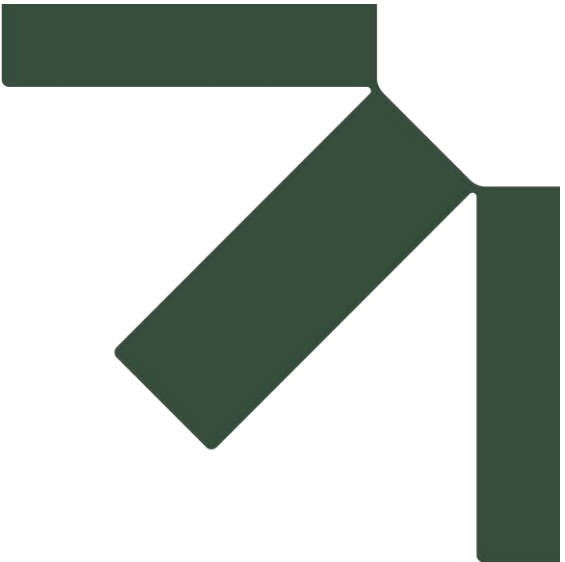
| Discharge Water Quality Checklist (Must Complete All Sections)                                                                         |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                  |           |                        |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------|------------------------|
| <b>Location: OWIE Sediment Basin:</b>                                                                                                  |                                                                                                                                                                                                                                                                                                                                             | <b>Date of Rain Event:</b><br><b>Amount of Rain:</b>                                                             |           | <b>Date Inspected:</b> |
| What is the approximate volume of water to be discharged? <b>ML / L / kL</b><br>Is maintenance of the basin, excavation require? _____ |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                  |           |                        |
|                                                                                                                                        | <b>CONTROL MEASURE</b>                                                                                                                                                                                                                                                                                                                      | <b>YES</b>                                                                                                       | <b>NO</b> | <b>COMMENTS</b>        |
| 1                                                                                                                                      | Can the water be re-used for dust suppression or other?                                                                                                                                                                                                                                                                                     |                                                                                                                  |           |                        |
| 2                                                                                                                                      | Is it necessary to discharge water? (note reason)                                                                                                                                                                                                                                                                                           |                                                                                                                  |           |                        |
| 3                                                                                                                                      | Is any oil and/or grease visible on the surface of the water? If visible, remove using a suitable absorbent material.                                                                                                                                                                                                                       |                                                                                                                  |           |                        |
| 4                                                                                                                                      | Any other potential contaminants other than turbidity, pH or oil/grease of concern                                                                                                                                                                                                                                                          |                                                                                                                  |           |                        |
| 5                                                                                                                                      | <b>Sediment Basin Water Treatment</b><br><br>How much flocculent was added?<br>(Guide: 90kg/1megalitre Alchlor Geo)<br>(Guide: 300kg/1megalitre Gypsum)<br><br>How much Lime / was added to meet the required pH range? (if required)                                                                                                       | Flocculent used:<br>Amount _____ kg<br>Date & time added _____<br><br>Amount _____ kg<br>Date & time added _____ |           |                        |
| 6                                                                                                                                      | <b>Allow 24hrs then sample water</b><br>If NTU>70 re-flocculate or sample and send grab sample to Lab<br><br><u>Discharge Permitted only if all of the following are met:</u> <ul style="list-style-type: none"> <li>NTU&lt;75 (Based on NTU TSS Correlation)</li> <li>No oil or grease visible</li> <li>pH is between 6.5 - 8.5</li> </ul> | Date & time of test - _____<br>Turbidity = _____ NTU<br>pH = _____<br>Oil or grease visible - (Yes/No)           |           |                        |
| 7                                                                                                                                      | <b>If Laboratory Results Required</b><br><b>Discharge Criteria</b><br>TSS < 50mg/L<br>Oil and Grease < 10mg/L<br>PH 6.5 – 8.5                                                                                                                                                                                                               | TSS = _____ mg/L<br>Oil and Grease = _____ mg/L<br>PH = _____                                                    |           |                        |
| 8                                                                                                                                      | <b>Date Of Discharge:</b><br><br><b>Location of Discharge:</b>                                                                                                                                                                                                                                                                              | _____<br>_____<br>_____                                                                                          |           |                        |

Additional Comments:

|                                                                                        |                       |
|----------------------------------------------------------------------------------------|-----------------------|
| <b>2 x Signatures Required Approved by (Project Manager/Environmental Coordinator)</b> | <b>Discharged by:</b> |
|----------------------------------------------------------------------------------------|-----------------------|







# **Appendix F      Construction Noise and Vibration Management Plan**



# Access Logistics Park

**884 – 928 Mamre Road, Kemps Creek  
Construction Noise and Vibration Management Plan –  
Civil Works**

## **Burton Contractors Pty Ltd**

Homebush Business Village  
Unit 3/11-21 Underwood Rd  
Homebush NSW 2140

Prepared by:

### **SLR Consulting Australia**

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

SLR Project No.: 610.031427.00002

2 September 2024

Revision: v2.0



## Revision Record

| Revision | Date             | Prepared By     | Checked By       | Authorised By    |
|----------|------------------|-----------------|------------------|------------------|
| v2.0     | 2 September 2024 | Jason Rasquinha | Martin Davenport | Martin Davenport |
| v1.0     | 21 August 2024   | Jason Rasquinha | Martin Davenport | Martin Davenport |
|          |                  |                 |                  |                  |

## 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 Burton Contractors Pty Ltd (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.



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## Acronyms and Abbreviations

|             |                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| AIE         | Aspect Industrial Estate                                                                                                       |
| ALP         | Access Logistics Park                                                                                                          |
| AS          | Australian Standards                                                                                                           |
| BAPS        | Bochasanwasi Shri Akshar Purushottam Swaminarayan Sanstha                                                                      |
| BS          | British Standard                                                                                                               |
| CEMP        | Construction Environmental Management Plan                                                                                     |
| CMP         | Construction Management Plan                                                                                                   |
| CNVG        | Construction Noise and Vibration Guideline                                                                                     |
| CNVIA       | Construction Noise and Vibration Impact Assessment                                                                             |
| CNVMP       | Construction Noise and Vibration Management Plan                                                                               |
| dB          | Decibel                                                                                                                        |
| dBA         | A-weighted decibel (referenced 20 µPa)                                                                                         |
| DPHI        | Department of Planning, Housing and Infrastructure                                                                             |
| EIS         | Environmental Impact Statement                                                                                                 |
| EPA         | NSW Environment Protection Authority                                                                                           |
| ICNG        | Interim Construction Noise Guideline                                                                                           |
| ISO         | International Organization for Standardization                                                                                 |
| kHz         | Kilohertz                                                                                                                      |
| LAeq        | Equivalent continuous noise level, providing a representation of the cumulative level of noise exposure over a defined period. |
| m           | Metres                                                                                                                         |
| Master Plan | Concept Master Plan                                                                                                            |
| MRP         | Mamre Road Precinct                                                                                                            |
| NIA         | Noise Impact Assessment                                                                                                        |
| NMLs        | Noise Management Levels                                                                                                        |
| NPfI        | Noise Policy for Industry                                                                                                      |
| NSW         | New South Wales                                                                                                                |
| SLR         | SLR Consulting Australia Pty Ltd                                                                                               |
| SSD         | State Significant Development                                                                                                  |
| SSDA        | State Significant Development Application                                                                                      |
| TfNSW       | Transport for NSW                                                                                                              |



## 1.0 Introduction

SLR Consulting Australia Pty Ltd (SLR) has been engaged by Burton Contractors Pty Ltd (Burton) to prepare a Construction Noise and Vibration Management Plan (CNVMP) for civil works for the Access Logistics Park (ALP/the 'development') located at 884 – 928 Mamre Road, Kemps Creek, NSW.

This CNVMP addresses the potential noise and vibration impacts associated with the demolition, earthworks and infrastructure construction works at the development site. The CNVMP has been prepared in accordance with the relevant conditions and requirements of Development Consent SSD 17647189 dated December 2023 (the Development Consent) issued by the Department of Planning, Housing and Infrastructure (DPHI) (formerly known as the Department of Planning and Environment).

A Construction Environmental Management Plan (CEMP) for the civil works associated with the development has been prepared by SLR (see SLR report 630.031426.00001 *Construction Environmental Management Plan Access Logistics Estate 884-928 Mamre Road, Kemps Creek*, Revision 5 dated September 2024). This CNVMP has been prepared to accompany the CEMP for the development.

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).

At the time of finalising this report, Planning Secretary's endorsement has not yet been provided. The CV's of SLR personnel involved in this CNVMP have been provided to DPHI for this purpose.

### 1.1 Objectives

The objectives of this CNVMP are as follows:

- Nominating the appropriate NMLs and vibration criteria for the construction works.
- Identification of the most impacted receivers surrounding the development.
- Predicting the magnitude of likely noise and vibration impacts and assessing the impacts against the NMLs and vibration criteria.
- Outlining the following:
  - Standard mitigation and management measures to minimise the noise and vibration impacts.
  - Requirements for monitoring noise and vibration impacts and preparation of monitoring reports.
  - Requirements for complaints management and community consultation.
  - The contingency plan to be implemented where impacts that are higher than expected.
  - Requirement to conduct internal audits.
  - Roles and responsibilities.
  - The need for review of this CNVMP in accordance with the CEMP.





## 1.2 Procedure for Implementing this CNVMP

This general procedure will be followed in order to implement this CNVMP:

- 1 Review the requirements of the conditions within the Development Consent relevant to construction noise and vibration (refer to **Section 3.0**), the location of the nearest sensitive receivers (refer to **Section 4.1** and **Section 4.2**) and the applicable Noise Management Levels (NMLs) (refer to **Section 5.1.1**).
- 2 Prior to the commencement of construction phases/activities, confirm the assumptions regarding construction activities/locations/equipment/methodology detailed in **Section 6.0** 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 8.2.1**.
- 3 Review the predicted noise levels for the proposed construction activities (refer to **Section 7.1** and/or any updated assessment undertaken in Step 2) to confirm the predicted impacts for each activity. Each activity has “worst case” noise level predictions using the noisiest equipment for that activity.
- 4 Where the construction noise levels 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 8.0**) 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 8.0** 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.
- 5 Review the minimum working distances for vibration intensive plant (refer to **Section 5.3.2**) and the vibration assessment results (refer to **Section 7.3**). 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 8.0**.
- 6 Undertake noise and/or vibration monitoring in accordance with **Section 8.2**, where required.
- 7 Where works are required outside of the standard construction hours, additional assessment and documentation must be prepared for approval by the Planning Secretary (refer to **Section 6.2**).
- 8 Resolve any noise/vibration issues during construction works as per the contingency plan (refer to **Section 8.6**), and document and report incidents and complaints as per the requirements in **Section 8.0**.



## 2.0 Development Overview

Access Logistics Park (ALP) is legally described as Lots 52 & 53 on DP259135, which is located on the east side of Mamre Road, Kemps Creek, with an area of approximately 20.303 hectares (ha) within the Penrith Local Government Area.

The estate has around 450 m of direct frontage to Mamre Road with one proposed left-in/left-out intersection providing vehicular access to the eastern side of the development. It is understood that the intersection will be designed to accommodate all heavy vehicles (up to and including B-doubles).

The development is located approximately 5 km north-east of the future Western Sydney Nancy-Bird Walton Airport, 16 km south-east of the Penrith CBD and 38 km west of the Sydney CBD.

The site is part of the Broader Western Sydney Employment Area and is zoned land under the State Environmental Planning Policy (Industry & Employment) 2021 (SEPP 2021).

The ALP and surrounding receivers are shown in **Figure 1**, as taken from Figure 9 and Figure 10 in Appendix 2 of the Development Consent and the SSDA NVIA for ALP. The site is proposed to be subdivided into 4 development lots in Stage 1 and 11 development lots in Stage 2 (see **Figure 2** and **Figure 3**).

It is noted that the nearest receivers to the north and west of the site have been demolished as part of works on other adjacent developments. Receivers that have been demolished have been removed from the assessment.





# ACCESS LOGISTICS PARK 884 – 928 MAMRE ROAD, KEMPS CREEK

## FIGURE 1

### LEGEND

-  Noise Monitoring Locations
-  NVIA Identified Receivers
-  Industrial Receivers
-  Mamre Road Precinct
-  Noise Catchment Areas
-  Receiver Buildings
-  Residential Areas
-  Site Boundary

DISCLAIMER: All information within this document may be based on external sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose.



0 0.5 1 km

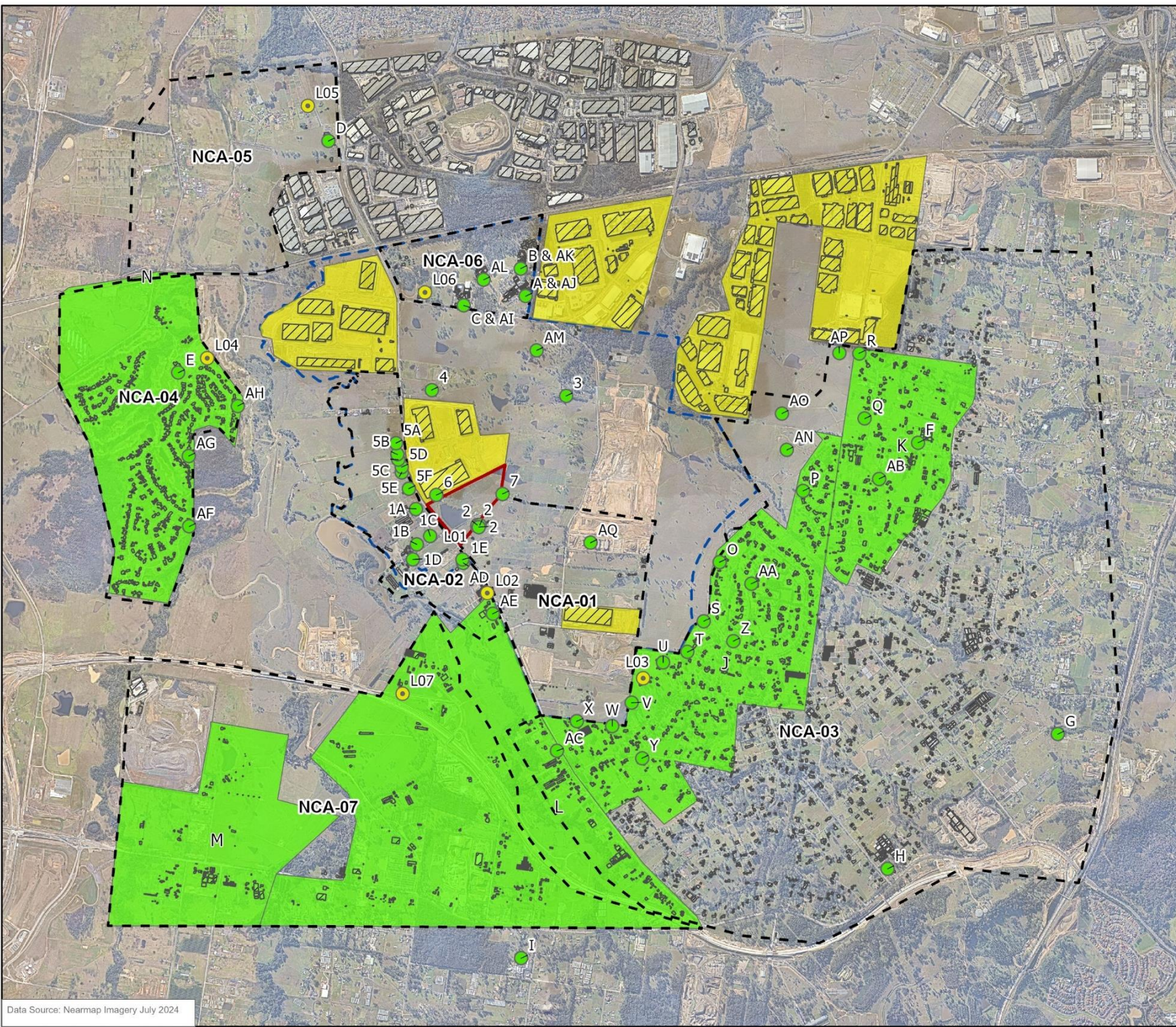
Coordinate System: GDA 1994 MGA Zone 56

Scale: 1:45,000 at A4

Project Number: 630.031427

Date Drawn: 8/8/2024

Drawn by: DC



Data Source: Nemap Imagery July 2024

Path: \\au.slr.local\Corporate\Projects-SLR\630-SrvNTL\630.031427.00001 Access Estate - Burtons (Full)\06 SLR Data\01 CAD\GIS\GIS\ArcPro\630.031427\_Access Estate - Burtons\630031427\_Access Estate - Burtons.aprx\630.031427\_Figure01\_Access Logistics Park





**SURVEY REFERENCE**

|                 |                                                                             |
|-----------------|-----------------------------------------------------------------------------|
| DRAWING NUMBER: | DETAILED SURVEY OF LOTS 80-84 IN DP9047134 - 86A FOR MAMRE ROAD ADAPT CATCH |
| DATE OF SURVEY: | 10/06/2020                                                                  |
| PLAN NUMBER:    | SDCUTRAADSS.L4                                                              |

**MAMRE ROAD WEIDINGS**

|            |                                                 |
|------------|-------------------------------------------------|
| CADD NAME: | Bat_Mt_Design_Group_Jane_C_14062020_Alexandra_B |
|------------|-------------------------------------------------|

**LOT 3**  
LOT AREA = 1,481sqm<sup>2</sup>

**LOT 1**  
LOT AREA = 4,265sqm<sup>2</sup>

**LOT 2**  
LOT AREA = 62,140sqm<sup>2</sup>

**LOT 4**  
**TOTAL LOT 4**  
(EXCLUDED DRAINAGE CHANNELS)

**SELECTION BOUNDARY**

**PROPOSED RIGHT OF ACCESS**

**PROPOSED DRAINAGE FOR PROPOSED RIGHT OF ACCESS**

**PROPOSED RIGHT OF ACCESS & EASEMENT FOR SERVICES BETWEEN FUTURE LONG COMMON**

**PROPOSED DRAINAGE CHANNNEL OPTION**

**S/SW DRAINAGE LINE CONNECTION & CED TAKE**  
SPECIFIC DETAIL REFER TO CIVIL DESIGN DRAWING FOR FURTHER DETAIL

**NORTH ARROW**

**ALTIS PROPERTY PARTNERS**

**ISSUE FOR SSDA**

**ProjectStrategy**

**Project Name:** 804-828 Mamre Road  
**Project Address:** 804-828 Mamre Road, Kamps Creek, NSW

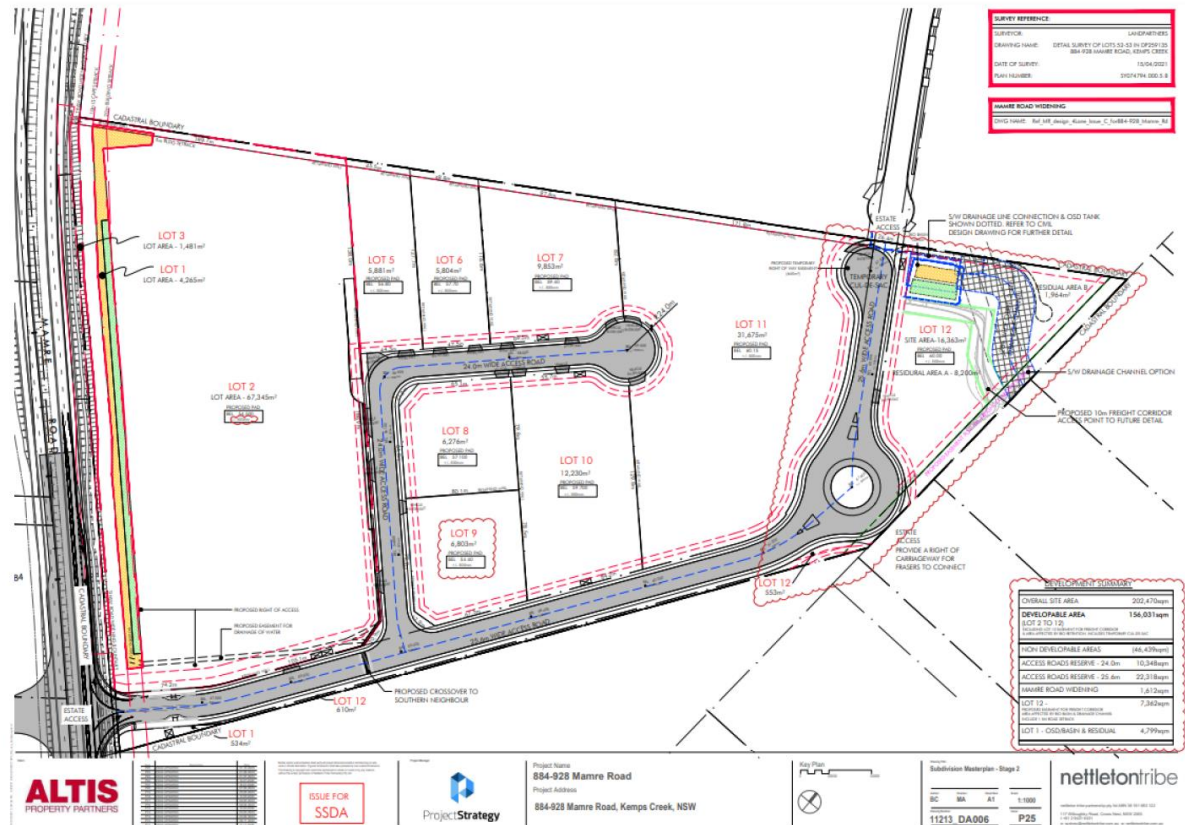
**Stage 1 Finalist Let Substation**

| BC    | BA    | A1  | 11805 |
|-------|-------|-----|-------|
| 11213 | DA005 | P19 |       |

**nettletontribe**



Figure 3 Stage 2 Master Plan Design



### 3.0 Development Consent

The Development Consent for the project was approved by Minister for Planning and Public Spaces in SSD 17647189 dated December 2023. The conditions relevant to this CNVMP are reproduced in **Table 1**.

**Table 1 Development Consent Conditions**

| Development Consent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | CNVMP Section where Addressed |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|
| Protection of Public Infrastructure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                               |
| A15. Prior to the commencement of earthworks for the development, the Applicant must:<br>a) consult with the relevant owner and provider of services or public infrastructure that are likely to be affected by the development or that need to be installed as part of the development, to make suitable arrangements for relevant approvals, access to, diversion, protection and support of the affected services or infrastructure;<br>b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and<br>c) submit a copy of the dilapidation report to the Planning Secretary, TfNSW and Council                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Section 8.1                   |
| Operation of Plant and Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                               |
| A23. All plant and equipment used on site, or to monitor the performance of the development, must be:<br><br>d) Maintained in a proper and efficient condition; and<br>e) Operated in a proper and efficient manner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Section 8.1                   |
| Mamre Road Precinct Working Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                               |
| A39. Within three months of the commencement of earthworks for the development and until all components of the development are constructed and operational, the Applicant must 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:<br><br>a) comprise at least one representative of the Applicant, the Applicant's ER, and relevant consent holders in the MRP;<br>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;<br>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;<br>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;<br>e) review community concerns or complaints with respect to environmental management;<br>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 |  | Section 8.9                   |





| Development Consent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | CNVMP Section where Addressed                                                                                                           |     |      |                             |                 |              |          |              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------------------------|-----------------|--------------|----------|--------------|--|
| g) provide the Planning Secretary with an update and strategies, if a review under subclause 39(d) and 39(e) identifies additional measures and processes are required to be implemented by the working group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                                                                                                                                         |     |      |                             |                 |              |          |              |  |
| Hours of Work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                                                                                                                                         |     |      |                             |                 |              |          |              |  |
| B57. The Applicant must comply with the hours detailed in Table 2, unless otherwise agreed in writing by the Planning Secretary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | Section 6.2                                                                                                                             |     |      |                             |                 |              |          |              |  |
| Table 2 Hours of Work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                                                                                                                                         |     |      |                             |                 |              |          |              |  |
| <table><tr><th>Activity</th><th>Day</th><th>Time</th></tr><tr><td rowspan="2">Earthworks and construction</td><td>Monday – Friday</td><td>7 am to 6 pm</td></tr><tr><td>Saturday</td><td>8 am to 1 pm</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | Activity                                                                                                                                | Day | Time | Earthworks and construction | Monday – Friday | 7 am to 6 pm | Saturday | 8 am to 1 pm |  |
| Activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Day             | Time                                                                                                                                    |     |      |                             |                 |              |          |              |  |
| Earthworks and construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Monday – Friday | 7 am to 6 pm                                                                                                                            |     |      |                             |                 |              |          |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Saturday        | 8 am to 1 pm                                                                                                                            |     |      |                             |                 |              |          |              |  |
| B58. Work outside of the hours identified in condition D57 may be undertaken in the following circumstances:<br>a) works that are inaudible at the nearest sensitive receivers;<br>b) works agreed to in writing by the Planning Secretary;<br>c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or<br>d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 | Section 6.2                                                                                                                             |     |      |                             |                 |              |          |              |  |
| Construction Noise Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                                                                                                                                         |     |      |                             |                 |              |          |              |  |
| B59. 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 the Appendix 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | Section 1.1, 5.0, 7.1 and 8.0                                                                                                           |     |      |                             |                 |              |          |              |  |
| Construction Noise and Vibration Management Plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                                                                         |     |      |                             |                 |              |          |              |  |
| B60. 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:<br>a) be prepared by a suitably qualified and experienced noise expert whose appointment has been endorsed by the Planning Secretary;<br>b) be approved by the Planning Secretary prior to the commencement of earthworks for the development;<br>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);<br>d) describe the measures to be implemented to manage high noise generating works, such as piling, in close proximity to sensitive receivers;<br>e) include strategies that have been developed with the community for managing high noise generating works; and<br>f) describe the community consultation undertaken to develop the strategies in condition B60(e).<br>g) include a complaints management system that would be implemented for the duration of the development. |                 | This CNVMP<br><br>Section 1.0<br><br>Section 8.0<br><br>Section 8.5<br><br>Section 8.5<br><br>Refer to CEMP, Section 8.4<br>Section 8.3 |     |      |                             |                 |              |          |              |  |



| Development Consent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | CNVMP Section where Addressed               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------|
| <p>B61. The Applicant must:</p> <ul style="list-style-type: none"> <li>a) not commence earthworks until the Construction Noise and Vibration Management Plan required by condition B60 is approved by the Planning Secretary; and</li> <li>b) implement the most recent version of the Construction Noise and Vibration Management Plan approved by the Planning Secretary for the duration of construction.</li> </ul>                                                                                                                                                                   |  | <p>This CNVMP</p> <p><b>Section 9.0</b></p> |
| <b>Road Traffic Noise</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                             |
| <p>B70. Prior to the commencement of earthworks, 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.</p>                                                                                                                                                                                                                    |  | <p>Refer to CTMP in Appendix C of CEMP.</p> |
| <b>Vibration Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                             |
| <p>B71. Vibration caused by earthworks and construction at any residence or structure outside the site must be limited to:</p> <ul style="list-style-type: none"> <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> |  | <p><b>Section 5.3, 7.3, 8.1 and 8.2</b></p> |
| <p>B72. 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 B71.</p>                                                                                                                                                                                                                                                                                                                                                                                |  | <p><b>Section 7.3, 8.1, and 8.2</b></p>     |
| <p>B73. The limits in conditions B71 and B72 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.</p>                                                                                                                                                                                                                                                                                                                                                                            |  | <p>Conditions B71 and B72 apply.</p>        |





| Development Consent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CNVMP Section where Addressed                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                       |
| <p><b>Management Plan Requirements</b></p> <p>C1. Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:</p> <ul style="list-style-type: none"> <li>a) detailed baseline data;</li> <li>b) details of: <ul style="list-style-type: none"> <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> </li> <li>c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;</li> <li>d) a program to monitor and report on the: <ul style="list-style-type: none"> <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> </li> <li>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;</li> <li>f) a program to investigate and implement ways to improve the environmental performance of the development over time;</li> <li>g) a protocol for managing and reporting any: <ul style="list-style-type: none"> <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> </li> <li>h) a protocol for periodic review of the plan.</li> </ul> <p><i>Note: the Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans</i></p> | <p>This CNVMP</p> <p><b>Section 4.3</b></p> <p><b>Section 3.0</b></p> <p><b>Section 5.0</b><br/><b>Section 7.0 and 8.0</b></p> <p><b>Section 8.0</b></p> <p><b>Section 8.2</b></p> <p><b>Section 8.6</b></p> <p><b>Section 8.6, 8.7 and 9.0</b></p> <p><b>Section 8.3 and 8.6</b></p> |
| <b>Revision of Strategies, Plans and Programs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                       |
| <p>C8. Within three months of:</p> <ul style="list-style-type: none"> <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> </ul> <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p><b>Section 9.0</b></p>                                                                                                                                                                                                                                                             |



## 4.0 Existing Environment

### 4.1 Noise Catchment Areas

The assessment uses several Noise Catchment Areas (NCAs) that reflect the land uses in the study area and the existing background noise levels. These are shown in **Figure 1** and described in **Table 2**.

**Table 2 Noise Catchment Areas and Surrounding Land Uses**

| NCA        | Description                                                                                                                                                                                                                                                                                                                                                                |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCA-01     | NCA-01 covers sensitive receivers in Kemps Creek, to the south of the development and to the east of Mamre Road, within the MRP area. The nearest residential receiver is located around 10 m to the south of the development at 930 Mamre Road. Also included in this area are the BAPS temple and the Westlink Industrial Estate which are currently under construction. |
| NCA-02     | NCA-02 covers sensitive receivers in Kemps Creek, to the north west, west and south west of the development and to the west of Mamre Road, within the MRP area. The nearest residential receiver is located around 165 m from the development at 949 Mamre Road.                                                                                                           |
| NCA-03     | NCA-03 covers sensitive receivers in Mount Vernon and Horsley Park, to the east and south east of the development and the general MRP area. The nearest residential receivers are located around 2 km away along Capitol Hill Drive. Also located in this area are St Narsai Assyrian Christian College, Sts Peter and Paul Assyrian Church and Irfan College              |
| NCA-04     | NCA-04 covers sensitive receivers in Luddenham, to the west of the development and the general MRP area. The nearest residential receivers are located around 1.7 km away along Medinah Avenue. Also included in this area is the Twin Creeks Golf and Country Club located around 2 km away from the development.                                                         |
| NCA-05     | NCA-05 covers sensitive receivers in Orchard Hills, to the north west of the development and the general MRP area. The nearest residential receivers are located around 3 km away along Luddenham Road. Also included in this area is the Old MacDonald's Child Care Centre around 2 km away from the development.                                                         |
| NCA-06     | NCA-06 covers sensitive receivers in Kemps Creek, to the north of the development, within the MRP area. The nearest residential receivers are located around 1.5 km away along Bakers Lane. Also included in this area are the Emmaus Retirement Village, Mamre Anglican School, Trinity Catholic Primary School and Emmaus Catholic College.                              |
| NCA-07     | NCA-07 covers sensitive receivers in Badgerys Creek and Kemps Creek, to the south of the development and the general MRP area. The nearest residential receivers are located around 1 km to the south of the development at along Clifton Avenue. Also included in this area is the Christadelphian Heritage College Sydney.                                               |
| Industrial | Various industrial developments both existing and upcoming surround the development. The nearest industrial development to the development is the Aspect Industrial Estate (AIE). Warehouse 9 of this development is located around 30 m to the north.                                                                                                                     |





## 4.2 Nearest Sensitive Receivers

The nearest receivers (individual properties and residential areas) surrounding the site are detailed in **Table 3** and shown in **Figure 1**. These receivers align with Figure 9 and Figure 10 in Appendix 2 of the Development Consent and the SSDA NVIA for ALP.

It is noted that many of the nearest receivers have been demolished as part of works on other adjacent developments. Certain receivers have also been noted to be unoccupied or lie on vacant land.

Receivers that have been demolished, that are unoccupied or that lie on vacant land have been excluded from the assessment. These receivers are highlighted in the table below.

**Table 3 Nearest Sensitive Receivers as per the SSDA Consent and NVIA**

| ID#    | Address <sup>1</sup>                                       | Type        | Status                          | NCA        |
|--------|------------------------------------------------------------|-------------|---------------------------------|------------|
| 1A     | 885-899 Mamre Road, Kemps Creek                            | N/A         | Demolished <sup>1</sup>         | -          |
| 1B     | 901 Mamre Road, Kemps Creek                                | Residential | Occupied                        | NCA-02     |
| 1C     | 909 Mamre Road, Kemps Creek                                | Shed        | Unoccupied <sup>1</sup>         | -          |
| 1D     | 919-929 Mamre Road, Kemps Creek                            | Residential | Occupied                        | NCA-02     |
| 1E     | 931A Mamre Road, Kemps Creek                               | N/A         | Demolished <sup>1</sup>         | -          |
| 2      | 930 Mamre Road, Kemps Creek                                | Residential | Occupied                        | NCA-01     |
| 3      | 99 Aldington Road, Kemps Creek                             | N/A         | Demolished <sup>1</sup>         | -          |
| 4      | 772-782 Mamre Road, Kemps Creek                            | N/A         | Demolished <sup>1</sup>         | -          |
| 6      | (Aspect Industrial Estate) 864-882 Mamre Road, Kemps Creek | Industrial  | Under Construction <sup>2</sup> | Industrial |
| 7      | 141-251 Aldington Road Kemps Creek                         | N/A         | Vacant Land <sup>1</sup>        | -          |
| 5A     | 825 Mamre Road, Kemps Creek                                | Residential | Occupied                        | NCA-02     |
| 5B     | 833A Mamre Road, Kemps Creek                               | Residential | Occupied                        | NCA-02     |
| 5C     | 833B Mamre Road, Kemps Creek                               | Residential | Occupied                        | NCA-02     |
| 5D     | 845 Mamre Road, Kemps Creek                                | Residential | Occupied                        | NCA-02     |
| 5E     | 845 Mamre Road, Kemps Creek                                | Residential | Occupied                        | NCA-02     |
| 5F     | 859-869 Mamre Road, Kemps Creek                            | Residential | Occupied                        | NCA-02     |
| A & AJ | (Emmaus Catholic College) 87-109 Bakers Lane, Kemps Creek  | Educational | Occupied                        | NCA-06     |
| AA     | 150-156 Capitol Hill Drive, Mount Vernon                   | Residential | Occupied                        | NCA-03     |
| AB     | 45 Garfield Road, Horsley Park                             | Residential | Occupied                        | NCA-03     |
| AC     | 119 Mamre Road, Kemps Creek                                | Residential | Occupied                        | NCA-03     |
| AD     | 949-965 Mamre Road, Kemps Creek                            | Residential | Occupied                        | NCA-02     |
| AE     | 983A Mamre Road, Kemps Creek                               | Residential | Occupied                        | NCA-02     |
| AF     | 4 Ganton Way, Luddenham                                    | Residential | Occupied                        | NCA-04     |
| AG     | 18-6 Pennard Cres, Luddenham                               | Residential | Occupied                        | NCA-04     |
| AH     | 19 Medinah Avenue, Luddenham                               | Residential | Occupied                        | NCA-04     |



| ID#    | Address <sup>1</sup>                                                  | Type             | Status                          | NCA    |
|--------|-----------------------------------------------------------------------|------------------|---------------------------------|--------|
| AL     | (Trinity Catholic Primary School) 61-83 Bakers Lane, Kemps Creek      | Educational      | Occupied                        | NCA-06 |
| AM     | 25 Aldington Road, Kemps Creek                                        | N/A              | Demolished <sup>1</sup>         | -      |
| AO     | Vacant land along Capitol Hill Drive                                  | N/A              | Vacant Land <sup>1</sup>        | -      |
| AN     | Vacant land along Capitol Hill Drive                                  | N/A              | Vacant Land <sup>1</sup>        | -      |
| AP     | Vacant land near Greenway Place                                       | N/A              | Vacant Land <sup>1</sup>        | -      |
| AQ     | (BAPS Temple) 258 Aldington Road, Kemps Creek                         | Place of worship | Under Construction <sup>2</sup> | NCA-01 |
| B & AK | (Emmaus Retirement Village) 85 Bakers Lane, Kemps Creek               | Residential      | Occupied                        | NCA-06 |
| C & AI | (Mamre Anglican School) 45 Bakers Lane, Kemps Creek                   | Educational      | Occupied                        | NCA-06 |
| D      | (Old MacDonald's Child Care) 539-571 Mamre Road, Orchard Hills        | Childcare Centre | Occupied                        | NCA-05 |
| E      | (Twin Creeks Golf & Country Club) 2-8 Twin Creeks Drive, Luddenham    | Commercial       | Occupied                        | NCA-04 |
| F      | (St Narsai Assyrian Christian College) 217 Horsley Road, Horsley Park | Educational      | Occupied                        | NCA-03 |
| G      | (Sts Peter and Paul Assyrian Church) 32-40 Kosovich Place, Cecil Park | Place of worship | Occupied                        | NCA-03 |
| H      | (Irfan College) 2089 Elizabeth Drive, Cecil Park                      | Educational      | Occupied                        | NCA-03 |
| I      | (Christadelphian Heritage College Sydney) 10 Cross St, Kemps Creek    | Educational      | Occupied                        | NCA-07 |
| J      | (Residential Area) Mount Vernon                                       | Residential      | Occupied                        | NCA-03 |
| K      | (Residential Area) Horsley Park                                       | Residential      | Occupied                        | NCA-03 |
| L      | (Residential Area) Kemps Creek                                        | Residential      | Occupied                        | NCA-07 |
| M      | (Residential Area) Badgerys Creek                                     | Residential      | Occupied                        | NCA-07 |
| N      | (Residential Area) Mamre Road South                                   | Residential      | Occupied                        | NCA-04 |
| O      | 61 Bowood Road, Mount Vernon                                          | Residential      | Occupied                        | NCA-03 |
| P      | 62-66 Capitol Hill Drive, Mount Vernon                                | Residential      | Occupied                        | NCA-03 |
| Q      | 10 Greenway Place, Horsley Park                                       | Residential      | Occupied                        | NCA-03 |
| R      | 41-43 Greenway Place, Horsley Park                                    | Residential      | Occupied                        | NCA-03 |
| S      | 12-22 Bowood Road, Mount Vernon                                       | Residential      | Occupied                        | NCA-03 |
| T      | 243-247 Capitol Hill Drive, Mount Vernon                              | Residential      | Occupied                        | NCA-03 |
| U      | 62A Mount Vernon Road, Mount Vernon                                   | Residential      | Occupied                        | NCA-03 |
| V      | 20 Mount Vernon Road, Mount Vernon                                    | Residential      | Occupied                        | NCA-03 |
| W      | 37 Kerrs Road, Mount Vernon                                           | Residential      | Occupied                        | NCA-03 |
| X      | 1114 Mamre Road, Mount Vernon                                         | Residential      | Occupied                        | NCA-03 |





| ID# | Address <sup>1</sup>                 | Type        | Status   | NCA    |
|-----|--------------------------------------|-------------|----------|--------|
| Y   | 191 Kerrs Road, Mount Vernon,        | Residential | Occupied | NCA-03 |
| Z   | 147-159 The Appian Way, Mount Vernon | Residential | Occupied | NCA-03 |

Note 1: Receivers that have been demolished, that are unoccupied or that lie on vacant land have been excluded from the assessment.

Note 2: The Aspect Industrial Estate (Receiver ID – 6) and BAPS Temple (Receiver ID – AQ) are currently under construction. These receivers have been conservative assumed to be operational during the civil works for the development.

### 4.3 Existing Noise Surveys and Monitoring Locations

Baseline noise monitoring undertaken for publicly available noise assessments for other projects in the area has been used to characterise the existing noise environment and to set the criteria used to assess the potential noise impacts from construction of the development in each NCA. This is a conservative approach and minimises the possibility of noise creep.

The noise monitoring locations are detailed in **Table 4**. The NCA that each monitoring location represents are shown in **Figure 1**.

**Table 4 Noise Monitoring Locations**

| Noise Monitoring Location ID | Date of Monitoring | NCA    | Address                              | Reference                                                                                                                                |
|------------------------------|--------------------|--------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| L01                          | May 2019           | NCA-01 | 930-966 Mamre Road, Kemps Creek      | SSD-17647189 noise assessment (AcousticWorks report 1020168 R01N 884-928 Mamre Road Kemps Creek ENV Revision R01N, dated September 2021) |
| L02                          | March 2020         | NCA-02 | 1003 Mamre Road, Kemps Creek         |                                                                                                                                          |
| L03                          | November 2020      | NCA-03 | Mount Vernon Road, Mount Vernon      | SSD-9138102 noise assessment (RWDI report 2101343 Version B, dated February 2021).                                                       |
| L04                          | November 2020      | NCA-04 | 1 Medinah Avenue, Luddenham          | SSD-10101987 noise assessment (ARUP report SYD05-06-07_Y-R-0000 Revision 3, dated July 2021).                                            |
| L05                          | October 2020       | NCA-05 | 25-31 Mandalong Close, Orchard Hills | Mamre Road Upgrade Stage 1 noise assessment (SLR report 610.30064-R02-v1.0-20210719, dated July 2021).                                   |
| L06                          | April 2018         | NCA-06 | 1 Bakers Lane, Kemps Creek           | SSD-9522 noise assessment (AcousticWorks report 1018022 R01P Mamre Road Kemps Creek ENV Revision R01P, dated May 2019).                  |
| L07                          | June 2017          | NCA-07 | 203 Clifton Avenue, Kemps Creek      | TfNSW (formerly Roads and Maritime Services) M12 Motorway Environment Impact Statement, dated May 2019                                   |



The noise monitoring results are summarised in **Table 5**.

**Table 5 Summary of Unattended Ambient Noise Levels**

| ID  | Measured Noise Levels (dBA)    |                                |                                |                                           |                      |                    |
|-----|--------------------------------|--------------------------------|--------------------------------|-------------------------------------------|----------------------|--------------------|
|     | Background Noise (RBL)         |                                |                                | Average Noise (L <sub>Aeq</sub> (period)) |                      |                    |
|     | Day <sup>1</sup>               | Evening <sup>1</sup>           | Night <sup>1</sup>             | Day <sup>1</sup>                          | Evening <sup>1</sup> | Night <sup>1</sup> |
| L01 | 41                             | 41 <sup>2</sup><br>(45 actual) | 38                             | 56                                        | 53                   | 55                 |
| L02 | 46                             | 46                             | 41                             | 61                                        | 58                   | 58                 |
| L03 | 35 <sup>3</sup><br>(32 actual) | 33                             | 33 <sup>4</sup><br>(38 actual) | 44                                        | 46                   | 52                 |
| L04 | 37                             | 36                             | 33                             | 49                                        | 45                   | 45                 |
| L05 | 41                             | 41 <sup>2</sup><br>(42 actual) | 35                             | 53                                        | 52                   | 50                 |
| L06 | 44                             | 43                             | 37                             | _ <sup>5</sup>                            | _ <sup>5</sup>       | _ <sup>5</sup>     |
| L07 | 35 <sup>3</sup><br>(34 actual) | 35                             | 31                             | 53                                        | 51                   | 44                 |

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 (NPfI).

Note 2: RBL reduced to be no higher than the daytime RBL.

Note 3: RBL increased to the minimum RBL specified in the NPfI.

Note 4: RBL reduced to be no higher than the evening RBL.

Note 5: L<sub>Aeq</sub>(period) noise levels are not included in the referenced assessment.





## 5.0 Assessment Criteria

### 5.1 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 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 development.

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 and implemented as appropriate.

#### Residential Receivers

The ICNG approach for determining NMLs at residential receivers is shown in **Table 6**.

**Table 6 ICNG NMLs for Residential Receivers**

| Time of Day                                                                                                                                            | NML<br>LAeq(15minute)                      | How to Apply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Construction Hours<br>Monday to Friday<br>7:00 am to 6:00 pm<br>Saturday<br>8:00 am to 1:00 pm<br>No work on<br>Sundays or<br>public holidays | Noise affected<br>RBL <sup>1</sup> + 10 dB | <ul style="list-style-type: none"> <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> </ul>                                                                                                                                                                                                                            |
|                                                                                                                                                        | Highly Noise Affected<br>75 dBA            | <ul style="list-style-type: none"> <li>The Highly Noise Affected (HNA) level represents the point above which there may be a 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: <ul style="list-style-type: none"> <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> </li> </ul> |
| Outside Standard Construction Hours                                                                                                                    | Noise affected<br>RBL + 5 dB               | <ul style="list-style-type: none"> <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* (NPfI).



## 'Other Sensitive' Land Uses and Commercial Receivers

The ICNG NMLs for 'other sensitive' non-residential land uses are shown in **Table 7**.

**Table 7 NMLs for 'Other Sensitive' Receivers**

| Land Use          | Noise Management Level<br>LAeq(15minute) (dBA)<br>(Applied when the property is in use) |                 |
|-------------------|-----------------------------------------------------------------------------------------|-----------------|
|                   | Internal                                                                                | External        |
| Commercial        | -                                                                                       | 70              |
| Industrial        | -                                                                                       | 75              |
| Places of Worship | 45                                                                                      | 55 <sup>1</sup> |
| Educational       | 45                                                                                      | 55 <sup>1</sup> |
| Childcare Centres | 35 <sup>2</sup>                                                                         | 45 <sup>1</sup> |

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

Note 2: Internal noise level for sleeping areas in childcare centres taken from Association of Australasian Acoustical Consultants (AAAC) *Guideline for Child Care Centre Acoustic Assessment* (Version 3.0).

## Sleep Disturbance

A method for assessing sleep disturbance is contained in the NPfI. Although the NPfI sleep disturbance criteria relate to industrial noise, it is also considered relevant for reviewing potential impacts from construction noise as a screening criteria 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 LA<sub>Fmax</sub> or the prevailing background level plus 15 dB, whichever is the greater.

Works will be undertaken during standard daytime construction hours, in accordance with Condition B57. For works required during out-of-hours periods, and approved under Conditions B57 and B58, the sleep disturbance screening level of 52 dBA LA<sub>Fmax</sub> or the night-time RBL plus 15 dB, whichever is the greater will be applied.

### 5.1.1 NML Summary

The NMLs for the project have been determined in accordance with the requirements of the ICNG and are shown in **Table 8**.

**Table 8 Project-Specific Noise Management Levels (dBA)**

| NCA/<br>Receiver Type | NML (LAeq(15minute) – dBA)                      |                                        |         |                | Sleep Disturbance<br>Screening Level<br>(LAmax dBA) |
|-----------------------|-------------------------------------------------|----------------------------------------|---------|----------------|-----------------------------------------------------|
|                       | Standard<br>Construction<br>Hours<br>(RBL+10dB) | Out of Hours <sup>2</sup><br>(RBL+5dB) |         |                |                                                     |
|                       | Daytime <sup>1</sup>                            | Daytime                                | Evening | Night-<br>time | Night-time                                          |
| NCA-01/Residential    | 51                                              | 46                                     | 46      | 43             | 53                                                  |
| NCA-02/Residential    | 56                                              | 51                                     | 51      | 46             | 56                                                  |
| NCA-03/Residential    | 45                                              | 40                                     | 38      | 38             | 52                                                  |





| NCA/<br>Receiver Type | NML (LAeq(15minute) – dBA)                      |                                        |         |                | Sleep Disturbance<br>Screening Level<br>(LAmax dBA) |
|-----------------------|-------------------------------------------------|----------------------------------------|---------|----------------|-----------------------------------------------------|
|                       | Standard<br>Construction<br>Hours<br>(RBL+10dB) | Out of Hours <sup>2</sup><br>(RBL+5dB) |         |                |                                                     |
|                       | Daytime <sup>1</sup>                            | Daytime                                | Evening | Night-<br>time | Night-time                                          |
| NCA-04/Residential    | 47                                              | 42                                     | 41      | 38             | 52                                                  |
| NCA-05/Residential    | 51                                              | 46                                     | 46      | 40             | 52                                                  |
| NCA-06/Residential    | 54                                              | 49                                     | 48      | 42             | 52                                                  |
| NCA-07/Residential    | 45                                              | 40                                     | 40      | 36             | 52                                                  |
| Commercial            | 70                                              | 70 (when in use)                       |         |                | -                                                   |
| Industrial            | 75                                              | 75 (when in use)                       |         |                | -                                                   |
| Place of Worship      | 55                                              | 55 (when in use)                       |         |                | -                                                   |
| Educational           | 55                                              | 55 (when in use)                       |         |                | -                                                   |
| Childcare Centre      | 45                                              | 45 (when in use)                       |         |                | -                                                   |

Note 1: Daytime out of hours is 7 am to 8 am and 1 pm to 6 pm on Saturday, and 8 am to 6 pm on Sunday and public holidays.

Note 2: Works will be undertaken during standard daytime construction hours. Where out-of-hours works are required and are approved by the Planning Secretary, the out-of-hours NMLs apply. No such works are considered in this assessment.

Note 3: The BAPS Temple is currently under construction. The temple has been conservatively assumed to be operational during the construction of ALP.

## 5.2 Construction Road Traffic Noise Guidelines

The *NSW Road Noise Policy* (RNP) sets out noise criteria applicable to particular types of projects, road categories and land uses for the purpose of defining traffic noise impacts.

**Table 9** presents the most relevant RNP criteria for residential land uses affected by noise from additional traffic on a freeway, arterial, sub-arterial, or local road. Noise levels provided in **Table 9** are external noise levels and refer only to road traffic noise; they do not include ambient noise from other sources.

**Table 9 RNP Criteria for Assessing Construction Vehicles on Public Roads**

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

Note 1: The daytime and night-time periods are as per the NSW RNP.



Section 3.4 of the RNP also states:

*Where existing traffic noise levels are above the noise assessment criteria, the primary objective is to reduce these through feasible and reasonable measures to meet the assessment criteria. A secondary objective is to protect against excessive decreases in amenity as the result of a project by applying the relative increase criteria.*

*In assessing feasible and reasonable mitigation measures, an increase of up to 2 dB represents a minor impact that is considered barely perceptible to the average person.*

...

*For existing residences and other sensitive land uses affected by additional traffic on existing roads generated by land use developments, any increase in the total traffic noise level should be limited to 2 dB above that of the corresponding 'no build option'*

### 5.3 Construction Vibration Criteria

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

- Those in which the occupants of buildings are disturbed (**human comfort**). People can sometimes perceive vibration impacts when vibration-generating construction work is located close to occupied buildings. Vibration from construction work tends to be intermittent in nature and the EPA's *Assessing Vibration: a Technical Guideline* (2006) (AVaTG) provides criteria for intermittent vibration based on the Vibration Dose Value (VDV), as shown in **Table 10**.
- Those where building contents may be affected (**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 or medical imaging equipment, are in buildings near construction work. No such equipment has been identified in the study area.

Those where the integrity of the building may be compromised (**structural/cosmetic damage**). If vibration from construction work is sufficiently high, it can cause cosmetic damage to elements of affected buildings. Industry-standard cosmetic damage vibration limits are specified in British Standard BS 7385 are shown in **Table 11** and **Figure 4** and in German Standard DIN 4150 are shown in **Table 12**.

**Table 10 Human Comfort Vibration – Vibration Dose Values for Intermittent Vibration**

| 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    |





| Building Type                                                                 | Assessment Period | Vibration Dose Value <sup>1</sup><br>(m/s <sup>1.75</sup> ) |         |
|-------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------|---------|
|                                                                               |                   | Preferred                                                   | Maximum |
| Offices, schools, educational institutions and places of worship <sup>2</sup> | 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.

Note 2: BAPS Temple will not be operational during the construction period applicable to the Stage 1 CNVMP.

**Table 11 Cosmetic Damage – BS 7385 Transient Vibration Values for Minimal Risk of Damage**

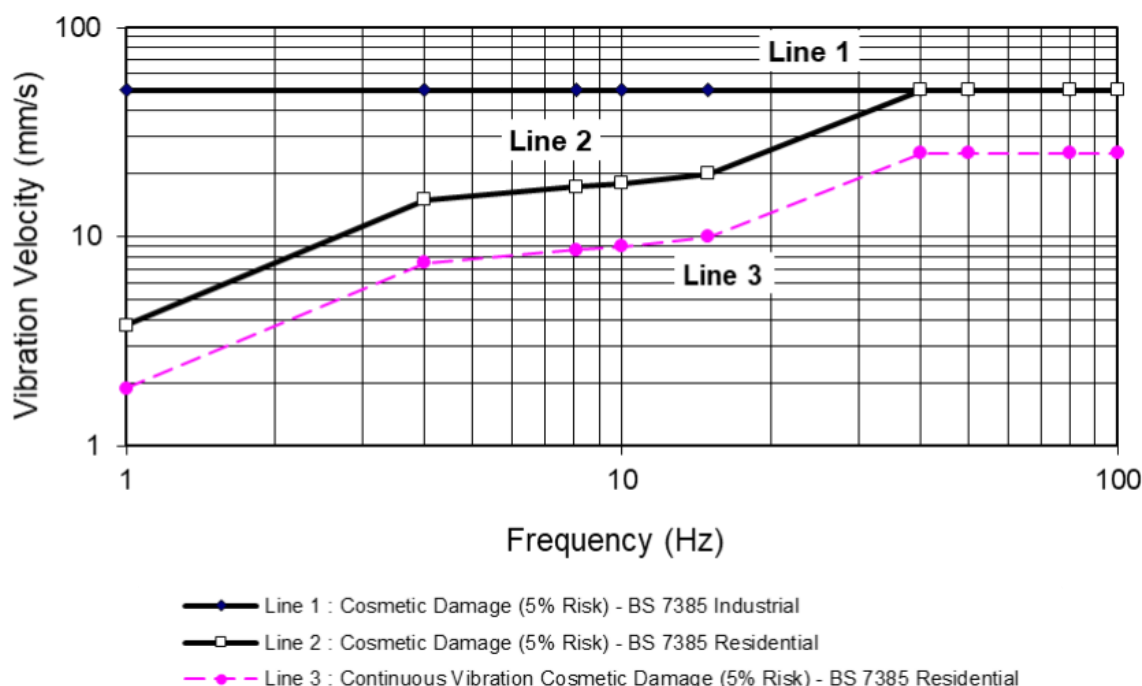
| Line | Type of Building                                                                          | Peak Component Particle Velocity in<br>Frequency Range of Predominant Pulse |                                                                 |
|------|-------------------------------------------------------------------------------------------|-------------------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

The standard states that the guide values in **Table 11** 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 11** 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 4 Graph of Transient Vibration Guide Values for Cosmetic Damage**



**Table 12 Cosmetic Damage – DIN 4150 Guideline Values for Short-term Vibration on Structures**

| Group | Type of Structure                                                                                                                                                                  | Guideline Values Vibration Velocity (mm/s)   |             |              |                           |                       |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------|--------------|---------------------------|-----------------------|
|       |                                                                                                                                                                                    | Foundation, All Directions at a Frequency of |             |              | Topmost Floor, Horizontal | Floor Slabs, Vertical |
|       |                                                                                                                                                                                    | 1 to 10 Hz                                   | 10 to 50 Hz | 50 to 100 Hz | All frequencies           | All frequencies       |
| 1     | Buildings used for commercial purposes, industrial buildings and buildings of similar design                                                                                       | 20                                           | 20 to 40    | 40 to 50     | 40                        | 20                    |
| 2     | Residential buildings and buildings of similar design and/or occupancy                                                                                                             | 5                                            | 5 to 15     | 15 to 20     | 15                        | 20                    |
| 3     | Structures that, because of their particular sensitivity to vibration, cannot be classified as Group 1 or 2 <b>and</b> are of great intrinsic value (eg heritage listed buildings) | 3                                            | 3 to 8      | 8 to 10      | 8                         | 20 <sup>1</sup>       |

Note 1: It may be necessary to lower the relevant guideline value markedly to prevent minor damage.

### 5.3.1 Heritage Buildings or Structures

Heritage-listed buildings and structures should be considered on a case-by-case basis but as noted in BS 7385 should not be assumed to be more sensitive to vibration, unless structurally unsound. Where a heritage building is deemed to be sensitive, the more stringent DIN 4150 Group 3 guideline values in **Table 12** can be applied.

No heritage buildings have been identified in the vicinity of the development.





### 5.3.2 Minimum Working Distances for Vibration Intensive Works

Minimum working distances for typical vibration intensive construction equipment are provided in the TfNSW *Construction Noise and Vibration Guideline* (CNVG) and are shown in **Table 13**.

The minimum working distances are for both cosmetic damage (from BS 7385 and DIN 4150) and human comfort (from the NSW EPA Vibration Guideline). They 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.

The minimum working distances for human comfort relate to continuous vibration. For most construction activities, vibration emissions are intermittent and for this reason, higher vibration levels occurring over shorter periods are allowed.

**Table 13 Recommended Minimum Working Distances from Vibration Intensive Equipment**

| Plant Item              | Rating/Description              | Minimum Distance                              |                                       |                                       |
|-------------------------|---------------------------------|-----------------------------------------------|---------------------------------------|---------------------------------------|
|                         |                                 | Cosmetic Damage                               |                                       | Human Response<br>(NSW EPA Guideline) |
|                         |                                 | Residential and Light Commercial<br>(BS 7385) | Heritage Items<br>(DIN 4150, Group 3) |                                       |
| 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                                          | 15 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                                   |



## 6.0 Assessment Methodology

### 6.1 Works Description

#### 6.1.1 Work Scenarios

A noise model of the study area has been used to predict noise levels from construction works to all receivers listed in **Section 4.2**. The model uses ISO 9613-2 algorithms implemented within the SoundPLAN 8.2 software package.

Representative scenarios have been developed to assess the likely impacts from the various construction phases of the development. These scenarios are shown in **Table 14** together with a high-level description of each works activity. The scenarios are based on information provided by Burton.

Details of the items of plant that would be used during each scenario, together with corresponding sound power levels, are provided in **Appendix B**.

**Table 14 Construction Scenario Descriptions**

| ID.                 | Name                                  | Description                                                                                       |
|---------------------|---------------------------------------|---------------------------------------------------------------------------------------------------|
| W.01                | Demolition                            | Demolition of existing buildings                                                                  |
| W.02                | Slashing and Tree Clearing            | Clearing of existing foliage on the development site                                              |
| W.03 <sup>1</sup>   | Topsoil Stripping                     | Removal of topsoil                                                                                |
| W.04 <sup>1,2</sup> | Bulk earthworks                       | Adjustments to ground surface levels and decommissioning of large dam                             |
| W.05 <sup>1</sup>   | Retaining walls                       | Construction of retaining walls                                                                   |
| W.06 <sup>1</sup>   | Stormwater Drainage                   | Construction of stormwater drainage infrastructure for the site                                   |
| W.07 <sup>1</sup>   | Services                              | Installation of services such as sewers, portable/recycled water, electricity and communications. |
| W.08 <sup>1</sup>   | Pavement Works – Boxout and Road Base | Construction and pavement of estate roads                                                         |
| W.09 <sup>1</sup>   | Pavement Works – Asphalt              |                                                                                                   |
| W.10 <sup>1</sup>   | Trunk Drainage/Basin Works            | Construction of drainage basins and associated infrastructure                                     |
| W.11 <sup>1</sup>   | Landscaping                           | Landscaping for the development after completion of works                                         |
| W.12                | Signage and Line marking              | Marking lanes along estate roads and installation of signage.                                     |

Note 1: An enclosed 4-inch pump will be used to pump water from the small dam into water carts which would be used for dust suppression.

Note 2: The larger dam would be de-watered with an enclosed 6-inch pump.





## 6.2 Hours of Construction

Condition B57 of the Development Consent requires construction activities to be undertaken during the following hours:

- 7:00 am to 6:00 pm, Mondays to Fridays
- 8:00 am to 1:00 pm on Saturdays
- At no time on Sundays or Public Holidays

Works outside of these hours may only be undertaken in the following circumstances (as noted in Condition B58):

- 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
- Where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

Where noisier internal works or any external works are required out-of-hours, a Construction Noise Impact Statement (CNIS) must be prepared detailing the proposed out-of-hours works activities, predicted noise and vibration impacts, and proposed mitigation and management measures. A CNIS for out-of-hours works, where required, will be provided to the Planning Secretary for approval prior to works being undertaken.

## 6.3 Construction Road Traffic

Transport Noise Model (TNM) has been used in SoundPLAN 8.2 to model traffic on the surrounding roads. The following has been included in the assessment:

- Heavy vehicle volumes have been modelled as 'heavy trucks' in TNM which results in a conservative assessment of the potential impacts.
- As per Condition B57 of the Development Consent construction activities are to be undertaken during standard hours only. Hence, off-site traffic noise has not been assessed during the night-time.
- Light vehicles leaving the development site have been modelled as accelerating as accelerating from the site exit.
- As access to the development site would be via a left-in/left-out intersection at the entrance of the development site, all construction-related traffic has been modelled as heading southbound along Mamre Road.

The potential noise impacts from additional traffic have been assessed based on traffic data provided by Burton shown in **Table 15**.



**Table 15 Traffic Volumes – Existing and Construction**

| Road                        | Existing Traffic Volumes <sup>1</sup> |       | Construction Traffic Volumes |                    |
|-----------------------------|---------------------------------------|-------|------------------------------|--------------------|
|                             | Daytime<br>(7am to 10pm)              |       | Daytime<br>(7am to 10pm)     |                    |
|                             | Light                                 | Heavy | Light                        | Heavy <sup>1</sup> |
| Mamre Road<br>(North Bound) | 6,796                                 | 1,591 | -                            | -                  |
| Mamre Road<br>(South bound) | 6,796                                 | 1,591 | 117                          | 96                 |

Note 1: Existing traffic volumes on Mamre Road has been taken from the M12 Motorway EIS and the total volume for Mamre Road has been assumed to split equally between northbound and southbound.





## 7.0 Construction Assessment

### 7.1 Construction Noise

The predicted noise levels for the assessed construction scenarios are shown in **Table 17** and **Table 18** which represent construction noise levels without mitigation and with mitigation applied, respectively.

The predictions are representative of the highest noise levels that could potentially be experienced at the surrounding receivers when the works are at the closest point. For most construction activities, it is expected that the construction noise levels would frequently be lower than those predicted, as the noise levels presented are based on all items of equipment in each scenario being used concurrently in the various work areas.

The assessment shows the predicted impacts based on the exceedance of the NMLs, as per the categories in **Table 16**.

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.

It is noted that the BAPS Temple and the AIE Warehouse 9 are currently under construction. These developments have been conservatively assumed to be operational during the civil works at ALP.

**Table 16 Exceedance Bands and Impact Colouring**

| Exceedance of NML                  | Subjective Classification | Impact Colouring |
|------------------------------------|---------------------------|------------------|
| No exceedance                      | Negligible                |                  |
| 1 to 10 dB                         | Low impact                |                  |
| 11 dB to 20 dB                     | Moderate impact           |                  |
| 21 dB to 30 dB                     | High impact               |                  |
| Highly Noise Affected <sup>1</sup> | Highly Noise Affected     |                  |

Note 1: 75 dBA or greater, at residential receivers.



**Table 17: Construction Noise Predictions at Sensitive Receivers – No Mitigation**

| NCA/<br>ReceiverType                   | NML<br>(dBA) | Predicted LAeq(15minute) Construction Noise Impact (dBA) <sup>1</sup> |                                         |                             |                           |                              |                                  |                    |                                               |                                 |                                       |                       |                                       |
|----------------------------------------|--------------|-----------------------------------------------------------------------|-----------------------------------------|-----------------------------|---------------------------|------------------------------|----------------------------------|--------------------|-----------------------------------------------|---------------------------------|---------------------------------------|-----------------------|---------------------------------------|
|                                        |              | W.01 -<br>Demolition                                                  | W.02 –<br>Slashing and<br>Tree Clearing | W.03 – Topsoil<br>Stripping | W.04 – Bulk<br>Earthworks | W.05 –<br>Retaining<br>Walls | W.06 –<br>Stormwater<br>Drainage | W.07 -<br>Services | W.08 –<br>Pavement<br>(Boxout &<br>Road base) | W.09 –<br>Pavement<br>(Asphalt) | W.10 –<br>Drainage and<br>Basin Works | W.11 –<br>Landscaping | W.12 –<br>Signage and<br>Lane Marking |
| 930 Mamre Road<br>(NCA-01/Nearest Res) | 51           | 82                                                                    | 87                                      | 75                          | 74                        | 64                           | 70                               | 65                 | 69                                            | 69                              | 57                                    | 67                    | 64                                    |
| 930B Mamre Road<br>(NCA-01/Other Res)  |              | 57                                                                    | 60                                      | 60                          | 59                        | 57                           | 54                               | 49                 | 53                                            | 53                              | 55                                    | 52                    | 48                                    |
| NCA-02/Residential                     | 56           | 55                                                                    | 59                                      | 58                          | 57                        | 56                           | 52                               | 47                 | 51                                            | 51                              | 55                                    | 50                    | 46                                    |
| NCA-03/Residential                     | 45           | 39                                                                    | 39                                      | 39                          | 38                        | 36                           | 33                               | 28                 | 32                                            | 32                              | 33                                    | 31                    | 27                                    |
| NCA-04/Residential                     | 47           | 36                                                                    | 38                                      | 37                          | 36                        | 35                           | 30                               | 25                 | 29                                            | 29                              | 32                                    | 29                    | 24                                    |
| NCA-05/Residential                     | 51           | 31                                                                    | 30                                      | 32                          | 31                        | 28                           | 26                               | 21                 | 25                                            | 25                              | 25                                    | 24                    | 20                                    |
| NCA-06/Residential                     | 54           | 35                                                                    | 36                                      | 39                          | 38                        | 33                           | 32                               | 27                 | 31                                            | 31                              | 32                                    | 31                    | 26                                    |
| NCA-07/Residential                     | 45           | 43                                                                    | 44                                      | 46                          | 45                        | 43                           | 38                               | 33                 | 37                                            | 37                              | 40                                    | 38                    | 32                                    |
| Commercial                             | 70           | 32                                                                    | 32                                      | 34                          | 33                        | 31                           | 28                               | 23                 | 27                                            | 27                              | 28                                    | 26                    | 22                                    |
| Industrial                             | 75           | 73                                                                    | 69                                      | 66                          | 65                        | 71                           | 50                               | 45                 | 49                                            | 49                              | 58                                    | 58                    | 44                                    |
| Place of Worship                       | 55           | 42                                                                    | 42                                      | 45                          | 44                        | 39                           | 38                               | 33                 | 37                                            | 37                              | 36                                    | 37                    | 32                                    |
| Educational                            | 55           | 36                                                                    | 37                                      | 40                          | 39                        | 33                           | 33                               | 28                 | 32                                            | 32                              | 33                                    | 32                    | 27                                    |
| Childcare Centre                       | 45           | 30                                                                    | 31                                      | 32                          | 31                        | 28                           | 26                               | 21                 | 25                                            | 25                              | 25                                    | 24                    | 20                                    |

Note 1: The highest prediction for each NCA/receiver type is presented for each scenario. Noise levels at all other receivers in each NCA or for a particular receiver group are likely to be lower.





The assessment of the worst-case construction impacts shows:

- Noise levels at the residential receivers in NCA-03, NCA-04, NCA-5 and NCA-06 as well as at all the assessed other non-residential noise sensitive receivers surrounding the development are predicted to comply with the NMLs for all assessed scenarios.
- Low impact exceedances of up to 3 dB are predicted at the nearest residential receivers in NCA-02 and NCA-07 during 'W.02 – Slashing and Tree Clearing' and 'W.03 – Topsoil Stripping' works. These exceedances are due to the operation of tub grinders and dozers near the development boundary during W.02 and W.03 respectively.
- Exceedances of between 24 and 36 dB are predicted at the upper floor of 930 Mamre Road, Kemps Creek in NCA-01 (the nearest residence) during the 'W.01 – Demolition', 'W.02 – Slashing and Tree Clearing' and 'W.03 – Topsoil Stripping' works. This receiver is considered to be 'Highly Noise Affected' as noise levels are predicted to be 75 dBA or greater for all three work scenarios. The predicted impacts are primarily from the operation of hydraulic hammers, tub grinders and dozers during W.01, W.02 and W.03 respectively.
- As noted in **Section 1.1**, the mitigation and management measures for Highly Noise Affected receivers as per **Section 8.0** includes 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.
- High impacts i.e. exceedances of up to 23 dB are predicted at the upper floor of 930 Mamre Road during 'W.04 – Bulk Earthworks' when mobile equipment such as scrapers, excavators (35 T), dump trucks (40 T), graders, compactors, rollers and watercarts are in use.
- Low to moderate impacts (i.e. 6 dB to 19 dB exceedances) are predicted at the upper floor of 930 Mamre Road during work scenarios W.05 to W.12.
- It should be noted that noise impacts at 930B Mamre Road which is located around 200 m to the south of the development in NCA-01 (the next nearest residence in NCA-01) are expected to be significantly lower than those at 930 Mamre Road and low impacts i.e. exceedances between 1 dB up to 9 dB are predicted during scenarios 'W.01 – Demolition', 'W.02 – Slashing and Tree Clearing', 'W.03 – Topsoil Stripping', 'W.04 – Bulk Earthworks', 'W.05 – Retaining Walls', 'W.06 – Stormwater Drainage', 'W.08 – Pavement (Boxout & Road base)', 'W.09 – Pavement (Asphalt)', 'W.10 – Drainage and Basin Works' and 'W.11 – Landscaping'.
- Individual receivers would be subject to a large range of potential noise levels and associated impacts, depending on how far from the works they are. The highest impacts would be apparent when works occur closest to the receiver. Noise levels would be significantly lower when works move further away from a particular receiver, or when less noisy equipment is in use.
- Feasible and reasonable construction noise mitigation measures should be applied where exceedances of the NMLs are predicted.

As a mitigation measure, construction noise from the development was modelled with the inclusion of a 3 m high and 100 m long noise barrier in the location shown in **Figure 5**. The predicted mitigated noise levels for the assessed construction scenarios are shown in



**Table 18.** The reduction in predicted noise levels due to the barrier is provided in parenthesis.





**Table 18 Construction Noise Predictions at Sensitive Receivers – With Mitigation**

| NCA/<br>ReceiverType                   | NML<br>(dBA) | Predicted LAeq(15minute) Construction Noise Impact (dBA)/(Reduction achieved (dB)) <sup>1</sup> |                                         |                             |                           |                              |                                  |                    |                                               |                                 |                                       |                       |                                       |
|----------------------------------------|--------------|-------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|---------------------------|------------------------------|----------------------------------|--------------------|-----------------------------------------------|---------------------------------|---------------------------------------|-----------------------|---------------------------------------|
|                                        |              | W.01 -<br>Demolition                                                                            | W.02 –<br>Slashing and<br>Tree Clearing | W.03 – Topsoil<br>Stripping | W.04 – Bulk<br>Earthworks | W.05 –<br>Retaining<br>Walls | W.06 –<br>Stormwater<br>Drainage | W.07 -<br>Services | W.08 –<br>Pavement<br>(Boxout &<br>Road base) | W.09 –<br>Pavement<br>(Asphalt) | W.10 –<br>Drainage and<br>Basin Works | W.11 –<br>Landscaping | W.12 –<br>Signage and<br>Lane Marking |
| 930 Mamre Road<br>(NCA-01/Nearest Res) | 51           | 78/ (-4)                                                                                        | 79/ (-8)                                | 72/ (-3)                    | 71/ (-3)                  | 63/ (-1)                     | 67/ (-3)                         | 62/ (-3)           | 66/ (-3)                                      | 66/ (-3)                        | 57                                    | 64/ (-3)              | 61/ (-3)                              |
| 930B Mamre Road<br>(NCA-01/Other Res)  |              | 56/ (-1)                                                                                        | 60                                      | 60                          | 59                        | 57                           | 54                               | 49                 | 53                                            | 53                              | 55                                    | 52                    | 48                                    |
| NCA-02/Residential                     | 56           | 55                                                                                              | 59                                      | 58                          | 57                        | 56                           | 52                               | 47                 | 51                                            | 51                              | 55                                    | 50                    | 46                                    |
| NCA-03/Residential                     | 45           | 38                                                                                              | 39                                      | 39                          | 38                        | 36                           | 33                               | 28                 | 32                                            | 32                              | 33                                    | 31                    | 27                                    |
| NCA-04/Residential                     | 47           | 36/ (-1)                                                                                        | 38                                      | 37                          | 36                        | 35                           | 30                               | 25                 | 29                                            | 29                              | 32                                    | 29                    | 24                                    |
| NCA-05/Residential                     | 51           | 31                                                                                              | 30                                      | 32                          | 31                        | 28                           | 26                               | 21                 | 25                                            | 25                              | 25                                    | 24                    | 20                                    |
| NCA-06/Residential                     | 54           | 35                                                                                              | 36                                      | 39                          | 38                        | 33                           | 32                               | 27                 | 31                                            | 31                              | 32                                    | 31                    | 26                                    |
| NCA-07/Residential                     | 45           | 43                                                                                              | 44                                      | 46                          | 45                        | 43                           | 38                               | 33                 | 37                                            | 37                              | 40                                    | 38                    | 32                                    |
| Commercial                             | 70           | 32                                                                                              | 32                                      | 34                          | 33                        | 31                           | 28                               | 23                 | 27                                            | 27                              | 28                                    | 26                    | 22                                    |
| Industrial                             | 75           | 73                                                                                              | 69                                      | 66                          | 65                        | 71                           | 50                               | 45                 | 49                                            | 49                              | 58                                    | 58                    | 44                                    |
| Place of Worship                       | 55           | 42                                                                                              | 42                                      | 45                          | 44                        | 39                           | 38                               | 33                 | 37                                            | 37                              | 36                                    | 37                    | 32                                    |
| Educational                            | 55           | 36                                                                                              | 37                                      | 40                          | 39                        | 33                           | 33                               | 28                 | 32                                            | 32                              | 33                                    | 32                    | 27                                    |
| Childcare Centre                       | 45           | 30                                                                                              | 31                                      | 32                          | 31                        | 28                           | 26                               | 21                 | 25                                            | 25                              | 25                                    | 24                    | 20                                    |

Note 1: The highest prediction for each NCA/receiver type is presented for each scenario. Noise levels at all other receivers in each NCA or for a particular receiver group are likely to be lower.



The above assessment of worst-case mitigated construction impacts shows:

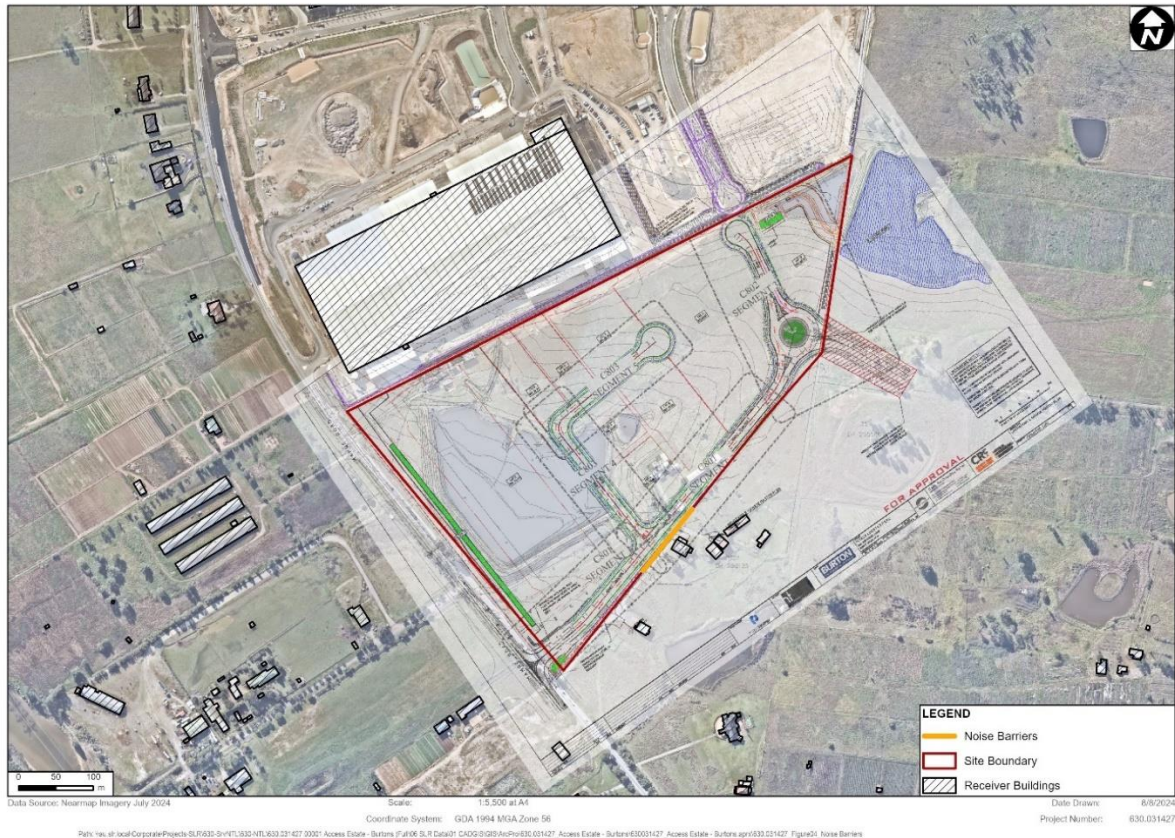
- A reduction in the predicted noise levels by up to 4 dB and 8 dB was noted at 930 Mamre Road, Kemps Creek in NCA-01 during 'W.01 – Demolition' works and 'W.02 – Slashing and Tree Clearing' works respectively. This level of reduction in noise levels can be expected only when hydraulic hammers and tub grinders operate near the development boundary. Additionally, up to 11 dB reduction in noise levels was predicted at the ground floor of this residence.
- Residual noise levels of up to 79 dBA are predicted at the upper floor of 930 Mamre Road during 'W.01 – Demolition' and 'W.02 – Slashing and Tree Clearing'. Hence, this receiver is likely to remain 'Highly Noise Affected' during W.01 and W.02 with the inclusion of a noise barrier.
- Noise levels are expected to reduce by up to 3 dB during work scenarios 'W.03 - Topsoil Stripping', 'W.04 - Bulk Earthworks', 'W.06 - Stormwater and Drainage', 'W.07 – Services', 'W.08 - Pavement (Boxout & Road base)', 'W.09 - Pavement (Asphalt)', 'W.11 – Landscaping' and 'W.12 - Signage and Lane Marking'. A lower reduction in noise levels is predicted as these work scenarios include mobile plant such as dozers, rollers, dump trucks, graders, etc that operate over a wider area.
- For 'W.05 – Retaining Walls', which occurs further away from the southern boundary of the development, noise levels are expected to reduce by up to 1 dB.
- The shielding effect of the barrier would be less prominent for works including mobile plant or occurring further away from the development's southern boundary. As such, lower noise impacts are expected when works occur at locations away from the boundaries of the development due to the increased separation from the activities.
- The barrier would be ineffective or its shielding effect would be less prominent at any of the other impacted receivers which are located 150 m to 200 m away in NCA-01, NCA-02 and NCA-07. Hence, extending the noise barrier's length or increasing its height is unlikely to further reduce noise levels at 930 Mamre Road or any of the impacted receivers located further away from the development.

Construction noise mitigation and management measures are discussed further in **Section 8.0**.





**Figure 5 Noise Barrier Location**



## 7.2 Construction Road Traffic

Based on the increase in the road traffic volumes due to the development during construction the increase in road traffic noise levels on Mamre Road is shown in **Table 19**.

**Table 19 Traffic Noise Assessment**

| Location                               | Road       | Predicted Road Traffic Noise Increase (dB)<br>Daytime (7 am to 10 pm_ |
|----------------------------------------|------------|-----------------------------------------------------------------------|
| Residential receivers along Mamre Road | Mamre Road | 0.3                                                                   |

The assessment shows that the predicted increase in traffic noise levels at the nearest residences on Mamre Road from construction vehicles associated with the civil works for the development is predicted to be a negligible 0.3 dB during the day period.

This increase is significantly less than 2 dB and in accordance with the NSW RNP represents a minor impact that is considered barely perceptible.

As such, the potential impacts from construction-related traffic on Mamre Road and the surrounding road network are expected to be negligible and no consideration of mitigation is required.



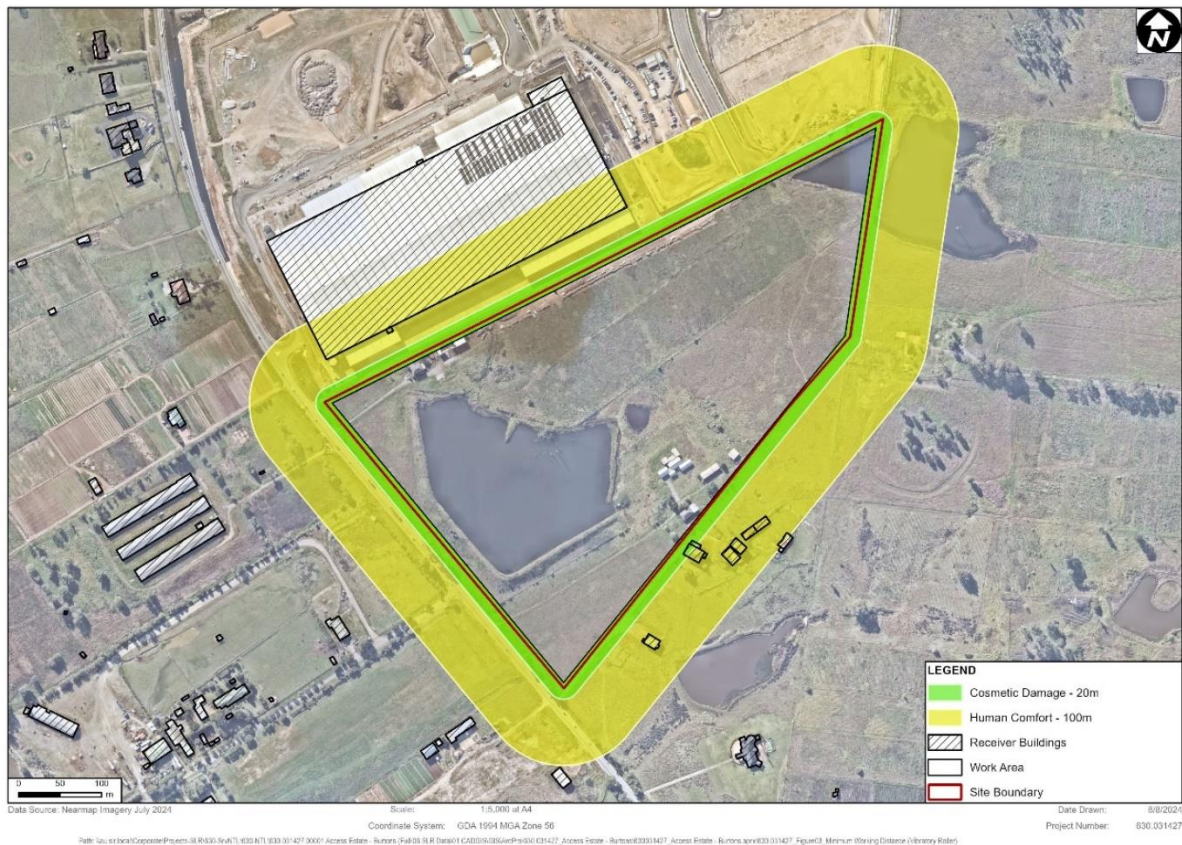
The major potential sources of vibration from the proposed construction activities would likely be during 'W.01 – Demolition', 'W.04 – Bulk Earthworks' and 'W.05 – Retaining Walls', when large hydraulic hammers (1,600 kg) and vibratory rollers (18 t) are being used.

**Figure 6 Construction Vibration – Large Hydraulic Hammer (1,600 kg)**





**Figure 7 Construction Vibration – Vibratory Roller (18 T)**



### Cosmetic Damage Assessment

The above figure shows that the residential building to the south of the development i.e. 930 Mamre Road, Kemps Creek is likely to be within the cosmetic damage minimum working distance when large hydraulic hammers (1,600 kg) and vibratory rollers (18 T) are in use at the southern boundaries of the development.

All other residential and industrial buildings surrounding the development site are sufficiently distant to be outside the minimum working distance and cosmetic damage impacts at these receivers are unlikely.

### Human Comfort Vibration Assessment

The above figure shows that the nearest industrial building i.e. AIE Warehouse 9 and the residential building to the south of the development i.e. 930 Mamre Road, Kemps Creek are likely to be within the human comfort minimum working distance when large hydraulic hammers (1,600 kg) and vibratory rollers (18 T) are in use at the southern boundaries of the development. The occupants of these buildings may be able to perceive vibration impacts at times when hydraulic hammers (1,600 kg) or vibratory rollers (18 T) are in use nearby. Where impacts are perceptible, they would likely only be apparent for relatively short durations when vibration-intensive equipment is in use.

All other residential and industrial buildings surrounding the development site are sufficiently distant to be outside the minimum working distance and human comfort impacts at these receivers are unlikely.



Feasible and reasonable construction vibration mitigation measures should be applied where vibration-intensive works are required within the minimum working distances. Construction mitigation and management measures are discussed further in **Section 8.0**.





## 8.0 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 and highlights the need for appropriate noise management, community consultation and planning. Noise levels during the civil works for ALP are expected to exceed the management levels at the nearest receivers in NCA-01, NCA-02 and NCA-07. The worst-case noise impacts are expected at 930 Mamre Road, Kemps Creek during all assessed construction scenarios. This receiver is expected to be 'Highly Noise Affected' during 'W.01 – Demolition' and 'W.02 – Slashing and Tree Clearing'.

The various mitigation and management measures to reduce potential impacts from construction activities as far as reasonable and feasible are described in this section.

Community notification has been undertaken in accordance with the Community Communication and Complaints Handling Strategy (refer to Appendix K of the CEMP).

All appropriate feasible and reasonable mitigation measures will be applied to the work to minimise the potential impacts, as far as practicable.

### 8.1 Standard Mitigation and Management Measures

The mitigation and management measures that would be applied to all construction works are detailed in **Table 20**.

**Table 20 Environmental Management Controls for Construction Noise and Vibration**

| Measure                                                                                                                                                                                                        | Person Responsible                                                     | Timing / Frequency | Reference / Notes |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------|-------------------|
| Project Planning                                                                                                                                                                                               |                                                                        |                    |                   |
| Use quieter and less noise and vibration emitting construction methods where feasible and reasonable.                                                                                                          | Project Manager, Site Supervisor and Environmental Site Representative | Ongoing            | Best practice     |
| Works will be completed during standard daytime construction hours outlined in Section 6.2.                                                                                                                    |                                                                        |                    |                   |
| Truck routes to the development site will be limited to major roads (refer to CTMP in Appendix C of CEMP).                                                                                                     |                                                                        |                    |                   |
| Site Layout                                                                                                                                                                                                    |                                                                        |                    |                   |
| Compounds and worksites will be designed to promote one-way traffic and minimise the need for vehicle reversing.                                                                                               | Project Manager, Site Supervisor and Environmental Site Representative | 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 to the Contractor's Project Manager. This must occur any time there are significant changes to the site layout.                                   |                                                                        |                    |                   |
| 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 and Site Supervisor                                    | 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 (refer Consent Condition A23).                     | Project Manager, Site Supervisor and Environmental Site Representative | 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).                                                        |                                                                        |                    |                   |
| Noisy equipment will be sited behind structures that act as barriers, or at the greatest distance from the noise-sensitive area. Equipment will be oriented so that noise emissions are directed away from any sensitive areas, where possible. |                                                                        |                    |                   |
| 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.                                                                                                                       |                                                                        |                    |                   |





| Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Person Responsible                                                            | Timing / Frequency | Reference / Notes |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------|-------------------|
| Truck movements will be kept to a minimum, ie trucks are fully loaded on each trip.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                               |                    |                   |
| <b>Screening</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                               |                    |                   |
| <p>The layout of the work 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.</p> <p>A noise barrier, 3 m high and 100 m long will be built in the position indicated in <b>Figure 5</b>. Where feasible, noisy equipment will be operated behind and as near to the barrier as possible. The base of the noise barrier should be at the same elevation as the ground floor of 930 Mamre Road. Where the noise barrier must be built at a lower elevation, the barrier's height will need to be increased to achieve a similar degree of shielding to the upper floor of this residence as the modelled barrier.</p> <p>The noise barrier should be constructed of a material with a minimum surface mass 15kg/m<sup>2</sup> and should be continuous over its length and have no gaps.</p> <p>A verification of the noise barrier design is required prior to installation and an inspection of its construction is required after installation, by a suitably qualified Acoustic Consultant.</p> | Project Manager, Site Supervisor and Environmental Site Representative        | Ongoing            | Best practice     |
| <b>Complaints Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                               |                    |                   |
| Where complaints are received, work practices will be reviewed and feasible and reasonable practices implemented to minimise any further impacts. Refer to <b>Section 8.3</b> and Section 5 of the <i>Community Consultation and Complaints Handling Strategy</i> prepared by Burton Contractors in April 2024, attached as Appendix K in the CEMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Project/Site Engineer and Communications and Community Liaison Representative | Ongoing            | Best practice     |
| <b>Monitoring</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                               |                    |                   |
| Attended noise and/or vibration monitoring (as per requirements in <b>Section 8.2</b> ) will be conducted (as appropriate) when noise/vibration intensive works are being undertaken in close proximity to sensitive receivers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Project Manager, Site Supervisor and Environmental Site Representative        | Ongoing            | Best practice     |



| Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Person Responsible                                                     | Timing / Frequency | Reference / Notes |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------|-------------------|
| Attended noise and/or vibration monitoring (as per requirements in <b>Section 8.2</b> ) will be conducted (as appropriate) in response to any complaints received to verify that levels are not substantially above the predicted levels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |                    |                   |
| Real-time unattended noise monitoring at 930 Mamre Road, Kemps Creek (see <b>Figure 8</b> ) (as per requirements in <b>Section 8.2</b> ) during the works to ensure noise levels are consistent with predicted noise levels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                        |                    |                   |
| Vibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |                    |                   |
| <p>If vibration generating works are required within the minimum cosmetic damage working distances (refer <b>Table 13</b>) impacts are considered likely to exceed the criteria. In which case, the following steps are to be undertaken:</p> <ul style="list-style-type: none"><li>- Different construction methods with lower source vibration levels will be investigated and implemented, where feasible</li><li>- Attended vibration measurements (as per requirements in <b>Section 8.2</b>) will be undertaken at the start of the works to determine actual vibration levels at the item. Works will cease if the monitoring indicates vibration levels are likely to, or do, exceed the relevant criteria.</li></ul> | Project Manager, Site Supervisor and Environmental Site Representative | Ongoing            | Best practice     |
| <p>Where works are required within the cosmetic damage minimum working distances (refer <b>Table 13</b>), building condition surveys and public infrastructure dilapidation surveys (refer Condition A15(b)) will be completed before and after the works to ensure no cosmetic damage has occurred.</p>                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |                    |                   |

## 8.2 Monitoring

Condition C1(d) requires management plans to include a program to monitor and report on the impacts and environmental performance of the development.

### 8.2.1 Confirmation of Construction Activities Prior to Commencement

Prior to the commencement of construction, the methodology and equipment will be reviewed to confirm that the assumptions in this 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.





## 8.2.2 Construction Noise Monitoring

### Verification Monitoring

Validation of noise levels during high noise works must be conducted in advance of commencement of the works, ie test measurements of the equipment undertaking the works for a short period prior to full commencement of the works.

Verification monitoring is required to be undertaken prior to the commencement of any proposed out-of-hours works, to verify that construction noise and vibration are consistent with the predictions in this noise assessment, and to ensure that mitigation and management of construction noise and vibration is appropriate for receivers affected by the works. This should be done by undertaking measurements of the equipment required for the works for a short period (during standard construction hours) prior to full commencement of the works.

### Attended Monitoring in Response to Complaints

Attended noise monitoring must be undertaken in response to any formal complaints as appropriate following an initial investigation into the complaint. All monitoring will be completed by suitably qualified acoustic specialists. The location and extent of attended monitoring will be determined in consultation with project staff and will be dependent on the activities taking place. A noise monitoring report will be prepared after each attended monitoring survey.

### Periodic Attended Monitoring

Periodic attended noise measurements must be conducted by a suitably qualified Acoustic Consultant at a representative receiver or site boundary locations to monitor noise levels. This should be done on a monthly basis, and more frequently when significant new plant and equipment arrive on site.

The routine monitoring will take place during the expected noisiest construction periods and be representative/indicative of the impacts at the potentially affected sensitive receivers. A monthly monitoring report will be prepared summarising the measurement results and any relevant site activity observations.

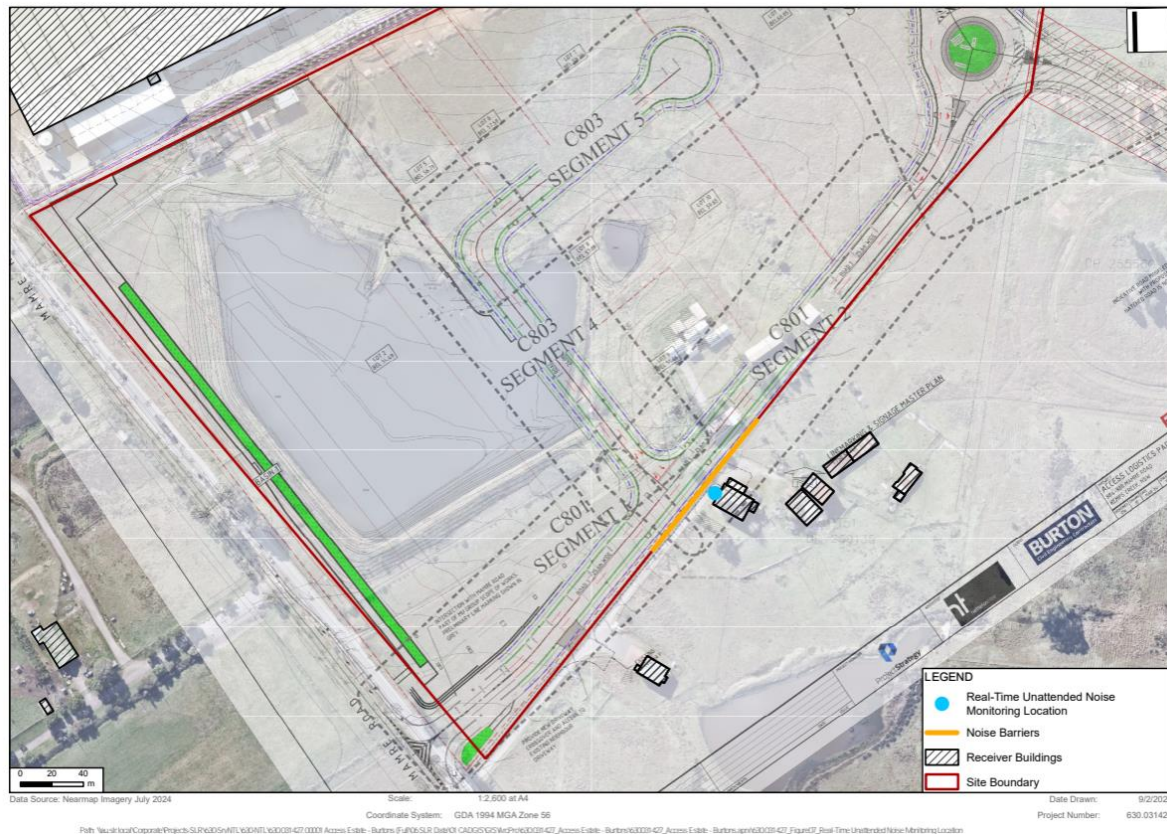
All items of acoustic instrumentation utilised will be designed to comply with IEC 61672.1-2013 *Electroacoustics – Sound level meters* (AS IEC 61672) and carry current calibration certificates.

### Real-Time Noise Monitoring

Real-time unattended noise monitoring will be conducted at 930 Mamre Road, Kemps Creek (**Figure 8**) during the works to ensure noise levels are consistent with predicted noise levels. It is recommended that monitoring be conducted on the upper floor balcony of this residence (where permission is granted) as this location will be more exposed to noise from construction works.



**Figure 8 Real-Time Unattended Noise Monitoring Location**



## 8.2.3 Construction Vibration Monitoring

### Cosmetic Damage Monitoring

Where vibration-intensive equipment (such as hydraulic hammers or vibratory rollers) is required within the minimum working distances of sensitive receivers or structures (refer to **Section 5.3.2**), vibration will be monitored continuously for the duration of works within the minimum working distances.

Attended vibration measurements (PPV) will be undertaken at 930 Mamre Road, Kemps Creek at the start of vibration-intensive works within the minimum working distances to confirm the levels of vibration are below the applicable vibration limits (refer to **Section 5.3**).

Geophones will be installed by an acoustic consultant 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 geophones will be relocated to remain at the closest point of the structure to the works.

The vibration monitoring equipment will have visible and audible alarms and will be enabled to send email or SMS alerts to the responsible site personnel. Audio/visual alarms will be installed where operators of equipment can see/hear them:

- A warning vibration level of two-thirds (66%) of the applicable vibration limit will trigger a 'warning' alarm if exceeded.
- A 'halt work' alarm will trigger if vibration is measured equal to the applicable vibration limit. Actions to be carried out if the exceedance alarms are triggered are detailed in **Section 8.6**.





Vibration monitoring data will be downloaded and reported at the following timeframes:

- Monthly during works (at a minimum)
- Within one week of an exceedance of the vibration limit alarm level
- Upon completion of vibration monitoring.

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

### Human Comfort Monitoring

Where vibration intensive works are required to be undertaken within the safe working distances for human comfort presented in **Table 13**, attended vibration (VDV) monitoring will be conducted by an acoustical consultant, to ensure acceptable levels of vibration are satisfied. Attended vibration monitoring will also be carried out in response to complaints as appropriate following an initial investigation into the complaint. This monitoring will provide direct feedback to the operators in order to allow appropriate modification of construction techniques.

Vibration would be measured using an accelerometer located on the floor within the most affected/sensitive room of the affected premises. The accelerometer would be mounted in accordance with the requirements of AS 2775-2004, as required by the AVaTG.

Attended vibration monitoring for human comfort will be conducted at the upper floor (if applicable) of the following addresses at the start of vibration-intensive works:

- 930 Mamre Road, Kemps Creek
- Dock office of Warehouse 9 at AIE

### 8.2.4 Monitoring Reports

Noise and/or vibration monitoring reports will be provided to the Environmental Representative (ER) and distributed in accordance with the requirements of the Consent Conditions. Monitoring reports would include the following details, at 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
- Construction activities being undertaken during measurements
- Locations of construction equipment and distance from monitoring location
- Measured  $L_{Aeq}$  noise levels during construction works (for each activity) along with a comparison to the predicted noise levels (noise monitoring only)
- Measured  $L_{A90}$  background noise level in the absence of the construction works (noise monitoring only)
- Measured vibration levels during construction works (for each activity) along with a comparison to the relevant vibration criteria (vibration monitoring only)
- Measured vibration levels and relevant details of any of exceedance of the warning vibration level or vibration limits (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.

### 8.3 Complaints Management

Condition B60(g) requires the CNVMP to include a complaints management system to be implemented for the duration of the development.

The complaints management procedure is described in detail in Section 5 of the *Community Consultation and Complaints Handling Strategy* (prepared by Burton Contractors for Access Logistics Estate – Mamre Road Kemps Creek, dated 19 April 2024), attached as Appendix K in the CEMP. This procedure is intended to ensure that the issues are addressed, and that appropriate corrective action is identified and implemented as necessary.

As per this document, the following will be ensured by Burton:

- Prior to the commencement of construction works, a project phone number and email will be established to receive complaints through which the community will be directed to the contact person responsible for response.
- Contact details and up-to-date information about the project will be provided for all communication activities.
- A Complaints Register will be established and updated monthly. In this register, details relating to the complaint, the complainant, the response, actions to prevent reoccurrence and follow-ups will be recorded.
- Community concerns or complaints with respect to environmental management, recorded in the register will be included in discussions with the Mamre Road Working Group.
- The Complaints Register will be shared with the appointed Environmental Representative (ER) who will provide recommendations to manage community impacts and to assist the Department in the resolution of complaints.
- The established Complaint Handling and Management Process will be implemented.
- A Community Relations Team member/Community Liaison will be appointed to record complaints and provide responses to the complainant outlining the remedial measures put in place.

In general, where a complaint is identified to be in relation to construction noise or vibration, the following points should be noted:

- The Community Relations Team member/Community Liaison will investigate the complaint in order to determine whether a criterion exceedance has occurred or whether noise has occurred unnecessarily.
- If excessive or unnecessary noise/vibration has been caused, corrective action will be planned and implemented by the construction contractor.
- Noise monitoring or vibration monitoring (for works within the minimum working distances (see **Section 5.3.2**) will be conducted in response to complaints as per **Section 8.2.2** and **Section 8.2.3** respectively.





- Complainants will be informed by the Community Relations Team member that their complaints are being addressed, and (if appropriate) that corrective action is being taken.
- Follow-up noise or vibration monitoring or other investigations will be carried out by Community Relations Team member and the construction contractor to confirm the effectiveness of the corrective action.
- Complainants will be informed of the implementation of the corrective action that has been taken to mitigate the adverse effects.

The Complaint Channels for the construction works are provided in Section 5.3 of the *Community Consultation and Complaints Handling Strategy* prepared by Burton Contractors and is reproduced in **Table 21** below.

**Table 21 Project Contact Details for Stakeholder Enquiries and Complaints**

| Channel             | Details                                                            |
|---------------------|--------------------------------------------------------------------|
| Contact person      | Joshua Macree (Burton Contractors Community Relations Team member) |
| Mailing address     | 11-21 Underwood Road, Homebush, NSW, 2140                          |
| Phone number        | 0429 528 430                                                       |
| Email               | joshua.Macree@burtoncontractors.com.au                             |
| Website             | www.burtoncontractors.com.au                                       |
| Site Representative | Zacharia Youssef (Project Manager)                                 |

## 8.4 Community Consultation

Community consultation has been conducted in accordance with the *Community Consultation and Complaints Handling Strategy* prepared by Burton Contractors.

Community Stakeholders were informed of the development and requested for their input via formal letter. These letters were delivered via post and/or via email to known contacts at the Residence, Businesses, Schools, Childcare and Aged Care Facilities located on Bakers Lane.

The commentary from the community in relation to the project is summarised below:

- One Resident sought to understand that all noise, traffic and dust would be regulated, and that complaints would be actioned, and mitigations undertaken promptly. Same resident advised that they were generally supportive of the development.
- They were ensured that all noise mitigation strategies would be implemented as per the SSD consent conditions and their complaints will be heard and actioned.
- Another Resident sought further information on the project and its proximity to their property, advising that current industrial and warehousing development in the area were having an adverse impact on them with respect to operational noise. The location of the proposed site was reviewed with the resident, revealing the subject site was approximately 3.7km from the resident's property and unlikely to impact upon them.



Based on the above discussions, Burton has noted that

- The proximity of our stakeholders drastically determines the impact that noise and vibration will have on their property.
- Noise and Vibration complaints will be actions promptly with effective resolutions.
- Regulation and methodical monitoring of noise and vibration will be implemented onsite to ensure our sensitive receivers are not impacted by the construction works.

## 8.5 Consultation Strategy to Manage High Noise Generating Works

At least seven days prior to the commencement of any high noise generating work, Burton will distribute a letter to the local community with details on the type of work being completed, the duration of the work and the potential noise impacts. This letter will also include the following details:

- Channels for making complaints relating to noise impacts (as per Section 5.3 of the *Community Consultation and Complaints Handling Strategy* prepared by Burton Contractors).
- Provide an opportunity for receivers to advise the project team of any specific concerns regarding the nature, timing or duration of noise generating works
- The noise mitigation and management strategies in place to control noise and vibration impacts

As detailed in **Section 7.1**, the residence at 930 Mamre Road, located around 10 m to the south of the development, is expected to be Highly Noise Affected (i.e. construction noise levels are predicted to be 75 dBA) during 'W.01 – Demolition' and 'W.02 – Slashing and Tree Clearing'. Hence, the letter will provide an opportunity to the residents of this receiver to provide feedback on additional mitigation and management strategies. Prior to commencement of construction works, Burton will specifically consult with this receiver and inform them of the following:

- Potential noise impacts expected throughout the construction works
- Advise the residents regarding the requirement to construct a noise barrier (see **Table 20**)
- Advise the residents regarding the requirement for noise monitoring in accordance with **Section 8.2**.
- Seek input from the residents regarding the required mitigation measures as well as other measures such as respite offers or conducting high impact works while the residents are not present.

## 8.6 Contingency Plan

Condition C1(e) requires management plans to include a contingency plan to manage any unpredicted impacts and their consequences.

The following contingency management plan, shown in **Table 22**, would be used to manage noise and vibration impacts that are higher than expected.

Any incident or non-compliance shall be handled and reported in accordance with the CEMP.

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





- Trigger of Condition Red for noise and vibration impacts during the standard construction hours detailed in **Section 6.2**.
- Any works occurring outside the standard construction hours, where those works do not meet the allowable circumstances, including being agreed in writing by the Planning Secretary.



**Table 22 Contingency Management Plan**

| Key Element                                   | Trigger / Response | Condition Green                                                              | Condition Amber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition Red                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------|--------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Noise impacts at sensitive receiver locations | Trigger            | Noise levels do not exceed applicable NMLs<br><br>No complaints are received | Periodic Attended Noise Monitoring (see <b>Section 8.2.2</b> ) indicate that noise levels exceed applicable NMLs<br><br>Multiple noise complaints (more than one from either the same or different resident) regarding a particular activity or ongoing construction works.                                                                                                                                                                                                                                                        | Periodic attended noise monitoring (see <b>Section 8.2.2</b> ) or complaints-related attended noise monitoring indicates that noise levels exceed Highly Noise Affected criteria (75 dBA)                                                                                                                                |
|                                               | Response           | On-going best practice management measures to minimise noise emissions       | Stop works and investigate.<br><br>Complaint will be directed to the responsible person who will determine the source of the noise and take immediate steps as per Complaints Management procedure (see <b>Section 8.3</b> ).<br><br>A suitably qualified acoustic consultant will be engaged to conduct attended noise monitoring (see <b>Section 8.2.2</b> )<br>Where NMLs are found to be exceeded, undertake all feasible and reasonable mitigation and management measures to minimise noise impacts (aiming to achieve NMLs) | Stop works and implement the requirements under Condition Amber in addition to the following:<br><br>Works exceeding the Highly Noise Affected criteria will be managed in accordance with the strategies for high noise-generating works determined through community consultation, as detailed in <b>Section 8.4</b> . |





| Key Element                                       | Trigger / Response | Condition Green                                                                                                                                      | Condition Amber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition Red                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vibration impacts at sensitive receiver locations | Trigger            | <p>Vibration-intensive works undertaken outside the minimum working distance for the specific equipment in use</p> <p>No complaints are received</p> | <p>Vibration-intensive works undertaken within the minimum working distance for the specific equipment in use</p> <p>Multiple vibration complaints (more than one from either the same or different resident) regarding a particular activity or ongoing construction works.</p>                                                                                                                                                                                                                                                                                   | <p>Vibration levels are found to be above the applicable vibration limits (see <b>Section 5.3</b>) following attended noise monitoring.</p>                                                                                                                                                    |
|                                                   | Response           | <p>On-going best practice management measures to minimise vibration emissions</p>                                                                    | <p>Building condition surveys and public infrastructure dilapidation surveys (refer Condition A15(b)) will be completed before and after the works to ensure no cosmetic damage has occurred.</p> <p>Complaint will be directed to the responsible person who will determine the source of the vibration and take immediate steps as per Complaints Management procedure (see <b>Section 8.3</b>).</p> <p>A suitably qualified acoustic consultant to be engaged to conduct vibration monitoring works to confirm vibration levels (see <b>Section 8.2.3</b>).</p> | <p>Stop work.</p> <p>Undertake all feasible and reasonable mitigation and management measures to ensure vibration levels are below applicable limits</p> <p>If vibration levels cannot be kept below applicable limits then a different construction method or equipment must be utilised.</p> |



## 8.7 Internal Audits

Periodic internal audits will be conducted to ensure that the development consent conditions and commitments and environmental management controls outlined in this CNVMP are being properly implemented.

## 8.8 Roles and Responsibilities

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

### 8.8.1 Contractor's Project Manager

- Ensuring appropriate resources are available for the implementation of this CNVMP
- Assessing data from inspections and providing project-wide advice to ensure consistent approaches and outcomes are achieved
- Providing necessary training for project personnel to cover noise and vibration management
- Reviewing and update of this CNVMP, where necessary
- Commissioning suitably qualified consultants to complete attended noise and vibration monitoring when required by this CNVMP.
- Ensuring competent project team members undertake routine attended noise 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, implement the procedure outlined in **Section 8.3**.

### 8.8.2 Environmental Site Representative

- Coordinating noise and/or vibration monitoring program, where required
- Reviewing control measures in accordance with the CNVMP
- Identifying and reporting any high or non-compliant noise and vibration emissions.

### 8.8.3 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.

## 8.9 Potential Cumulative Impacts in Mamre Road Precinct

Cumulative impacts can be caused by the compounding effects of multiple projects in an area, and by the accumulation of effects from past, current and future activities as they arise.





Cumulative construction noise impacts can occur where multiple work activities are being completed near a particular receiver at the same time.

The construction of ALP will likely coincide with works at the adjacent AIE site, the Aldington Road Industrial Estate and the BAPS temple, all of which lie in the wider Mamre Road Precinct. There is potential for receivers in the area to be subject to increased construction impacts due to cumulative construction on the various lots of ALP and the various other sites within the Mamre Road Precinct.

In response to this, the Mamre Road Precinct (MRP) Working Group has been established which includes the following members (which are the main developers in the MRP):

- Mirvac Project Pty Ltd (SSD-10448)
- ESR Developments (Australia) Pty Ltd (SSD-9138102)
- Burton Contractors Pty Ltd (SSD-17647189)
- Stockland Fife Kemps Creek Pty Ltd (SSD-10479)
- GPT Pty Ltd (SSD-10272349)
- Barings Real Estate Australia (SSD-17641789)

The MRP Working Group (as required by Condition A39) aims to ensure regular communication and cooperation between the main developers of the MRP, with shared commitments across the group (such as a Driver Code of Conduct and regular noise/vibration monitoring, where appropriate) to ensure that potential cumulative impacts from the MRP are minimised as far as possible.

## **9.0 Review and Improvement of Noise Management Plan**

Condition C1(f) requires management plans to include a program to investigate and implement ways to improve the environmental performance of the development over time.

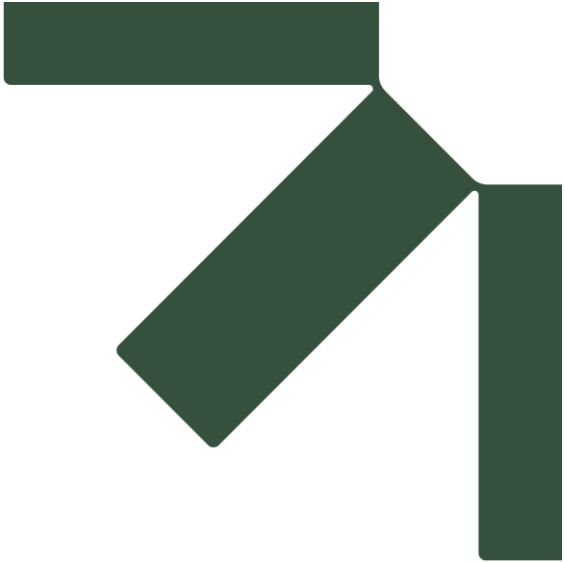
Reviews, investigations, and improvements to this plan and the environmental performance shall be undertaken in accordance with the CEMP.

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

- Significant changes to the equipment, machinery and plant operated within the development site
- Where it is identified via monitoring that the performance of the project is not meeting the objectives of the CNVMP
- When required by Condition C8 (see Section 7 of CEMP).

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

## **Access Logistics Park**

**884 – 928 Mamre Road, Kemps Creek  
Construction Noise and Vibration Management Plan – Civil Works**

**Burton Contractors Pty Ltd**

SLR Project No.: 610.031427.00002

2 September 2024



### 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 quiet     |
| 50                         | General Office                             |                       |
| 40                         | Inside private office                      | Quiet to very quiet   |
| 30                         | Inside bedroom                             |                       |
| 20                         | Recording studio                           | Almost silent         |

Other weightings (eg B, C and D) are less commonly used than A-weighting. 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

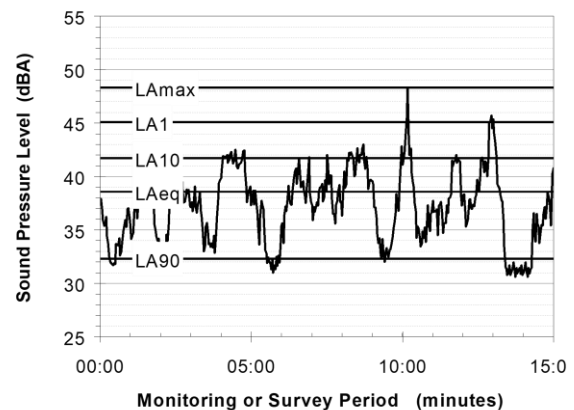
The Sound Power of a source is the rate at which it emits acoustic energy. As with Sound Pressure Levels, Sound Power Levels are expressed in decibel units (dB or dBA), but may be identified by the symbols SWL or LW, or by the reference unit  $10^{-12}$  W.

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.

### 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.

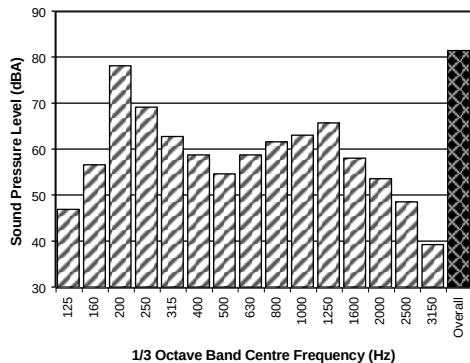
The units for frequency are Hertz (Hz), which represent the number of cycles per second.

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.



## 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  $20 \log (V/V_0)$ , where  $V_0$  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

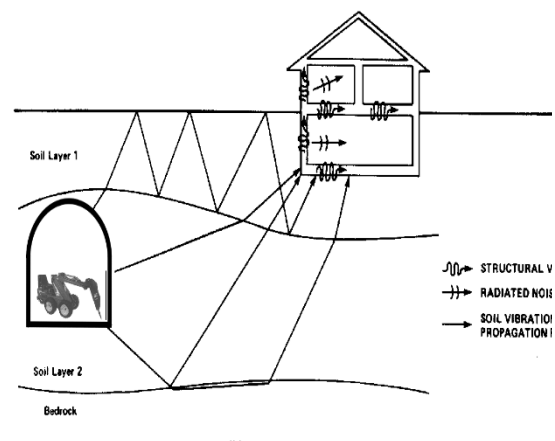
People are able to 'feel' vibration at levels lower than those required to cause even superficial damage to the most susceptible classes of building (even though they may not be disturbed by the motion). An individual's perception of motion or response to vibration depends very strongly on previous experience 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    Construction Information**

## **Access Logistics Park**

**884 – 928 Mamre Road, Kemps Creek**

**Construction Noise and Vibration Management Plan – Civil Works**

**Burton Contractors Pty Ltd**

SLR Project No.: 610.031427.00002

2 September 2024

| Equipment Item                  |                                                        | Back Hoe | Bobcat (approx. 1 tonne) | Compactor | Concrete Mixer Truck | Dozer (tracking) - equiv. CAT D9 | Dump Truck | Excavator (20-30T) with Hammer <sup>1</sup> | Excavator (14 tonne) | Excavator (22 tonne) | Excavator (30-35 tonne) | Front end loader 23t | Grader | Line Marking Plant | Paving Machine | Roller - Smooth Drum | Roller - Padfoot | Scraper 651 | Tipper Truck | Tractor (Towing Trailer) | Truck - road truck/ truck & dog (30 tonne) | Tub Grinder | Ute | Water Pump (Enclosed up to 6-inch) | Water Cart |
|---------------------------------|--------------------------------------------------------|----------|--------------------------|-----------|----------------------|----------------------------------|------------|---------------------------------------------|----------------------|----------------------|-------------------------|----------------------|--------|--------------------|----------------|----------------------|------------------|-------------|--------------|--------------------------|--------------------------------------------|-------------|-----|------------------------------------|------------|
| SWL LAeq(15min) <sup>2</sup>    |                                                        | 111      | 110                      | 108       | 109                  | 116                              | 110        | 122                                         | 97                   | 99                   | 110                     | 112                  | 108    | 108                | 105            | 107                  | 109              | 110         | 97           | 107                      | 108                                        | 116         | 98  | 92                                 | 107        |
| Estimated on-time in any 15-min |                                                        | 15       | 15                       | 15        | 7.5                  | 15                               | 15         | 5                                           | 7.5                  | 7.5                  | 7.5                     | 7.5                  | 15     | 15                 | 15             | 15                   | 15               | 15          | 15           | 15                       | 5                                          | 15          | 15  | 15                                 | 15         |
| Ref                             | Scenario                                               |          |                          |           |                      |                                  |            |                                             |                      |                      |                         |                      |        |                    |                |                      |                  |             |              |                          |                                            |             |     |                                    |            |
| W.01                            | Demolition                                             |          | X                        |           |                      |                                  |            | X                                           |                      |                      |                         |                      |        |                    |                |                      |                  |             |              |                          | X                                          |             |     |                                    |            |
| W.02                            | Slashing and Tree Clearing                             |          |                          |           |                      |                                  |            |                                             |                      |                      | X                       |                      |        |                    |                |                      |                  |             |              | X                        | X                                          | X           |     |                                    |            |
| W.03                            | Topsoil Stripping                                      |          |                          |           |                      | X                                | X          |                                             |                      |                      | X                       |                      | X      |                    |                |                      |                  | X           |              |                          |                                            |             |     | X                                  | X          |
| W.04                            | Bulk Earthworks                                        |          |                          | X         |                      |                                  | X          |                                             |                      |                      | X                       |                      | X      |                    |                | X                    | X                | X           |              |                          |                                            |             |     | X                                  | X          |
| W.05                            | Retaining Walls                                        |          | X                        |           |                      |                                  | X          |                                             |                      | X                    |                         | X                    |        |                    |                |                      | X                |             |              |                          |                                            |             |     | X                                  | X          |
| W.06                            | Stormwater and Drainage                                | X        |                          |           |                      |                                  |            |                                             |                      | X                    |                         |                      |        |                    |                | X                    |                  |             |              |                          |                                            |             |     | X                                  | X          |
| W.07                            | Services (Sewer, Portable/Recycled Water, Elec, Comms) |          |                          |           |                      |                                  |            |                                             | X                    | X                    |                         |                      |        |                    |                |                      |                  |             | X            |                          |                                            |             |     | X                                  | X          |
| W.08                            | Pavement Works – Boxout and Road Base                  |          |                          |           |                      |                                  |            |                                             |                      |                      |                         |                      | X      |                    |                |                      |                  | X           |              |                          | X                                          |             |     | X                                  | X          |



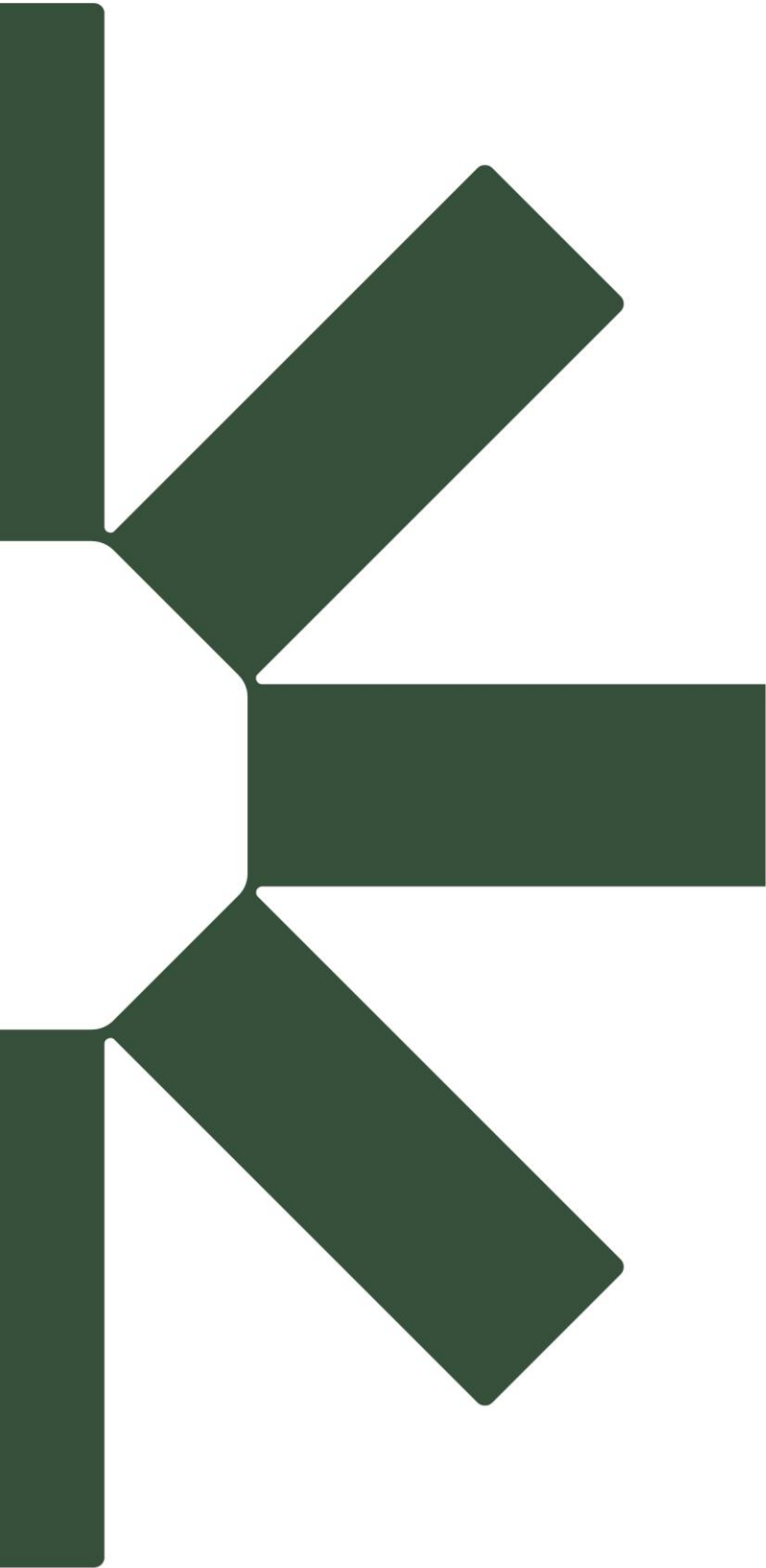


| Equipment Item |                            | Back Hoe | Bobcat (approx. 1 tonne) | Compactor | Concrete Mixer Truck | Dozer (tracking) - equiv. CAT D9 | Dump Truck | Excavator (20-30T) with Hammer <sup>1</sup> | Excavator (14 tonne) | Excavator (22 tonne) | Excavator (30-35 tonne) | Front end loader 23t | Grader | Line Marking Plant | Paving Machine | Roller - Smooth Drum | Roller - Padfoot | Scraper 651 | Tipper Truck | Tractor (Towing Trailer) | Truck - road truck/ truck & dog (30 tonne) | Tub Grinder | Ute | Water Pump (Enclosed up to 6-inch) | Water Cart |
|----------------|----------------------------|----------|--------------------------|-----------|----------------------|----------------------------------|------------|---------------------------------------------|----------------------|----------------------|-------------------------|----------------------|--------|--------------------|----------------|----------------------|------------------|-------------|--------------|--------------------------|--------------------------------------------|-------------|-----|------------------------------------|------------|
| W.09           | Pavement Works – Asphalt   |          |                          |           |                      |                                  |            |                                             |                      |                      |                         |                      |        |                    | X              | X                    |                  |             |              |                          | X                                          |             |     | X                                  | X          |
| W.10           | Trunk Drainage/Basin Works |          |                          |           | X                    |                                  |            |                                             |                      | X                    |                         | X                    |        |                    |                |                      |                  |             | X            |                          |                                            |             |     | X                                  | X          |
| W.11           | Landscaping                |          | X                        |           |                      |                                  |            |                                             | X                    |                      |                         |                      |        |                    |                |                      |                  |             | X            |                          |                                            |             |     | X                                  | X          |
| W.12           | Signage and Line marking   |          |                          |           |                      |                                  |            |                                             |                      |                      |                         |                      |        | X                  |                |                      |                  |             |              |                          |                                            |             | X   |                                    |            |

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

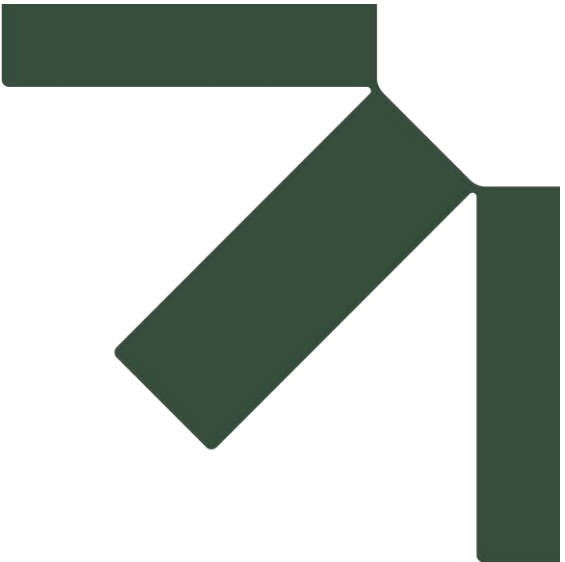
Note 2: Sound power level data is taken from the DEFRA Noise Database, TfNSW *Construction and Vibration Guideline* and TfNSW *Construction Noise and Vibration Strategy*.





Making Sustainability Happen





# **Appendix G      Construction Air Quality Management Plan**



This document has been prepared for **Burton Contractors Pty Ltd** by:

**Northstar Air Quality Pty Ltd,**

**Head Office: Suite 1504, 275 Alfred Street, North Sydney, NSW 2060**

**Riverina Office: PO Box 483, Albury, NSW 2640**

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## **Altis Access Logistics Park, Kemps Creek**

### **Construction Air Quality Management Plan**

**Addressee(s):** Burton Contractors Pty Ltd

**Site Address:** 884-928 Mamre Road, Kemps Creek NSW

**Report Reference:** 24.1051.FR1V5

**Date:** 27 May 2024

**Status:** Final



## Quality Control

| Study                        | Status | Prepared by | Checked by | Authorised by |
|------------------------------|--------|-------------|------------|---------------|
| INTRODUCTION                 | Final  | Northstar   | MD, NPG    | MD            |
| LEGAL AND OTHER REQUIREMENTS | Final  | Northstar   | MD, NPG    | MD            |
| THE DEVELOPMENT              | Final  | Northstar   | MD, NPG    | MD            |
| BASELINE DATA                | Final  | Northstar   | MD, NPG    | MD            |
| AIR QUALITY STANDARDS        | Final  | Northstar   | MD, NPG    | MD            |
| AIR QUALITY MANAGEMENT       | Final  | Northstar   | MD, NPG    | MD            |
| REVIEW AND IMPROVEMENT       | Final  | Northstar   | MD, NPG    | MD            |

## Report Status

| Northstar References                                                            |            | Report Status  | Report Reference | Version       |
|---------------------------------------------------------------------------------|------------|----------------|------------------|---------------|
| Year                                                                            | Job Number | (Draft: Final) | (R.x)            | (V.x)         |
| 24                                                                              | 1051       | Final          | R1               | V5            |
| Based upon the above, the specific reference for this version of the report is: |            |                |                  | 24.1051.FR1V5 |

## Final Authority

This report must be regarded as draft until the above study components have been each marked as final, and the document has been signed and dated below.



Martin Doyle

27 May 2024

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## 1. INTRODUCTION

Burton Contractors Pty Ltd (Burton) has engaged Northstar Air Quality Pty Ltd (Northstar) to provide a Construction Air Quality Management Plan (CAQMP) for the construction of a warehouse and distribution centre, to be located at Lots 52 and 53 DP 259135, 884-928 Mamre Road, Kemps Creek (the Development).

This CAQMP identifies the potential sources of air emissions associated with the proposed construction activities and provides measures to control each of those potential sources.

As part of the State Significant Development (SSD) Application, an air quality impact assessment (AQIA) was performed (Northstar, 2022) which included a risk-based assessment of the potential impacts associated with construction dust. The AQIA determined that with the implementation of appropriate controls, the risk of impacts associated with fugitive dust emissions from the construction of the Development would be negligible.

The CAQMP has been performed by Northstar, a specialist air quality consultancy with extensive experience in the provision of air quality management plans. A CV for the principal author (Dr Martin Doyle) is provided in Appendix A.

It is noted that construction works for the Development may not commence until the CAQMP is approved by the Planning Secretary.

### 1.1. Objectives and Targets

The key objectives of the CAQMP are to minimise emissions of air pollutants from the Development site and to ensure that impacts to air quality are minimised and within the scope permitted by the Conditions of Approval. To achieve these objectives, the summarised targets in Table 1 have been proposed for the management of air quality impacts during construction.

Following review of a previous version of this CAQMP, the NSW Department of Planning, Housing and Infrastructure (NSW DPHI) provided the following comments:

*We note that the CAQMP estimates approximately 164,000 tonnes of earthworks for this project – which creates significant potential for dust generation. We have also received concerns from the community regarding dust from cumulative construction activities. In response, the Department has obtained specialist advice in relation to air quality.*

*On that basis, please ensure the CAQMP addresses the following points:*

- *use real-time monitors to monitor PM<sub>10</sub> and TSP (including a wind-speed and wind-direction sensor) and provide an updated Trigger Action Response Plan incorporating these monitors*

- 
- *identify the proposed location of the proposed air quality monitoring locations on a figure*
  - *ensure air quality monitoring results are reviewed monthly at a minimum and included in the monthly ER report*

This CAQMP has been updated to include those requirements (refer Section 6.2).



**Table 1 Proposed targets and Key Performance Indicators (KPI) associated with the management of air quality**

| Measure                                                                                                                                                                                  | Target / KPI                                                                                                                                                                                                   | Timeframe    | Responsibility  | Documentation                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------------------------------------------------------------------|
| Air quality monitoring indicates triggers activated                                                                                                                                      | <ul style="list-style-type: none"> <li>Any triggers of air quality monitoring actioned immediately.</li> <li>Review controls applied and increase controls or modify activities</li> </ul>                     | At all times | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist |
| Visible dust emissions leaving the site boundary                                                                                                                                         | <ul style="list-style-type: none"> <li>Any emissions of visible dust leaving the site boundary investigated immediately</li> <li>Review controls applied and increase controls or modify activities</li> </ul> | At all times | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist |
| Spillage or track out onto public roads                                                                                                                                                  | <ul style="list-style-type: none"> <li>Any spillage or track out on public roads to be cleaned immediately</li> </ul>                                                                                          | At all times | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist |
| <p>Maintenance of all plant and equipment used on site in a proper and efficient condition</p> <p>Operation of all plant and equipment used on site in a proper and efficient manner</p> | <ul style="list-style-type: none"> <li>All plant and equipment to be maintained in accordance with manufacturer specifications</li> <li>All plant and equipment to be operated efficiently</li> </ul>          | At all times | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist |
| Complaints regarding air quality                                                                                                                                                         | <ul style="list-style-type: none"> <li>Zero validated complaints</li> <li>Any complaints would be investigated (see Section 7.3)</li> </ul>                                                                    | At all times | Site supervisor | Complaints register                                                     |
| Meeting Project Approval Conditions regarding air quality                                                                                                                                | <ul style="list-style-type: none"> <li>Compliance with conditions</li> </ul>                                                                                                                                   | At all times | Site supervisor | Environmental inspection checklist<br>Construction Compliance Report    |

## 2. LEGAL AND OTHER REQUIREMENTS

Provided below are the key relevant legislation, guidelines and other relevant documentation and Project Approval Conditions, as they relate to air quality impacts during construction of the Development.

### 2.1. Legislation

Legislation relevant to the management of air quality for the Development includes:

- *Environmental Planning and Assessment Act 1979* (EP&A Act);
- *Protection of the Environment Operations Act 1997* (POEO Act);
- Protection of the Environment Operations (Clean Air) Regulation 2022 (POEO (Clean Air) Regulation 2022); and
- State Environmental Planning Policy (Western Sydney Employment Area) 2009.

### 2.2. Guidelines and Relevant Documents

Guidelines and other documentation relevant to the management of air quality for the Development includes:

- NSW EPA Local Government Air Quality Toolkit – Air Quality Guidance Note – Construction sites (NSW EPA, 2017);
- Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (NSW EPA, 2022);
- Guidance on the assessment of dust from demolition and construction (NSW EPA, 2016); and
- Guidance on the assessment of dust from demolition and construction (IAQM, 2024)

### 2.3. Project Approval Conditions

Project Approval Conditions have been issued by the NSW Department of Planning Housing and Infrastructure (DPHI) for the Development. The Conditions which apply to air quality are reproduced in Table 2.



**Table 2 Project Approval Conditions – air quality**

| Approval Reference                       | Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Report reference         |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Operation of Plant and Equipment         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |
| A23.                                     | All plant and equipment used on site, or to monitor the performance of the development, must be:<br>(a) maintained in a proper and efficient condition; and<br>(b) operated in a proper and efficient manner.                                                                                                                                                                                                                                                                                                                                 | Section 6.1              |
| Dust Minimisation                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |
| B81.                                     | The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.                                                                                                                                                                                                                                                                                                                                                                                                                          | This document            |
| B82.                                     | During construction of the development, the Applicant must ensure that:<br>(a) exposed surfaces and stockpiles are suppressed by regular watering or other alternative suppression method;<br>(b) all trucks entering or leaving the site with loads have their loads covered;<br>(c) trucks associated with the development do not track dirt onto the public road network;<br>(d) public roads used by these trucks are kept clean; and<br>(e) land stabilisation works are carried out progressively on site to minimise exposed surfaces. | Section 6.3              |
| Construction Air Quality Management Plan |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |
| B83.                                     | Prior to the commencement of construction, 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:                                                                                                                                                                                                                                                                                               | This document            |
|                                          | (a) be prepared by a suitably qualified and experienced person(s);                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Section 1                |
|                                          | (b) detail and rank all emissions from all construction activities, including particulate emissions;                                                                                                                                                                                                                                                                                                                                                                                                                                          | Section 3.4              |
|                                          | (c) 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 on the site boundary;                                                                                                                                                                                                                                                                                                                                 | Section 1.1<br>Section 6 |
|                                          | (d) identify the control measures that will be implemented for each emission source; and                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Section 6.3              |
|                                          | (e) nominate the following for each of the proposed controls:<br>(i) key criteria;<br>(ii) monitoring method;<br>(iii) locations, frequency and duration of monitoring;                                                                                                                                                                                                                                                                                                                                                                       | Section 6.1              |

| Approval Reference           | Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                     | Report reference                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
|                              | (f) outline procedures that will be implemented in relation to: <ul style="list-style-type: none"> <li>(i) record keeping;</li> <li>(ii) reporting to the Environmental Representative required under condition A36;</li> <li>(iii) complaints register;</li> <li>(iv) response procedures;</li> <li>(v) compliance monitoring; and</li> </ul>                                                                                                 | Section 6<br>Section 7                |
|                              | (g) detail contingency measures to be implemented to reduce any exceedances of relevant performance indicators or criteria and include a timetable for implementation.                                                                                                                                                                                                                                                                         | Section 6.4                           |
| B84.                         | The Applicant must: <ul style="list-style-type: none"> <li>(a) not commence earthworks until the CAQMP required by condition B83 is approved by the Planning Secretary; and</li> </ul>                                                                                                                                                                                                                                                         | Section 1                             |
|                              | (b) implement the most recent version of the CAQMP approved by the Planning Secretary for the duration of earthworks and construction.                                                                                                                                                                                                                                                                                                         | Section 7                             |
| Odour Management             |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| B85.                         | The Applicant must ensure the development does not cause or permit the emission of any offensive odour (as defined in the POEO Act)                                                                                                                                                                                                                                                                                                            | Section 6.1.1                         |
| Management Plan Requirements |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| C1.                          | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:                                                                                                                                                                                                                                                                                                                             |                                       |
|                              | (a) detailed baseline data;                                                                                                                                                                                                                                                                                                                                                                                                                    | Section 4                             |
|                              | (b) details of: <ul style="list-style-type: none"> <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 2<br>Section 5<br>Section 6.1 |
|                              | (c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                                                                                                                                                                                                                                                          | Section 6.3                           |
|                              | (d) a program to monitor and report on the:                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |
|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |



| Approval Reference                             | Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Report reference |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                                                | (i) impacts and environmental performance of the development; and                                                                                                                                                                                                                                                                                                                                                                                                                     | Section 6        |
|                                                | (ii) effectiveness of the management measures set out pursuant to paragraph (c) above;                                                                                                                                                                                                                                                                                                                                                                                                | Section 7        |
|                                                | (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 6.4      |
|                                                | (f) a program to investigate and implement ways to improve the environmental performance of the development over time;                                                                                                                                                                                                                                                                                                                                                                | Section 7        |
|                                                | (g) a protocol for managing and reporting any: <ul style="list-style-type: none"> <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 7        |
|                                                | (h) a protocol for periodic review of the plan.                                                                                                                                                                                                                                                                                                                                                                                                                                       | Section 7        |
| C3                                             | (E) Construction Air Quality Management Plan                                                                                                                                                                                                                                                                                                                                                                                                                                          | This document    |
| 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 3. | Section 7.1      |
| C11                                            | The Planning Secretary must be notified in writing to the Major Projects website within seven days after the Applicant becomes aware of any non-compliance.                                                                                                                                                                                                                                                                                                                           | Section 7.2      |
| 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 7.2      |
| C13                                            | A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.                                                                                                                                                                                                                                                                                                                                                                        | Noted only       |
| Applicant's Management and Mitigation Measures |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |

| Approval Reference | Conditions                                                                                                                                                                                                                                                        | Report reference             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Appendix 3-1.      | Altis will commit to implement all reasonable and feasible measures, to prevent and/or minimise any harm to the environment, that may result from the construction or operation of the proposed development.                                                      | Section 6.3                  |
| Appendix 3-13.     | Prior to commencement of works, Altis will develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the relevant regulatory bodies.                                                                 | This document                |
| Appendix 3-14.     | Prior to commencement of works, a construction air quality management plan will be developed (post approval) in line with the Air Quality and Odour Impact Assessment.                                                                                            | This document                |
| Appendix 3-15.     | Altis will implement an emissions testing program in accordance with the requirements of an Environmental Protection Licence (EPL).                                                                                                                               | Not covered in this document |
| Appendix 3-16.     | Altis will develop an Operational Environmental Management Plan (OEMP) to address air emissions (including odour).                                                                                                                                                | Not covered in this document |
| Appendix 3-17.     | Altis has an Environmental and Sustainability Policy ESN-001P that outlines commitment to Environmental compliance. Altis will accept and implement the recommendations as outlined in the Air Quality and Odour Impact Assessment for monitoring of performance. | Not covered in this document |

## 2.4. Other Requirements

The Environmental Impact Statement (EIS) (Willowtree Planning, 2021) outlines a number of emission control measures that are required to be implemented at the Development site associated with various construction phase activities, including demolition, earthworks, construction and track-out.

The emission control methods to be employed are outlined in Section 6.3



### **3. THE DEVELOPMENT**

The following provides a description of the context, location, and scale of the Development and provides a description of the processes on site. It also identifies the potential for emissions to air associated with the Development.

#### **3.1. Environmental Setting**

The Development site is located at 884-928 Mamre Road, Kemps Creek, NSW. The Development site is located approximately 20 kilometres (km) from Parramatta and 39 km west of the Sydney Central Business District (CBD). A map showing the location of the Development site is provided in Figure 1.

The closest residential property is currently located approximately 6 meters (m) from the Development site boundary to the south on an unnamed road. The sensitive receptors identified as part of the AQIA are illustrated in Figure 2. It is noted that at the time the AQIA was performed a number of the identified receptor locations were determined to be unoccupied.

#### **3.2. Description of Development**

The Development comprises the construction of an industrial estate for a future warehouse and distribution centre including ancillary office areas.

Specifically, the Development includes:

- Demolition of existing structures;
- Construction of an industrial estate comprising bulk earthworks;
- Fit out and operation of a warehouse and distribution centre;
- Ancillary office space;
- Associated landscaping works, including retaining walls;
- Staged 1 and 2 residual lot subdivision;
- Construction of internal estate roads and intersection;
- Site servicing; and
- Stormwater infrastructure.

The Development site layout plan is shown in Figure 3.

Figure 1 Development site location



Source: Northstar

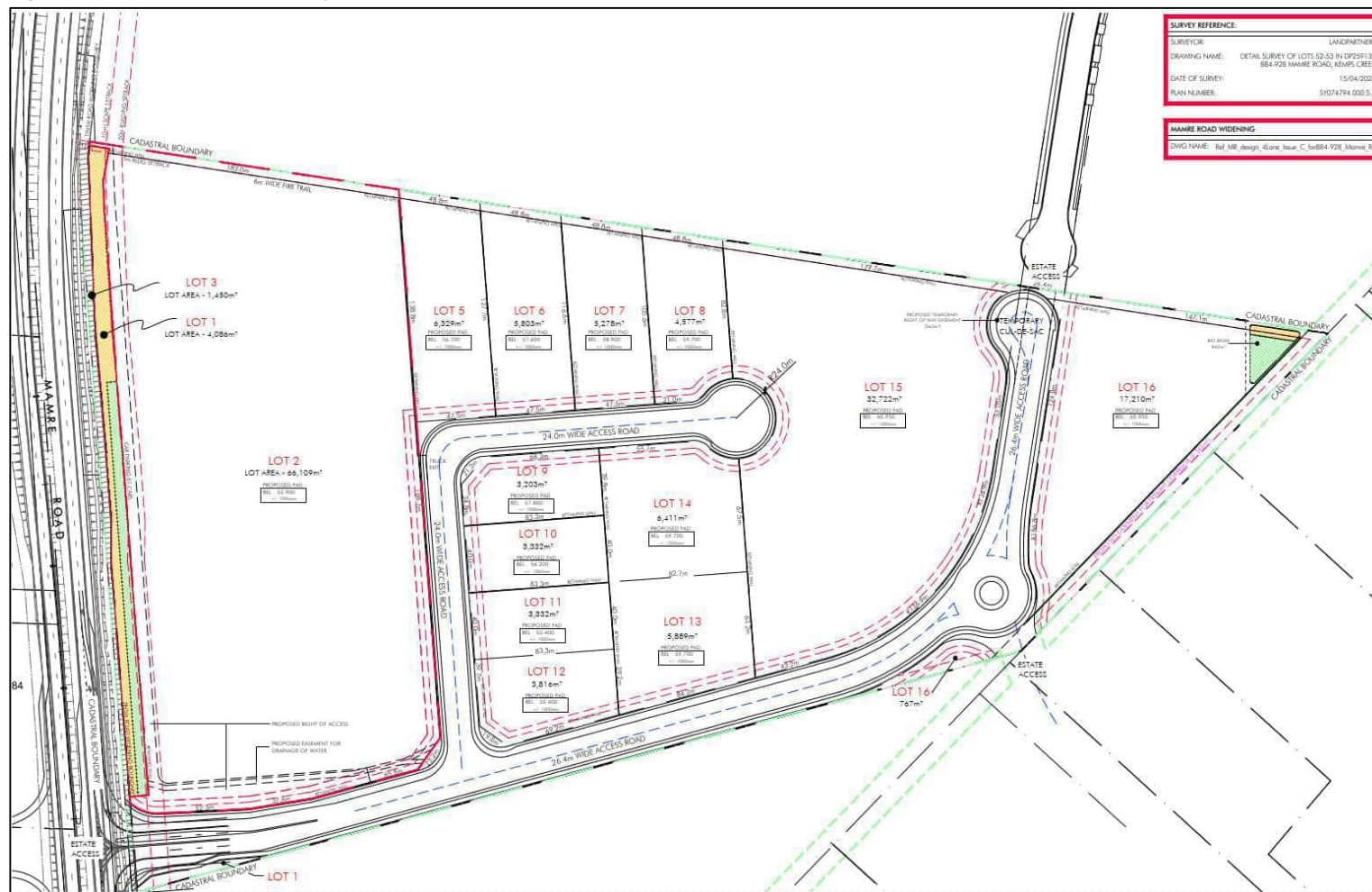


Figure 2 Sensitive receptor locations surrounding the Development site



Source: Northstar

Figure 3 Development site layout



Source: Altis Property Partners 11213\_DA006, issue P1



### 3.3. Identification of Potential Emissions to Atmosphere

The activities to be performed during the construction works which may have the potential to impact upon air quality include:

- bulk earthworks, including cut and fill of soil profile;
- movement of plant and equipment on the site and heavy vehicles on unpaved areas; and
- construction of hardstand areas, roads, and warehouses and offices.

The activities above would result in emissions of particulate matter (dust) and gaseous emissions through the combustion of fuel in vehicles, plant and machinery.

Of the activities outlined above, emissions associated with earthworks and the movement of heavy vehicles on unpaved areas have the greatest potential to impact on local air quality, and it is these activities which are examined in detail in this CAQMP. However, the controls outlined in this CAQMP consider all sources of emissions (refer Section 6.3).

The risk of dust impacts from a demolition/construction site causing loss of amenity and/or health or ecological impacts is related to the following (IAQM, 2024):

- The nature of the activities being undertaken;
- The duration of the activities;
- The size of the site;
- The meteorological conditions (wind speed, direction, rainfall). Adverse impacts are more likely to occur downwind of the site and during drier periods;
- Soil moisture content and soil type and erodibility;
- The proximity of receptors to the activities;
- The sensitivity of the receptors to dust; and
- The adequacy of the mitigation measures applied to reduce or eliminate dust.

In addition, the risk of air quality impacts arising from exhaust emissions are related to the following:

- The number and type of plant and equipment being used;
- The duration of use of each item of plant and equipment;
- Appropriate operation and maintenance of plant and equipment; and
- Compliance of plant and equipment with relevant emission standards.

The anticipated volume of earthworks activities proposed for the Development are presented in Table 3.

**Table 3 Anticipated volume of earthworks activities**

| Description                 | Estimated volume (m <sup>3</sup> ) |
|-----------------------------|------------------------------------|
| Strip topsoil and stockpile | 40 545                             |
| Cut to fill                 | 212 000                            |
| Import and compact fill     | 212 000                            |

**Note:** values are approximate only

A number of ancillary activities such as construction of retaining walls, stormwater infrastructure, electrical installation, landscaping and construction of offices and internal roads will also take place, although the earthworks activities outlined in Table 3 would result in the greatest potential for emissions to air, and it is these activities which have been examined in detail.

The plant and equipment to be used during the construction of the Development would include:

- Dump trucks;
- Scrapers;
- Excavators;
- Front end loaders;
- Compactors;
- Water cart;
- Grader;
- Dozer;
- Vibration roller;
- Padfoot roller
- Smooth drum roller; and
- Backhoe.

### 3.4. Quantification of Potential Emissions to Atmosphere

As required by the Project Approval Conditions, this CAQMP provides a quantification of emissions associated with construction activities and identifies the emission control measures which would be applied to each source.

Emissions have been estimated adopting activity data as outlined in Table 3, and emission factors for materials handling processes, movement of trucks on unpaved site roads, and wind erosion contained within the US EPA AP-42 emission factor compendium (US EPA, 1995 and updates). These factors are appropriate for adoption in Australia and are routinely adopted in the assessment of operations of a similar nature.

Emissions of total suspended particulate (TSP), particulate matter with an aerodynamic diameter of  $\leq 10$  microns ( $PM_{10}$ ), and  $\leq 2.5$  microns ( $PM_{2.5}$ ) have been calculated without the inclusion of controls. Emission



controls have then been identified and applied to the sources of emissions to determine the likely reductions which could result through the implementation of those measures.

The proposed emission controls to be adopted during the construction of the Development that are associated with justifiable emission control efficiencies have been presented in Table 4. It is noted that the relevant emission control efficiencies have been sourced from the following literature:

- *National Pollutant Inventory Emission Estimation Technique Manual for Mining Version 3.1* (DCCEEW, 2012); and
- *NSW Coal Mining Benchmarking Study: International Best Practice Measures to Prevent and/or Minimise Emissions of Particulate Matter from Coal Mining* (Katestone Environmental, 2011).

It is noted that a range of additional control measures are proposed for the Development for which justifiable control efficiencies are not available (see Section 6.3).

**Table 4 Proposed emissions controls with associated control efficiencies**

| Measure                                                                | Aim                                                                                            | Anticipated emission control efficiency (%) | Reference                       |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------|
| Watercarts and handheld water sprays on site to control dust regularly | Minimise dust generation on haul roads, exposed areas and during materials handling activities | 50                                          | (DCCEEW, 2012)                  |
| Minimise drop heights from truck dumping to 1.5 m                      | Minimise dust generation during vehicle unloading                                              | 30                                          | (Katestone Environmental, 2011) |

A number of assumptions have been adopted to estimate the emissions resulting from construction works in conjunction with the anticipated volume of earthworks presented in Table 3. It is noted that the adopted assumptions generally represent a conservative approach to estimating the emissions and correspondingly, the actual emissions generated from construction works are likely to be less than those presented in this CAQMP. The assumptions are provided below in Table 5.

**Table 5 Assumptions adopted to estimate emissions**

| Parameter                                          | Assumption | Comment                                                                      |
|----------------------------------------------------|------------|------------------------------------------------------------------------------|
| Payload of dump trucks moving material             | 14 tonnes  | Assumed payload                                                              |
| Payload of trucks importing fill material          | 35 tonnes  | Assumed payload                                                              |
| Dozer operating hours per day                      | 10 hours   | Assumed hours                                                                |
| Dump trucks moving material on-site path length    | 0.4 km     | Measured from the centre to the north-western corner of the development site |
| Trucks importing fill material on site path length | 0.35 km    | Measured from site entrance to centre of development site                    |

Figure 4 presents the anticipated emissions during construction works, before (uncontrolled) and after the application of the proposed control measures outlined in Table 4 (controlled).

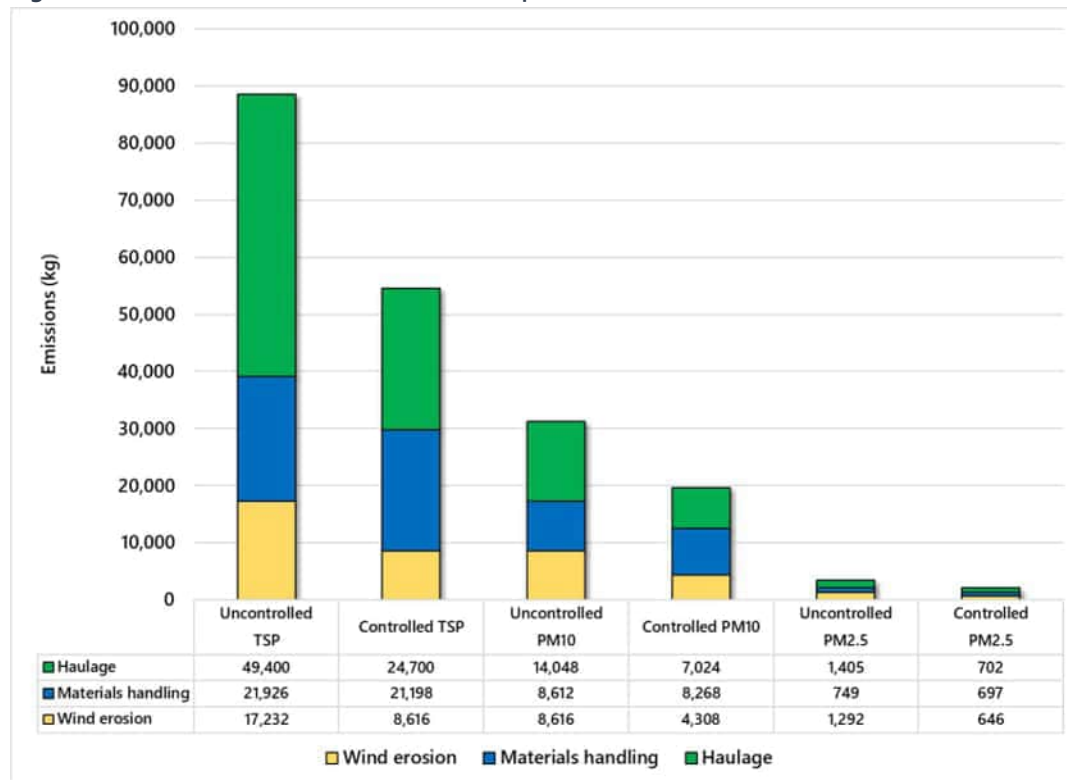
Figure 4 indicates that emissions of particulate matter are dominated by haulage activities, should these not be appropriately controlled. For clarity, a range of control measures have been identified in this report to sufficiently control emissions associated with haulage activities.

The application of the emission control measures results in reductions in all three particulate size fractions (i.e. TSP, PM<sub>10</sub> and PM<sub>2.5</sub>), as presented in Figure 4. The potential reduction in emissions through application of the proposed emissions controls is as follows:

- TSP – 62 %
- PM<sub>10</sub> – 63 %
- PM<sub>2.5</sub> – 59 %



Figure 4 Particulate emissions (earthworks phase) – uncontrolled and controlled

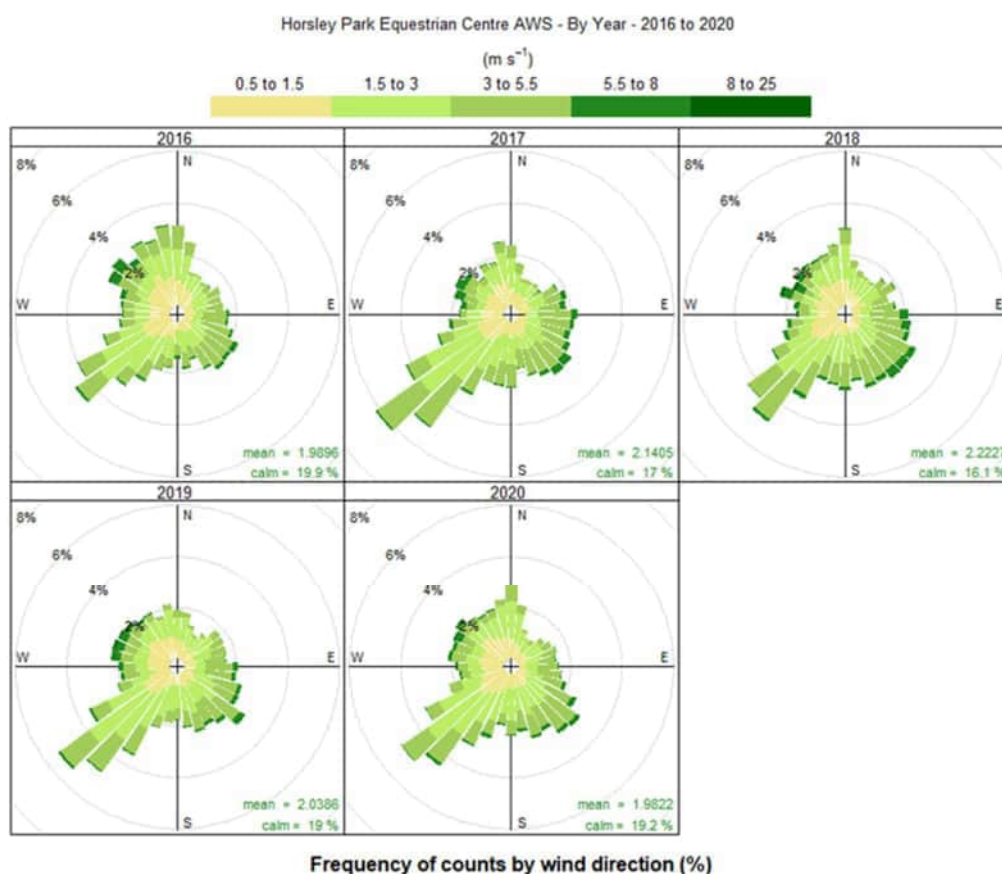


## 4. BASELINE DATA

### 4.1. Meteorology

The meteorology of the area surrounding the Development site was characterised in the AQIA supporting the SSD Application (Northstar, 2022) through the use of observations collected by the Australian Government Bureau of Meteorology (BoM) at the Horsley Park Equestrian Centre automatic weather station (AWS located approximately 6.2 kilometres (km) from the Development site. Wind roses showing the frequency of wind speed and direction from 2016 to 2020, as presented in the AQIA are shown in Figure 5.

**Figure 5 Annual wind roses 2016 – 2020, Horsley Park Equestrian Centre AWS**



The wind roses indicate that from 2016 to 2020, winds at Horsley Park Equestrian Centre AWS show similar patterns across the years, with a predominant south-westerly wind direction.

The majority of wind speeds experienced at the Horsley Park Equestrian Centre AWS between 2016 and 2020 are generally in the range 0.5 meters per second (m·s<sup>-1</sup>) to 5.5 m·s<sup>-1</sup> with the highest wind speeds (greater than 8 m·s<sup>-1</sup>) occurring from north-westerly directions. Winds of this speed are rare and occur during 0.3 %



of the observed hours during the years. Calm winds ( $< 0.5 \text{ m}\cdot\text{s}^{-1}$ ) are more common and occur during more than 18 % of hours across the years.

For context in relation to construction dust, the predominant south-westerly wind direction observed at the Horsley Park Equestrian Centre AWS (refer Figure 5) indicates that sensitive receptors to the northeast of the site would be likely to be impacted more often than other receptor locations.

## 4.2. Air Quality

The air quality of the area surrounding the Development site was characterised in the AQIA (Northstar, 2022) through the use of observations collected at the NSW DCCEE air quality monitoring station (AQMS) located at St Marys. Particulate matter (as  $\text{PM}_{10}$  and  $\text{PM}_{2.5}$ ) data for the period 2016 to 2020 are presented in Figure 6 and Figure 7. These data indicate that that particulate matter concentrations were significantly higher than the NSW EPA criteria in late 2019 and early 2020. This was predominantly driven by exceptional weather events such as drought conditions and bushfires (NSW DPIE, 2021).

The aim of the CAQMP is to minimise the contribution of particulate matter resulting from the construction of the Development.

**Figure 6**  $\text{PM}_{10}$  measurements, St Marys 2016-2020

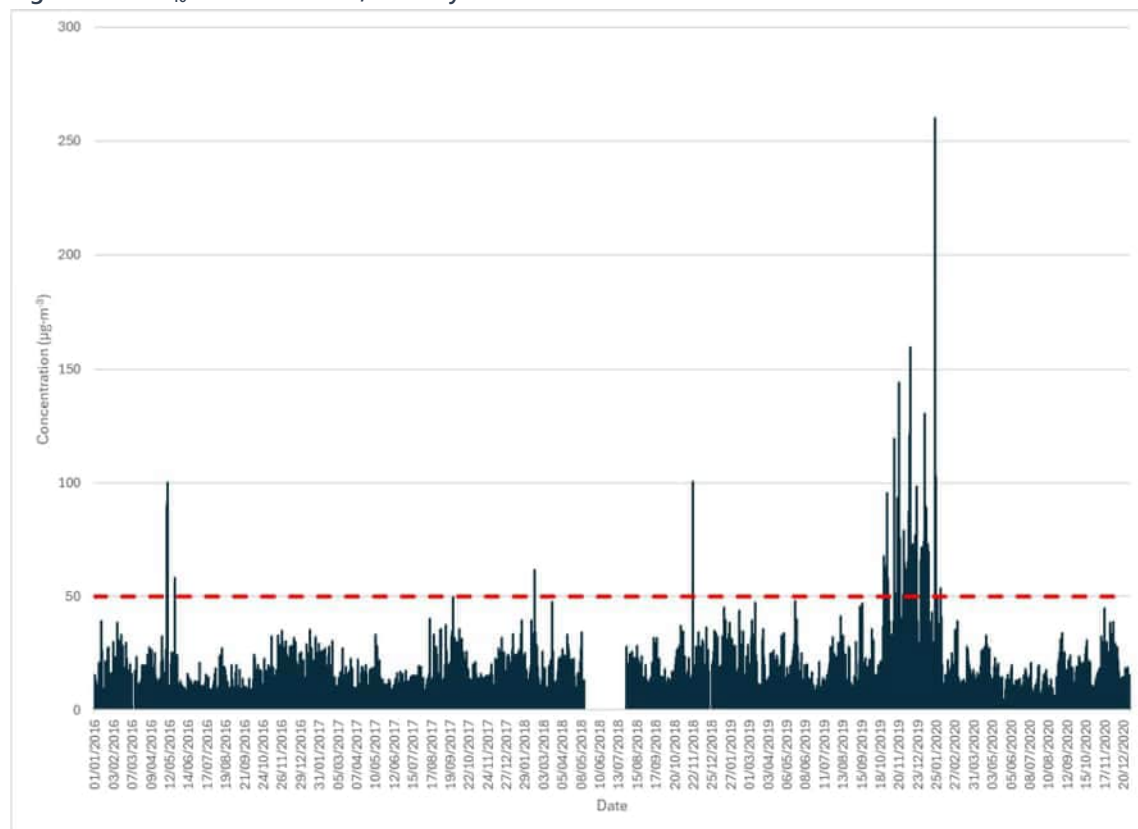
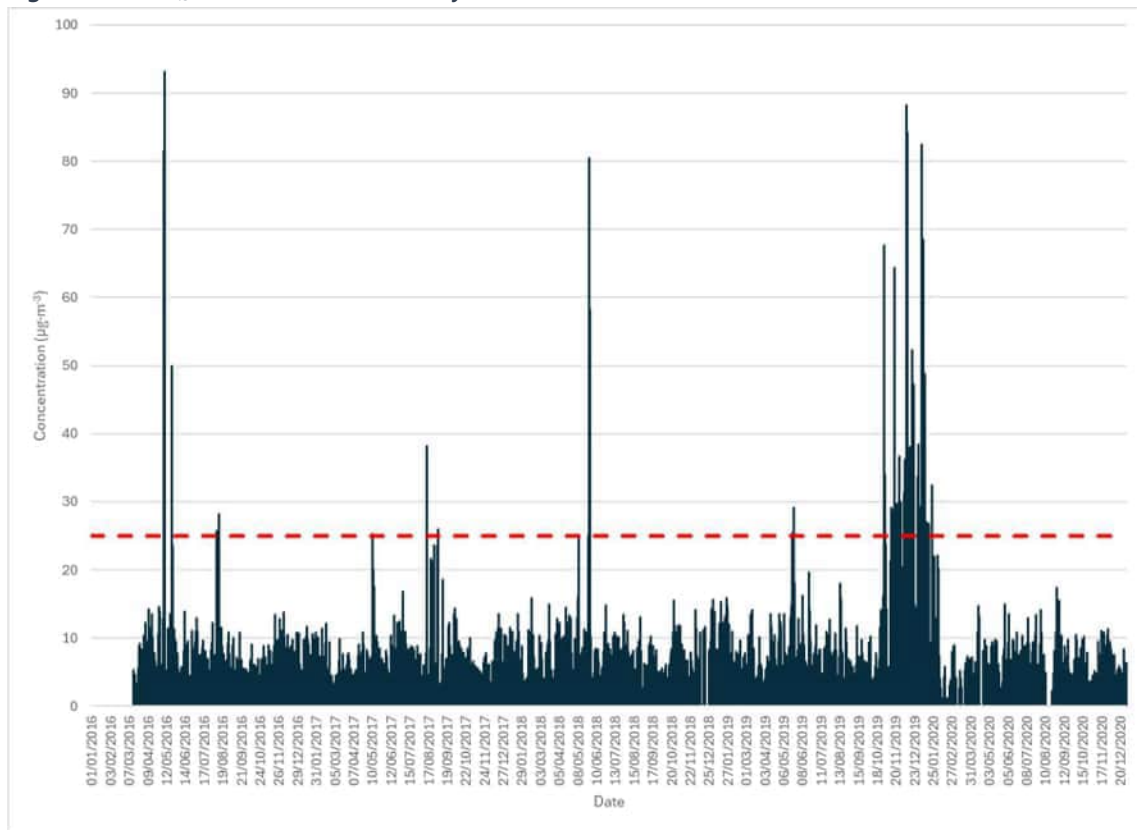


Figure 7 PM<sub>2.5</sub> measurements, St Marys 2016-2020





## 5. AIR QUALITY STANDARDS

The NSW EPA Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (NSW EPA, 2022) lists the statutory methods that are to be used to model and assess emissions of criteria air pollutants from stationary sources in NSW.

The criteria listed in the Approved Methods are derived from a range of sources (including National Health and Medical Research Council (NHMRC), National Environment Protection Council (NEPC), Department of Environment (DoE), World Health Organisation (WHO), and Australian and New Zealand Environment and Conservation Council (ANZECC)).

It is noted that the primary pollutants of concern associated with the construction of the Development are as follows:

- PM<sub>10</sub>;
- PM<sub>2.5</sub>;
- TSP; and
- Deposited dust.

The impact assessment criteria for the abovementioned pollutants as set out in Section 7.1 of NSW EPA (2022) are presented in Table 6 below. The standards applicable to the monitoring to be undertaken through this CAQMP are presented in **bold** text.

**Table 6 NSW EPA impact assessment criteria**

| Pollutant                                | Averaging period            | Units <sup>(a)</sup>                       | Criterion | Notes                                                                      |
|------------------------------------------|-----------------------------|--------------------------------------------|-----------|----------------------------------------------------------------------------|
| <b>Particulates (as TSP)</b>             | <b>Annual</b>               | <b>µg·m<sup>-3</sup></b>                   | <b>90</b> | -                                                                          |
| <b>Particulates (as PM<sub>10</sub>)</b> | <b>24 hours</b>             | <b>µg·m<sup>-3</sup></b>                   | <b>50</b> | Numerically equivalent to the AAQ NEPM <sup>(b)</sup> standards and goals. |
|                                          | <b>Annual</b>               | <b>µg·m<sup>-3</sup></b>                   | <b>25</b> |                                                                            |
| Particulates (as PM <sub>2.5</sub> )     | 24 hours                    | µg·m <sup>-3</sup>                         | 25        |                                                                            |
|                                          | Annual                      | µg·m <sup>-3</sup>                         | 8         |                                                                            |
| <b>Particulates (as dust deposition)</b> | <b>Annual<sup>(c)</sup></b> | <b>g·m<sup>-2</sup>·month<sup>-1</sup></b> | <b>2</b>  | Assessed as insoluble solids as defined by AS 3580.10.1                    |
|                                          | <b>Annual<sup>(d)</sup></b> | <b>g·m<sup>-2</sup>·month<sup>-1</sup></b> | <b>4</b>  |                                                                            |

**Notes:** (A): micrograms per cubic metre of air  
 (B): National Environment Protection (Ambient Air Quality) Measure  
 (C): Maximum increase in deposited dust level  
 (D): Maximum total deposited dust level

As summarised in Section 1, it is noted that the AQIA performed as part of the SSD Application (Northstar, 2022) indicates that the risk of adverse dust impacts from construction activities being experienced at offsite locations would be negligible. However, as required by the Project Approval Conditions, and subsequent DPE requests, dust deposition monitoring and real time TSP and PM<sub>10</sub> monitoring will be performed against the criteria outlined in Table 6.

## 6. AIR QUALITY MANAGEMENT

The air quality management measures to be adopted during the construction of the Development have been determined through the quantification of emissions and the identification of major emissions sources as outlined in Section 3.4. Measures have also been identified through review of (NSW EPA, 2022) and (IAQM, 2024).

Key performance indicators (KPI) for the Development are provided in Section 6.1. For the CAQMP as a whole, the following is provided, as required by the Project Approval Conditions:

- Monitoring method;
- Location, frequency and duration of monitoring;
- Record keeping;
- Complaints register;
- Response procedures; and
- Compliance monitoring.

### 6.1. Key Performance Indicators

As previously outlined, the key objectives of the CAQMP are to prevent visible emissions of dust from leaving the site boundary and to ensure that impacts to air quality are minimised and within the scope permitted by the Approval. To achieve these objectives, the summarised targets in Table 1 (replicated in Table 7) have been proposed for the management of air quality impacts during construction as follows.



**Table 7 KPI's associated with the management of air quality**

| Measure                                                                                                                                                                       | Target / KPI                                                                                                                                                                                                   | Timeframe    | Responsibility  | Documentation                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------------------------------------------------------------------|
| Air quality monitoring indicates triggers activated                                                                                                                           | <ul style="list-style-type: none"> <li>Any triggers of air quality monitoring actioned immediately.</li> <li>Review controls applied and increase controls or modify activities</li> </ul>                     | At all times | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist |
| Visible dust emissions leaving the site boundary                                                                                                                              | <ul style="list-style-type: none"> <li>Any emissions of visible dust leaving the site boundary investigated immediately</li> <li>Review controls applied and increase controls or modify activities</li> </ul> | At all times | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist |
| Spillage or track out onto public roads                                                                                                                                       | <ul style="list-style-type: none"> <li>Any spillage or track out on public roads to be cleaned immediately</li> </ul>                                                                                          | At all times | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist |
| Maintenance of all plant and equipment used on site in a proper and efficient condition<br>Operation of all plant and equipment used on site in a proper and efficient manner | <ul style="list-style-type: none"> <li>All plant and equipment to be maintained in accordance with manufacturer specifications</li> <li>All plant and equipment to be operated efficiently</li> </ul>          | At all times | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist |
| Complaints regarding air quality                                                                                                                                              | <ul style="list-style-type: none"> <li>Zero validated complaints</li> <li>Any complaints would be investigated (see Section 7.3)</li> </ul>                                                                    | At all times | Site supervisor | Complaints register                                                     |
| Meeting Project Approval Conditions regarding air quality                                                                                                                     | <ul style="list-style-type: none"> <li>Compliance with conditions</li> </ul>                                                                                                                                   | At all times | Site supervisor | Environmental inspection checklist<br>Construction Compliance Report    |

Air quality impacts during construction are likely to be minor and manageable through the implementation of the control measures outlined in Section 6.3. The success of the CAQMP would, in part, be determined through compliance with the KPIs outlined above. To ensure that the Development is operated in accordance with conditions of consent, dust deposition monitoring is proposed at four locations on the boundary of the Development site, for the duration of works. In addition to dust deposition monitoring, real-time monitoring

of TSP and PM<sub>10</sub> are proposed at 4 locations on the development site boundary. A description of the proposed monitoring program is outlined in Section 6.2.

#### 6.1.1. Odour

Given the activities performed at the Development site, odour is not anticipated to be emitted in any significant quantity. Nonetheless, the CAQMP has been designed to identify and manage any impacts, should they arise.

### 6.2. Air Quality Monitoring

#### 6.2.1. Dust Deposition Monitoring

The monitoring process is detailed below and will support the assessment of compliance for dust deposition against the criteria specified in Section 5. The process will consist of:

- Locating four (4 no) dust deposition monitoring devices at the Development site in line with Australian Standard / New Zealand Standard (AS/NZS) 3580.10.1:2016 and other relevant standards;
- Operating and maintaining the dust deposition monitoring devices at the Development site in line with AS/NZS 3580.10.1:2016 and other relevant standards;
- Collect deposited dust samples each 30±2 days in accordance with AS/NZS 3580.10.1:2016 and other relevant standards and provide the collected samples to a NATA accredited laboratory for analysis;
- Compile monitoring results over a 12-month sampling period and calculate the annual average dust deposition rate (as g·m<sup>-2</sup>·month<sup>-1</sup>) for each monitoring location;
- Review the number, frequency and nature of any environmental complaints received over the same 12-month period, as relates to dust amenity issues;
- Produce a dust monitoring report specifying the results of the monitoring and whether compliance has been achieved; and
- If the monitoring results reveal an exceedance of the dust deposition criteria (in any month of monitoring), identify and apply further dust mitigation measures.

A review of the 12-month sampling period results will be undertaken by a suitably qualified and experienced professional.

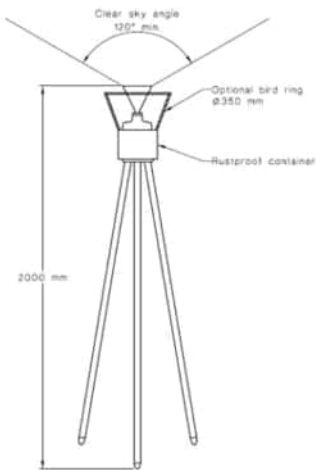
Dust deposition monitoring is proposed at four locations on the boundary of the Development site. These locations will generally reflect the northern, southern, eastern and western boundaries, and specific locations will be selected prior to construction to ensure that they meet the requirements of the relevant AS/NZS. It is noted that the monitoring locations along the site boundaries should be positioned proximate to adjoining structures (such as residential dwellings) to observe potential dust impacts at those locations.



Monitoring will be conducted using dust deposition gauges (DDG) constructed in accordance with AS/NZS 3580.1.10:2016. This apparatus involves the collection of passing dust with a funnel and bottle arrangement. The dust emissions settle into the funnel from the ambient air and are collected in the bottle with any rainwater. The sampled mass deposition rate is calculated from the mass of solids collected from the bottle. The dust is collected over a monthly ( $30 \pm 2$  day) period, and the results are expressed as  $\text{g}\cdot\text{m}^{-2}\cdot\text{month}^{-1}$ .

A typical dust deposition gauge and stand is illustrated in Figure 8.

**Figure 8 Dust deposition gauge with stand**



The monitoring locations will be sited in accordance with the requirements of 'AS/NZS 3580.1.1:2007 Methods for sampling an– analysis of ambient air - Guide to siting equipment, and AS/NZS 3580.10.1:2016.

The monitoring of dust deposition will be performed, and quality controlled in accordance with AS/NZ 3580.10.1:2016.

For every monthly ( $30 \pm 2$  day) monitoring period the concurrent collection of all four gauges is required. The samples will be collected in accordance with AS/NZS 3580.10.1:2016.

After the NATA accredited laboratory has issued the monthly analysis report, the data will be reviewed by the site environmental representative and recorded in a database, which will be subsequently used to evaluate performance against the criteria specified in Section 5.

Unless otherwise required, an annual monitoring report will be prepared by a suitably qualified and experienced professional, describing the methodology and comparing the dust deposition monitoring against the relevant criteria. The annual report can then identify whether further monitoring is required based on whether an exceedance of criteria has occurred.

It is noted that the samples collected each month must be delivered to a NATA accredited laboratory at the earliest convenience, and results reviewed immediately so that additional mitigation measures may be implemented in a timely manner if an exceedance of the relevant criteria is identified.

Monitoring dust deposition prior to beginning construction works should be considered to establish a 'baseline' monitoring dataset. This would allow dust deposition data collected at the Development site during construction to be compared against the existing conditions and correspondingly, better understand the potential dust impacts the Development may contribute to the local air quality environment.

The DDG monitoring will provide details on whether the activities at the Development site are being performed in accordance with Project Approval Conditions. These measurements will be supplemented by visual inspections on a daily basis, and through the KPIs as outlined in Table 7.

If the monthly air quality monitoring results indicate exceedances of the annual average dust deposition criterion (refer Section 5), the Development will consider adopting a real time dust monitoring program to implement more efficient proactive dust management. Additionally, the likely causes of any exceedances will be reviewed, and appropriate mitigation measures implemented to further reduce dust emissions from operations and activities on site will be investigated and implemented.

#### 6.2.2. Real-Time TSP and PM<sub>10</sub> Monitoring

A Trigger Action Response Plan (TARP) has been developed as part of the CAQMP in accordance with the requirements of NSW DPHI. The TARP describes the actions to be taken when specific triggers are exceeded.

The purpose of the TARP is to provide a process to identify conditions that may lead to unacceptable dust impacts if not adequately managed, and to provide proactive and reactive actions to manage that risk. Triggers have been defined to assist the contractor to meet dust management obligations when:

- Ground-level concentrations at the monitoring locations have the potential to be elevated due to activities onsite; and
- Activities onsite are generating visible dust outside of the normal observed range.

The monitoring program is designed to enable and facilitate proactive modification of site activities to ensure that unacceptable air quality impacts are not experienced at surrounding receptor locations. In conditions when the background particulate environment is significantly affected by external sources (such as dust storms or bushfire), then modification of activities may not result in any meaningful reductions in off-site impacts associated with the activities on site. However, the TARP has been designed to enable minimisation of the development impact in all conditions.

One monitoring location would include wind speed and direction monitoring.



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#### 6.2.2.1. Monitoring Network

Continuous real-time data would be collected by the network and provided as user-defined averages. To meet the objectives of the TARP, 1-hour, 24-hour and annual averages will be obtained.

The locations of the air quality and meteorological monitors have been selected to allow the incremental (i.e. construction related) particulate matter concentration to be calculated in a range of wind directions, taking into account the locations of emissions sources, surrounding sensitive receptor locations and prevailing meteorology.

The monitoring network would consist of four monitors located to allow the determination of upwind/downwind impact in all wind directions. A map showing the location of the monitoring equipment is presented in Figure 9.

Figure 9 Location of air quality monitoring equipment



Source: Northstar



The siting of air quality monitoring would be in accordance with AS 3580.1.1, taking into account the objectives of the monitoring program and site constraints.

Siting of meteorological monitoring would be performed with reference to AS 3580.14 *Methods for sampling and analysis of ambient air, Meteorological monitoring for air quality monitoring applications*. As far as practicable, and taking into account site constraints and the purposes of the monitoring program, meteorological monitoring equipment would be sited in accordance with AS 3580.14.

The air quality monitoring method / equipment supplier has not yet been selected, although it would be anticipated that an optical monitoring method would be most suitable, due to its portability and cost. Optical monitoring systems can often measure several size fractions simultaneously, in real-time. The range, resolution and accuracy of the selected monitoring system should be as presented in Table 8, where possible.

**Table 8 Air quality monitoring parameters, range, resolution and accuracy**

| Parameter        | Range                                     | Resolution                        | Accuracy                                            |
|------------------|-------------------------------------------|-----------------------------------|-----------------------------------------------------|
| TSP              | 0 – 1 000 $\mu\text{g}\cdot\text{m}^{-3}$ | 1 $\mu\text{g}\cdot\text{m}^{-3}$ | $\pm 10\%$ (< 500 $\mu\text{g}\cdot\text{m}^{-3}$ ) |
| PM <sub>10</sub> | 0 – 1 000 $\mu\text{g}\cdot\text{m}^{-3}$ | 1 $\mu\text{g}\cdot\text{m}^{-3}$ | $\pm 10\%$ (< 500 $\mu\text{g}\cdot\text{m}^{-3}$ ) |

Wind speed and direction would be measured at one location (nominally location 4). The range, resolution and accuracy of any wind speed and direction measurements would be as outlined in Table 9, where possible.

**Table 9 Meteorological monitoring parameters, range, resolution and accuracy**

| Parameter      | Range                               | Resolution                        | Accuracy                             |
|----------------|-------------------------------------|-----------------------------------|--------------------------------------|
| Wind speed     | 0 – 60 $\text{m}\cdot\text{s}^{-1}$ | 0.01 $\text{m}\cdot\text{s}^{-1}$ | $\pm 0.1\text{ m}\cdot\text{s}^{-1}$ |
| Wind direction | 0 – 360°                            | 1°                                | $\pm 2^\circ$                        |

Wind speed and wind direction monitoring would be performed at 10 m AGL, in accordance with best practice.

#### 6.2.2.2. Trigger Levels

Table 10 outlines the tiered trigger levels which allows an appropriate management response / action associated with increasing risk of off-site dust impacts. A hierarchy of management and mitigation options would be initiated should the cascading trigger levels be reached (refer Section 6.2.2.3).

As discussed in Section 6.2.2, it is noted that in conditions when the background particulate environment is already in exceedance of the relevant criteria (refer Table 6) due to significant external sources (such as dust storms or bushfire), then modification of activities may not result in any meaningful reductions in off-site impacts associated with the construction activities. However, the TARP has been designed to enable proactive control of the construction impact in all conditions and includes wind speed triggers to allow modification of activities in increasing wind speeds.

To allow an appropriate management response / action associated with increasing risk of off-site particulate impacts, a 'traffic light' system is outlined, adopting a cascading action level. The TARP will be based on  $PM_{10}$  measurements, given that the criterion for TSP is an annual average. Controlling short-term  $PM_{10}$  concentrations is anticipated to ensure that the annual average TSP criterion is also achieved.

Where the measured 1-hour average  $PM_{10}$  concentration is less than  $50 \mu\text{g}\cdot\text{m}^{-3}$  at all monitoring stations, and there is no observation of visible dust beyond the site boundary, the standard dust control measures will be implemented and reviewed on an ongoing basis.

Note that an exceedance of the 1-hour  $PM_{10}$  concentration provides opportunity for measures to be implemented to ensure that the 24-hour average (00 to 23 hours) concentration can be managed effectively.

Where the measured 1-hour average  $PM_{10}$  concentration is greater than  $50 \mu\text{g}\cdot\text{m}^{-3}$  at any monitoring station, the Down-Wind Increment (DWI) will be calculated to determine the calculated 'site contribution'. The DWI will take into account the hourly average wind direction and identify the monitors which are upwind and downwind of the works being performed. The DWI is calculated by subtracting the upwind measurement from the downwind measurement. These calculations would be programmed by the equipment supplier. Following calculation of the DWI, the following actions will be undertaken:

- Where the calculated DWI is less than  $5 \mu\text{g}\cdot\text{m}^{-3}$ , or visible dust is observed beyond the site boundary, Action Level A will be triggered and the cascade response as described in Section 6.2.2.3 will be employed.
- Where the calculated DWI is greater than  $5 \mu\text{g}\cdot\text{m}^{-3}$  and less than  $10 \mu\text{g}\cdot\text{m}^{-3}$ , or visible dust is observed beyond the site boundary or there is a justified dust complaint, Action Level B will be triggered and the cascade response as described in Section 6.2.2.3 will be employed.
- Where the calculated DWI is greater than  $10 \mu\text{g}\cdot\text{m}^{-3}$ , or visible dust is observed beyond the site boundary or there is a justified dust complaint, Action Level C will be triggered and the cascade response as described in Section 6.2.2.3 will be employed.



Table 10 Trigger Levels

| Action Level | 1-hour average PM <sub>10</sub> concentration (µg·m <sup>-3</sup> )                                                                                                                                                                                                                                             |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| None         | Concentration at any monitor <50 µg·m <sup>-3</sup><br>or<br>No visible dust observed leaving the site boundary<br>or<br>Wind speeds < 5.4 m·s <sup>-1</sup> (< 19.4 km·hr <sup>-1</sup> )                                                                                                                      |
| A            | Concentration at any monitor ≥50 µg·m <sup>-3</sup><br>and<br>1-hour average DWI <5 µg·m <sup>-3</sup><br>or<br>Visible dust observed leaving the site boundary<br>or<br>Wind speeds ≥ 5.5 m·s <sup>-1</sup> (≥ 19.8 km·hr <sup>-1</sup> )                                                                      |
| B            | Concentration at any monitor ≥50 µg·m <sup>-3</sup><br>and<br>1-hour average DWI ≥5 µg·m <sup>-3</sup> and <10 µg·m <sup>-3</sup><br>or<br>Visible dust observed leaving the site boundary<br>or<br>Receipt of a justified complaint<br>or<br>Wind speeds ≥ 6.8 m·s <sup>-1</sup> (≥ 24.5 km·hr <sup>-1</sup> ) |
| C            | Concentration at any monitor ≥50 µg·m <sup>-3</sup><br>and<br>1-hour average DWI >10 µg·m <sup>-3</sup><br>or<br>Visible dust observed leaving the site boundary<br>or<br>Receipt of a justified complaint<br>or<br>Wind speeds ≥ 8 m·s <sup>-1</sup> (≥ 28.8 km·hr <sup>-1</sup> )                             |

### 6.2.2.3. Response to Trigger Levels

Should trigger levels outlined in Table 10 be reached, then a hierarchy of management and mitigation options will be initiated as identified in Table 11 and Table 12. These controls will be implemented appropriate to the activities being performed at the Development site at that time and are reflective of increased risk of dust generation and potential impact of dust emissions.

Table 11 outlines the actions and responsibilities if a level is triggered.

**Table 11 Action level responses**

| Action level | Response                                                                                                                                                                       |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| None         | No response required beyond the continued implementation of standard dust controls (refer Section 6.3)                                                                         |
| A            | Identify activities being performed and whether any additional emission controls can be applied to those activities (e.g. watering of roads and stockpiles, water sprays etc.) |
| B            | Apply the controls identified during Action Level A                                                                                                                            |
| C            | Depending on the activities being performed, progressively decrease the rate of activity or cease operations if emissions cannot be adequately controlled                      |

The identification of additional control measures should include, but not be limited, to the measures outlined in Table 12.

**Table 12 Additional controls**

| Emission source group | Additional controls                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| Transport             | Water sprays on unpaved road surfaces<br>Reduction in vehicle speeds<br>Re-routing vehicles where possible |
| Material handling     | Minimise drop heights<br>Additional watering at transfer points (loading and unloading)                    |
| Wind erosion          | Additional watering<br>Limit activities on stockpiles                                                      |

### 6.3. Emission Control Measures

The emission control measures to be employed at the Development site during construction are outlined in Table 13.

It is noted that a number of the emission control measures originally outlined in the EIS (Willowtree Planning, 2021) are considered to not be relevant to the Development and correspondingly, these have not been included in Table 13. For clarity, the control measures previously outlined in the EIS (Willowtree Planning, 2021) not included in this CAQMP comprise:

- Erect solid screens or barriers around dusty activities or the site boundary that they are at least as high as any stockpiles on site;
- Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period;
- Avoid explosive blasting, using appropriate manual or mechanical alternatives; and



- 
- 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.

**Table 13 Air quality management measures adopted during Development construction**

| ID                                                                                                 | Control measure                                                                                                                                                                       | Source                      | Responsibility  | Monitoring/audit/inspection                                                              | Timing                        |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|------------------------------------------------------------------------------------------|-------------------------------|
| <b>Identified through review of major emissions sources (Section 3.4)</b>                          |                                                                                                                                                                                       |                             |                 |                                                                                          |                               |
| AQ1                                                                                                | Watercarts and handheld water sprays on site to control dust (see also AQ25), especially on exposed surfaces and stockpiles.                                                          | Section 3.4                 | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist                  | Throughout construction works |
| AQ2                                                                                                | Minimise drop heights from truck dumping to 1.5m.                                                                                                                                     | Section 3.4                 | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist                  | During loading and unloading  |
| <b>Identified through review of the Environmental Impact Statement (Willowtree Planning, 2021)</b> |                                                                                                                                                                                       |                             |                 |                                                                                          |                               |
| AQ3                                                                                                | Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.                                                             | (Willowtree Planning, 2021) | Site supervisor | As per communications plan                                                               | Throughout construction works |
| AQ4                                                                                                | Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary. This may be the environment manager/engineer or the site manager. | (Willowtree Planning, 2021) | Site supervisor | Construction Compliance Report                                                           | Throughout construction works |
| AQ5                                                                                                | Display the head or regional office contact information.                                                                                                                              | (Willowtree Planning, 2021) | Site supervisor | Construction Compliance Report                                                           | Throughout construction works |
| AQ6                                                                                                | Develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the relevant regulatory bodies.                                | (Willowtree Planning, 2021) | Site supervisor | This document is a DMP (also termed an AQMP). See responsibilities through this document | Throughout construction works |



| ID   | Control measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Source                      | Responsibility  | Monitoring/audit/inspection                                                 | Timing                        |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-----------------------------------------------------------------------------|-------------------------------|
| AQ7  | Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken.                                                                                                                                                                                                                                                                                                                             | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist                                          | Throughout construction works |
| AQ8  | Make the complaints log available to the local authority when asked.                                                                                                                                                                                                                                                                                                                                                                                                                        | (Willowtree Planning, 2021) | Site supervisor | Construction Compliance Report                                              | Throughout construction works |
| AQ9  | Record any exceptional incidents that cause dust and/or air emissions, either on- or offsite, and the action taken to resolve the situation in the log book.                                                                                                                                                                                                                                                                                                                                | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist                                          | Throughout construction works |
| AQ10 | Hold regular liaison meetings with other high-risk construction sites within 500 m of the site boundary, to ensure plans are coordinated and dust and particulate matter emissions are minimised. It is important to understand the interactions of the off-site transport/ deliveries which might be using the same strategic road network routes.<br><br>Managing cumulative dust emissions with the surrounding sites may be addressed as part of the Mamre Road Precinct Working Group. | (Willowtree Planning, 2021) | Site supervisor | See CEMP                                                                    | Throughout construction works |
| AQ11 | Undertake daily on-site and off-site inspections where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary.                                                                                                                                         | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br><br>Site supervisor's daily checklist | Throughout construction works |
| AQ12 | Carry out daily site inspections to monitor compliance with the dust management plan / CEMP, record inspection results, and make an inspection log available to the local authority when asked.                                                                                                                                                                                                                                                                                             | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist                                          | Throughout construction works |



| ID   | Control measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Source                      | Responsibility  | Monitoring/audit/inspection                                             | Timing                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------|-------------------------------|
| AQ13 | Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.                                                                                                                                                                                                                                                     | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ14 | Agree dust deposition, dust flux, or real-time continuous monitoring locations with the relevant regulatory bodies. Where possible commence baseline monitoring at least three months before work commences on site or, if it a large site, before work on a phase commences.<br><br>It is noted that review of this CAQMP through the Planning Secretary is considered to meet the requirements of this measure regarding the monitoring locations and method as outlined in Section 6.2. | (Willowtree Planning, 2021) | Site supervisor | See Section 6.2                                                         | Throughout construction works |
| AQ15 | Plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible.                                                                                                                                                                                                                                                                                                                                                                     | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist                                      | Throughout construction works |
| AQ16 | Avoid site runoff of water or mud through implementation of the erosion and sediment control plan.                                                                                                                                                                                                                                                                                                                                                                                         | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ17 | Keep site fencing, barriers and scaffolding clean using wet methods.                                                                                                                                                                                                                                                                                                                                                                                                                       | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |

| ID   | Control measure                                                                                                                                                                                                                                                                                                                                                                            | Source                      | Responsibility  | Monitoring/audit/inspection                                             | Timing                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------|-------------------------------|
| AQ18 | Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover as described below.                                                                                                                                                                                                            | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ19 | Cover, seed or fence stockpiles to prevent wind erosion during windy conditions and/or outside of periods when loading and unloading activities are being performed and for any stockpiles that have been inactive for two weeks or more.                                                                                                                                                  | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ20 | Ensure all on-road vehicles comply with relevant vehicle emission standards, where applicable.                                                                                                                                                                                                                                                                                             | (Willowtree Planning, 2021) | Site supervisor | Construction Compliance Report                                          | Throughout construction works |
| AQ21 | Ensure all vehicles switch off engines when stationary - no idling vehicles.                                                                                                                                                                                                                                                                                                               | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ22 | Avoid the use of diesel or petrol-powered generators and use mains electricity or battery powered equipment where practicable.                                                                                                                                                                                                                                                             | (Willowtree Planning, 2021) | Site supervisor | Construction Compliance Report                                          | Throughout construction works |
| AQ23 | Impose and signpost a maximum-speed-limit of 25 km·h <sup>-1</sup> on surfaced and 15 km·h <sup>-1</sup> on unsurfaced haul roads and work areas (if long haul routes are required these speeds may be increased with suitable additional control measures provided, subject to the approval of the nominated undertaker and with the agreement of the local authority, where appropriate. | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ24 | Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials.                                                                                                                                                                                                                                                                                           | (Willowtree Planning, 2021) | Site supervisor | Construction Compliance Report                                          | Throughout construction works |





| ID   | Control measure                                                                                                                                                                                              | Source                      | Responsibility  | Monitoring/audit/inspection                                             | Timing                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------|-------------------------------|
| AQ25 | Implement a Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing).                                                                               | (Willowtree Planning, 2021) | Site supervisor | Construction Compliance Report                                          | Throughout construction works |
| AQ26 | Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems. | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ27 | Ensure an adequate water supply on the site for effective dust/particulate matter suppression/ mitigation, using non-potable water where possible and appropriate.                                           | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ28 | Use enclosed chutes and conveyors and covered skips.                                                                                                                                                         | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ29 | Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.                                     | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ30 | Ensure equipment is 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.                               | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ31 | Avoid bonfires and burning of waste materials.                                                                                                                                                               | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist                                      | Throughout construction works |

| ID   | Control measure                                                                                                                                                                                                                                                                                                                                                     | Source                      | Responsibility  | Monitoring/audit/inspection                                             | Timing                        |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------|-------------------------------|
|      |                                                                                                                                                                                                                                                                                                                                                                     |                             |                 | Site supervisor's daily checklist                                       |                               |
| AQ32 | Soft strip inside buildings before demolition (retaining walls and windows in the rest of the building where possible, to provide a screen against dust).                                                                                                                                                                                                           | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ33 | Ensure effective water suppression is used during demolition operations. Hand held sprays are more effective than hoses attached to equipment as the water can be directed to where it is needed. In addition, high volume water suppression systems, manually controlled, can produce fine water droplets that effectively bring the dust particles to the ground. | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ34 | Bag and remove any biological debris or damp down such material before demolition.                                                                                                                                                                                                                                                                                  | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ35 | Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable.                                                                                                                                                                                                                                                              | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ36 | Use Hessian, mulches or trackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable.                                                                                                                                                                                                                                          | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |

| ID   | Control measure                                                                                                                                                                                                               | Source                      | Responsibility  | Monitoring/audit/inspection                                             | Timing                        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------|-------------------------------|
| AQ37 | Only remove the cover in small areas during work and not all at once.                                                                                                                                                         | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ38 | Avoid scabbling (roughening of concrete surfaces) if possible.                                                                                                                                                                | (Willowtree Planning, 2021) | Site supervisor |                                                                         | Throughout construction works |
| AQ39 | Ensure sand and other aggregates are stored in bunded areas and 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. | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ40 | For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust.                                                                                                       | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ41 | Use water-assisted dust sweeper(s) on the access and local roads to remove, as necessary, any material tracked out of the site.                                                                                               | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ42 | Avoid dry sweeping of large areas.                                                                                                                                                                                            | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ43 | Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.                                                                                                                       | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist                                      | Throughout construction works |





| ID   | Control measure                                                                                                                                           | Source                      | Responsibility  | Monitoring/audit/inspection                                             | Timing                        |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------|-------------------------------|
|      |                                                                                                                                                           |                             |                 | Site supervisor's daily checklist                                       |                               |
| AQ44 | Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.                               | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ45 | Record all inspections of haul routes and any subsequent action in a site log book.                                                                       | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ46 | Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned. | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ47 | 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.          | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ48 | Access gates to be located at least 10 m from receptors where possible.                                                                                   | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |



| ID   | Control measure                                                                                                                                                                                                                        | Source                      | Responsibility  | Monitoring/audit/inspection                                             | Timing                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------|-------------------------------|
| AQ49 | Retain existing vegetation, where appropriate and implementing additional vegetated buffers around the boundary of the site to provide a physical barrier to the transportation of pollutants in the direction of sensitive receptors. | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ50 | Cleared vegetation, demolition materials and other combustible waste material will not be burnt on-site.                                                                                                                               | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ51 | All waste materials be appropriately contained (in skips, bins) and covered during adverse weather conditions and handled in accordance with the Subject Site's Waste Management Plan.                                                 | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ52 | Disturb only the minimum area necessary.                                                                                                                                                                                               | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ53 | Stabilise all disturbed areas as soon as practicable to prevent or minimise windblown dust.                                                                                                                                            | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ54 | Regularly assess weather conditions to identify adverse weather conditions that are unfavourable in terms of dust levels at receptor locations surrounding the site and modify activities accordingly.                                 | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |



| ID           | Control measure                                                                                                                                                                                        | Source                      | Responsibility  | Monitoring/audit/inspection                                             | Timing                         |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------------------------------------|--------------------------------|
| AQ55         | Apply water sprays to trucks and loading points for dust suppression.                                                                                                                                  | (Willowtree Planning, 2021) | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works  |
| <b>Other</b> |                                                                                                                                                                                                        |                             |                 |                                                                         |                                |
| AQ56         | Inspect all plant and equipment regularly to ensure that it is maintained in accordance with manufacturers specifications.                                                                             | -                           | Site supervisor | Environmental inspection checklist                                      | Throughout construction works  |
| AQ57         | Inspect the operation of all plant and equipment to ensure that it is being operated in a proper and efficient manner.                                                                                 | -                           | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works  |
| AQ58         | Implementation of a haulage plan to avoid dust generation on unpaved roads.                                                                                                                            | -                           | Site supervisor | Environmental inspection checklist                                      | Duration of construction works |
| AQ59         | Progressive rehabilitation as work areas become inactive or are ready for final landscaping to limit amount of exposed surface.                                                                        | -                           | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works  |
| AQ60         | Installation of an appropriately designed truck wash including a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable). | -                           | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works  |
| AQ61         | Trucks associated with the development do not track dirt onto the public road network.                                                                                                                 | Table 2                     | Site supervisor | Environmental inspection checklist                                      | Throughout construction works  |





| ID   | Control measure                                                                                                                                                            | Source  | Responsibility  | Monitoring/audit/inspection                                             | Timing                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-------------------------------------------------------------------------|-------------------------------|
|      |                                                                                                                                                                            |         |                 | Site supervisor's daily checklist                                       |                               |
| AQ62 | Public roads used by these trucks are kept clean.                                                                                                                          | Table 2 | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |
| AQ63 | Monitor the state of roadways leading to and from the site during construction and take all necessary steps to clean up any adversely impacted road pavements as directed. | -       | Site supervisor | Environmental inspection checklist<br>Site supervisor's daily checklist | Throughout construction works |

## 6.4. Contingency Plan

As required by Condition C1 (e) of the Consent, a contingency plan to manage any unpredicted impacts and their consequences is required to ensure that ongoing impacts reduce to levels below the impact assessment criteria as quickly as possible.

The contingency management plan is presented in Table 14.

## 6.5. Training

All personnel, including employees, contractors and sub-contractors, are required to complete a project induction containing relevant environmental information before they are authorised to work on the Development.

Air quality specific information to be covered in the project induction will include:

- Obligations under the project Conditions of Approval (including the CAQMP), including the identification of potential sources of air pollutants of concern and the mitigation measures to be implemented, including measures (e.g. use of water, cover exposed areas) during weather conditions where high levels of dust are probable;
- Responsibilities relating to the management of air quality under the POEO 1997 and POEO (Clean Air) Regulation 2022;
- Typical construction activities that may impact air quality and associated environmental safeguards; and
- Incident response procedures.

It is noted that all personnel are required to complete training associated with additional components as outlined in section 3 of the CEMP.

Table 14 Contingency management plan

| Parameter                                                     | Trigger / response | Action level                                       |                                                                                                 |                                                                                                                                                    |
|---------------------------------------------------------------|--------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                               |                    | A                                                  | B                                                                                               | C                                                                                                                                                  |
| Real-time air quality monitoring indicates triggers activated | Trigger            | See Table 10                                       | See Table 10                                                                                    | See Table 10                                                                                                                                       |
|                                                               | Response           | See Table 10                                       | See Table 10                                                                                    | See Table 10                                                                                                                                       |
| Visible dust leaving the site boundary                        | Trigger            | Daily inspection indicates no visible dust offsite | Daily inspection indicates high risk of visible dust migrating offsite                          | Daily inspection indicates any visible dust offsite                                                                                                |
|                                                               | Response           | No response                                        | Investigate dust generating activities and implement appropriate additional emission controls   | Immediately investigate dust generating activities and cease associated operations. Implement appropriate emission controls prior to recommencing. |
| Results of deposited dust monitoring program                  | Trigger            | Monthly review indicates no exceedances            | Monthly review indicates one or more exceedance                                                 | Consecutive monthly exceedances at one or more locations                                                                                           |
|                                                               | Response           | No response                                        | Investigate activities that may have contributed to exceedance and implement emission controls. | Implement appropriate emission controls and consider additional real-time monitoring if the source is deemed to be project related.                |
| Complaints received regarding dust                            | Trigger            | No complaints received                             | One complaint received                                                                          | Multiple complaints received regarding same source                                                                                                 |
|                                                               | Response           | No response                                        | Investigate dust generating activities and implement appropriate additional emission controls   | Review monitoring data, progressively decrease the rate of activity or cease operations if emissions cannot be adequately controlled               |



## 7. REVIEW AND IMPROVEMENT

A daily site inspection will be performed by the Site Supervisor and will include relevant checks to ensure that the air quality management measures outlined in Table 13 are achievable. Any identified remedial actions will be promptly addressed.

Monitoring of dust emissions will be performed through the daily site inspection and visible observations by the Site Supervisor. The dust control observations will be made during the morning and repeated as required to adequately account for changing conditions. A 'Daily Checklist' will be used to record each day's visible dust observations, noting any potential sources that may change due to changing conditions or require further observation.

If conditions change significantly on-site subsequent to the performance of the daily check, further 'ad-hoc' checks will also be performed and documented in the same manner.

Training of staff and contractors will include dust management as outlined in Section 6.5.

Through observations made during the site check, or through notification by staff or contractors, the Site Supervisor will have the authorisation to review operations performed on-site and alter site activities and/or additional controls necessary to effectively manage those risks.

Key Performance Indicators for the construction of the Development would be associated with the triggers in Table 7.

Revision of the AQMP would be performed as per Condition C8 of the consent (as relevant to air quality management):

Within three months of:

- a. the submission of a Compliance Report under condition C14;
- b. the submission of an incident report under condition C10;
- c. the approval of any modification of the conditions of consent; or
- d. the issue of a direction of the Planning Secretary under condition A2(b) which requires a review.

The CAQMP would be subject to review after the first three months of operation, and then after every 6 months to ensure applicability to Development activities. This meets the requirement of Condition C1(h) of the Conditions of Consent. Additionally, the most recent version of the CAQMP approved by the Planning Secretary must be implemented for the duration of the development as per Condition B84(b).

## **7.1. Incident and Non-Compliance Handling Procedure**

An incident is defined in the CEMP 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"*. In relation to air quality, this relates to any activities or instances where a non-compliance or breach of air quality standards occurs.

In accordance with Condition C10, the Planning Secretary and other relevant regulatory agencies must be notified immediately after the Applicant becomes aware of an incident. Incidents must also be reported in accordance with the requirements of the POEO Act.

The incident and non-compliance handling procedure as outlined in the CEMP is summarised below.

## **7.2. Non-Compliance, Corrective and Preventive Action**

Environmental inspection and observation results are interpreted to identify actual and potential non-conformances and events that may result in nuisance, environmental harm and unacceptable loss of amenity or community complaints. The Environmental Representative and/or a public authority may also raise a non-compliance or improvement notice.

Where non-compliances are identified during regular inspections, corrective actions are raised, tracked and closed out through the inspection records.

Following the identification of a non-compliance, corrective and/or preventative actions will be identified and assigned to the appropriate person with set timeframes. Timeframes will be set to ensure any damage incurred is rectified and any chance of recurrence is eliminated as soon as practicable. An appropriate register will be used to assign, track and close out corrective actions.

Any instances of non-compliance must be reported to the Planning Secretary within seven days after the Applicant becomes aware of any non-compliance. As required under Condition C12, A non-compliance notification must outline the reason for the non-compliance (if known) and what actions have been, or will be undertaken to address the non-compliance.

## **7.3. Complaints Handling Procedure**

Burton Contractors will implement a complaints handling procedure in accordance with the CEMP as follows:

### **7.3.1. Record and Acknowledge**

The Project Manager will immediately be notified upon the receipt of any complaints made verbally or written. It is noted that the Project Manager will be made available 24 hours of the day, seven days a week and has

authority to cease operations if required. The complainants name, address, contact information along with the nature of the complaint will be requested.

#### 7.3.2. Assess and Prioritise

The Project Manager will prioritise complaints with consideration of the potential risk to health and safety and will attempt to provide an immediate response to the complainant.

#### 7.3.3. Investigate

An investigation will be performed to confirm the details relevant to the complaint and the potential cause of the incident. Any available monitoring information will be reviewed at the time of a complaint.

#### 7.3.4. Action or Rectify

Once the potential cause of the complaint has been determined, appropriate emission control measures outlined in Table 13 will be implemented to mitigate any further impact.

#### 7.3.5. Respond to Complainant

The Project Manager will oversee the rectification of the incident and respond to the complainant once the issue has been resolved. The complainant will receive a verbal response on what action is proposed within a 24 hour period. In the event that a complaint cannot be resolved following the initial verbal response, a written response will be provided to the complainant within ten days.

#### 7.3.6. Record

An assessment of the complaint and associated incident will be performed in order to minimise the potential for similar complaints to be received. All complaints and associated mitigation measures will be recorded in the Complaints Register which will be maintained for at least five years.

### 7.4. Record Keeping

Burton Contractors or the Site Supervisor will keep a record of components outlined in this CAQMP as follows:

- Air quality monitoring data;
- Daily inspections; and
- Complaints data.



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## 7.5. Reporting to the Environmental Representative

As required by Condition A37, the Applicant will provide the Environmental Representative (ER) with all documentation requested to perform their functions, including:

- Air quality monitoring data;
- Complaints data (as per Section 7.37.4).

As required by NSW DPHI, air quality monitoring results would be reviewed monthly at a minimum and included in the monthly ER report.

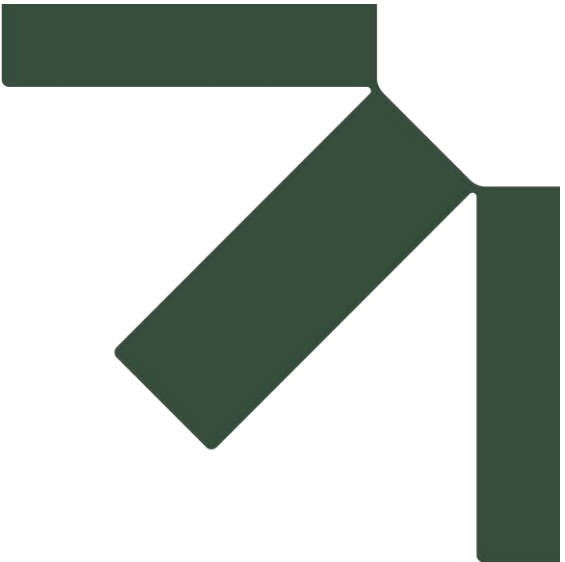
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## APPENDIX A

Martin Doyle - CV







## **Appendix H      Waste Management Plan**



**Sydney  
Environmental**  
Group

## Waste Management Plan

Atlis Access Estate, Kemps Creek NSW

**Burton Contractors Pty Ltd**

**Report No:** 2424-WMP-01-140224.v6f

**Report Date:** 14 June 2024

📍 **Sydney Environmental Group Pty Ltd PO Box  
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## DOCUMENT RECORD

| Revision | Date             | Author              | Reviewer       |
|----------|------------------|---------------------|----------------|
| v1f      | 14 February 2024 | Marianne Rajkumar   | Steven Wallace |
| v2f      | 29 February 2024 | Marianne Rajkumar   | Steven Wallace |
| v3f      | 8 April 2024     | Isabelle Figatowski | Steven Wallace |
| v4f      | 23 April 2024    | Isabelle Figatowski | Steven Wallace |
| v5f      | 3 May 2024       | Isabelle Figatowski | Steven Wallace |
| v6f      | 14 June 2024     | Isabelle Figatowski | Steven Wallace |

|                  |                                                                                   |                                                                                   |                    |                                                                                     |
|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|
| Author Signature |  |  | Reviewer Signature |  |
| Name             | Marianne Rhea                                                                     | Isabelle Figatowski                                                               | Name               | Steven Wallace                                                                      |
| Credentials      | B.E. Civil Engineering                                                            | B. Sc. (Env. Consulting)                                                          | Credentials        | CEnvP, M.Sc.Envir.Sci,<br>B.Sc. Meteorology                                         |
| Title            | Environmental Scientist                                                           | Environmental Scientist                                                           | Title              | Managing Consultant                                                                 |

|                            |                                                             |
|----------------------------|-------------------------------------------------------------|
| Document Title:            | Waste Management Plan, Atlis Access Estate, Kemps Creek NSW |
| Site Address:              | 884-928 Mamre Road, Kemps Creek NSW                         |
| Client Name:               | Burton Contractors Pty Ltd                                  |
| Site Size:                 | ≈ 20.3 ha                                                   |
| Reference Number:          | 2424-WMP-01-140224.v6f                                      |
| Project Type:              | Waste Management Plan                                       |
| Project Type Abbreviation: | WMP                                                         |
| Document Draft:            | FINAL                                                       |
| Document Revision No.      | v6                                                          |

Prepared by Sydney Environmental Group Pty Ltd ABN: 14 631 026 214





## 1. INTRODUCTION

Sydney Environmental Group Pty Ltd (SE) was engaged Burton Contractors Pty Ltd (the client), to prepare a Waste Management Plan (WMP) for the proposed redevelopment works located within the Atlis Access Estate at 884-928 Mamre Road, Kemps Creek NSW (refer **Figure 1**).

SE has the following project appreciation:

- The site is comprised of Lots 52 & 53 in Deposited Plan (DP) 259135 encompassing an area of 20.3 ha;
- The site is proposed for redevelopment comprising demolition of existing structures, construction of an industrial estate comprising bulk earthworks, fit out and operation of a warehouse and distribution centre; and
- A WMP is required for submission to the Environmental Representative (ER) for review and endorsement in accordance with Condition A36(e) before submission to the Planning Secretary for approval in accordance with Condition C2.

SE was engaged to:

- Prepare a WMP for the proposed construction and demolition activities of the client at the site.

The site identification details and associated information are presented in **Table 1** below.

**Table 1.** Site Identification Information

| Attribute                   | Description                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------|
| Street Address              | 884-928 Mamre Road, Kemps Creek NSW                                                            |
| Lot and Deposited Plan (DP) | Lots 52 & 53 DP259135                                                                          |
| Geographical Coordinates    | 33°50'49.49"S 150°47'15.21"E (Centre of site)                                                  |
| Site Area                   | ≈ 20.3 ha                                                                                      |
| Local Government Area (LGA) | Penrith City Council                                                                           |
| Zoning                      | IN1 General Industrial<br>(State Environmental Planning Policy (Industry and Employment) 2021) |

The locality and the general layout of the site are set out in **Figure 1**.

### 1.1. Project Description

The proposed development comprises demolition of existing structures, and construction of an industrial estate comprising bulk earthworks, fit out and operation of a warehouse and distribution centre and ancillary office space with a total gross floor area of 39,161 m<sup>2</sup>, landscaping, staged 1 and 2 residual lot subdivision, construction of estate roads and intersection, site servicing and stormwater infrastructure.

The purpose of this WMP is to promote favourable environmental outcomes associated with the management of waste on this project. The WMP sets out all the safeguards required to minimise any adverse impacts to the environment. The project will aim to recycle as much construction waste as possible during demolition and construction as outlined in **Table 4**.

### 1.2. Objectives of the WMP

The objectives of the WMP are to:

- Detail the quantities and classification of all waste streams to be generated on-site during the development;



- Detail the waste storage, handling and disposal during the development; and
- Satisfy Condition A36, B101, B104, B105, B108, B109, B110, B111, C1, C8 and C9 of the development consent (SSD-17647189).

### 1.3. Development Consent Conditions

Refer to **Table 1** below for references to Sections within the WMP in accordance with the conditions outlined in Condition C1 (SSD-17647189).

**Table 1.1** Relevant Development Consent Conditions

| Development Consent Reference | Condition Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Section of Report |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| A36                           | <p>The Applicant must engage an Environmental Representative (ER) to oversee earthworks, subdivision and construction of the development. Unless otherwise agreed to by the Planning Secretary, the earthworks and 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:</p> <ul style="list-style-type: none"> <li>(a) be a suitably qualified and experienced person who was not involved in the preparation of the EIS, RtS and any additional information for the development and is independent from the design and construction personnel for the development;</li> <li>(b) receive and respond to communication from the Planning Secretary in relation to the environmental performance of the development;</li> <li>(c) consider and inform the Planning Secretary on matters specified in the terms of this consent;</li> <li>(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;</li> <li>(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 style="list-style-type: none"> <li>a. 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> <li>b. 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);</li> </ul> </li> <li>(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;</li> <li>(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;</li> <li>(h) as may be requested by the Planning Secretary, assist the Department in the resolution of community complaints;</li> <li>(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;</li> </ul> | Ongoing           |



| Development Consent Reference | Condition Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Section of Report           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                               | <ul style="list-style-type: none"> <li>(j) attend the Mamre Road Precinct Working Group (see Condition A39) in a consultative role in relation to the environmental performance of the development;</li> <li>(k) review the monthly audits of the erosion and sediment controls undertaken by the CPESC in accordance with Condition B36; and</li> <li>(l) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report providing the information set out in the Environmental Representative Protocol under the heading 'Environmental Representative Monthly Reports'. The Environmental Representative Monthly Report must be submitted within seven calendar days following the end of each month for the duration of the ER's engagement for the development, or as otherwise agreed with the Planning Secretary.</li> </ul> |                             |
| C1                            | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -                           |
| C1 (a)                        | Detailed baseline data;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Section 1 and Section 3     |
| C1 (b)                        | Details of: <ul style="list-style-type: none"> <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 2.2                 |
| C1 (c)                        | A description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Section 2.2 and Section 3   |
| C1 (d)                        | A program to monitor and report on the: <ul style="list-style-type: none"> <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 3.5                 |
| C1 (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 3.6                 |
| C1 (f)                        | A program to investigate and implement ways to improve the environmental performance of the development over time;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Section 3.5                 |
| C1 (g)                        | A protocol for managing any: <ul style="list-style-type: none"> <li>(i) 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 3.6 and Section 3.7 |
| C1 (h)                        | A protocol for periodic review of the plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section 3.5                 |
| B101                          | The Applicant must ensure that any asbestos encountered during the earthworks and construction is monitored, handled, transported and disposed of by appropriately qualified and licensed contractors in accordance with the requirements of SafeWork NSW and relevant guidelines, including: <ul style="list-style-type: none"> <li>(a) Work Health and Safety Regulation 2017;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section 2.2                 |





| Development Consent Reference | Condition Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section of Report            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|                               | (b) SafeWork NSW Code of Practice – How to Manage and Control Asbestos in the Workplace September 2016;<br>(c) SafeWork NSW Code of Practice – How to Safely Remove Asbestos September 2016; and<br>(d) Protection of the Environment Operations (Waste) Regulation 2014.                                                                                                                                                                                                                                                            |                              |
| B104 (a)                      | The plan must detail the quantities and each waste type generated during construction and the proposed reuse, recycling and disposal locations                                                                                                                                                                                                                                                                                                                                                                                       | Table 5 and Table 6          |
| B104 (b)                      | The plan must be implemented for the duration of construction works                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ongoing                      |
| B105                          | The Applicant must:<br>(a) not commence construction until the Construction and Demolition Waste Management Plan has been prepared; and<br>(b) implement the most recent version of the Construction and Demolition Waste Management Plan approved by the Planning Secretary.                                                                                                                                                                                                                                                        | Ongoing                      |
| B108                          | Prior to the commencement of construction of the warehouse, the Applicant must obtain agreement from Council for the design of the waste storage area for the warehouse.                                                                                                                                                                                                                                                                                                                                                             | Entire document for approval |
| B109                          | 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 3.1                  |
| B110                          | The Applicant must assess and classify all liquid and non-liquid wastes to be taken off-site in accordance with the latest version of the EPA's <i>Waste Classification Guidelines Part 1: Classifying Waste</i> (EPA, 2014) and dispose of all wastes to a facility that may lawfully accept the waste.                                                                                                                                                                                                                             | Section 3.1                  |
| B111                          | The Applicant must:<br>(a) implement suitable measures to manage pests, vermin and declared priority weeds on the site; and<br>(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.                                                                                                                           | Section 3.1                  |
| C8                            | Within three months of:<br>(a) the submission of a Compliance Report under condition C14;<br>(b) the submission of an incident report under condition C10;<br>(c) the approval of any modification of the conditions of this consent; or<br>(d) the issue of a direction of the Planning Secretary under condition A2(b) which requires a review.<br><br>The strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing that a review is being carried out. | Section 3.8                  |
| 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.                                                                                                                     | Section 3.8                  |

Per Condition A36(d) within SSD-17647189, the approved Environmental Representative must consider and recommend to the Applicant any improvements that may be made to work practices to avoid or minimise adverse impacts to the environment and to the community.

## 2. PLANNING REQUIREMENTS

### 2.1 Development and Approval Process

The client is responsible for obtaining all legislative approvals and maintaining environmental documentation throughout the project. They will ensure that all activities undertaken as part of the project are done in accordance with the Development Approval for the site.

Per the requirements within Condition B108 (SSD-17647189), the Applicant must obtain agreement/approval from Council for the design of the waste storage area for the warehouse.

As part of the project review process, legislative and other requirements applicable to the project scope should be identified in a client Legal Register. The Construction Manager is responsible for ensuring that all applicable approvals, permits and licences are held for the project.

### 2.2 Statutory Obligations and Requirements

The SSDA identifies the applicable planning instruments and legislation. The approvals that have the potential to be required are listed in the following table. For more information about the statutory obligations, refer to the site's SSDA Consent.

**Table 2.1** Potential list of approvals required prior or during construction

| Activity Requiring Approval                 | Relevant Condition Consent | Legislation, Licences, Permits or Consents                   | Authority    | Date required / construction stage          | Person responsible | Reporting requirements                                  |
|---------------------------------------------|----------------------------|--------------------------------------------------------------|--------------|---------------------------------------------|--------------------|---------------------------------------------------------|
| Remediation / Removal of asbestos materials | B101                       | Class A or B Asbestos Removal licence issued by SafeWork NSW | SafeWork NSW | During detailed design/ before construction | Project Manager    | Consult with SafeWork NSW regarding permit requirements |

**Table 3** Statutory obligations and requirements for construction works

| Legislation, Licences, Permits or Consents                         | Authority      | Date required / construction stage                      | Person responsible                         | Reporting requirements                                      |
|--------------------------------------------------------------------|----------------|---------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| Protection of the Environment Operations Act 1997                  | NSW Government | During detailed design / before and during construction | Project Manager / Environmental Consultant | Consult with a suitably experienced environmental scientist |
| National Environment Protection Measures                           |                | During detailed design / before and during construction | Project Manager / Environmental Consultant | Consult with a suitably experienced environmental scientist |
| Protection of the Environment Operations (General) Regulation 2022 | NSW Government | During detailed design / before and during construction | Project Manager / Environmental Consultant | Consult with a suitably experienced environmental scientist |
| Protection of the Environment Operations (Waste) Regulation 2014   | NSW Government | During construction                                     | Project Manager / Environmental Consultant | Consult with a suitably experienced environmental scientist |
| Waste Classification Guidelines 2014                               | NSW EPA        | During construction                                     | Project Manager / Environmental Consultant | Consult with a suitably experienced environmental scientist |
| Resource Recovery Orders and Exemptions                            | NSW EPA        | During construction                                     | Project Manager /                          | Consult with a suitably experienced environmental scientist |



|                                                |                |                     |                          |                                                              |
|------------------------------------------------|----------------|---------------------|--------------------------|--------------------------------------------------------------|
|                                                |                |                     | Environmental Consultant |                                                              |
| Waste Avoidance and Resource Recovery Act 2001 | NSW Government | During construction | Project Manager          | Consult with a suitably experienced environmental consultant |

**Table 4 Objectives and Targets Program**

| Objective                                                                                                                                                      | Target                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Actions                                                                                                                                                                               | Reporting                                                                                                  | Responsible                                                                                                                                                         | Time-frame                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A. Waste Minimisation</b><br>To adopt waste minimisation principles and appropriate waste management practices through all stages of the clients operation. | A1. Track and review the amount of waste produced on site on a monthly basis <ul style="list-style-type: none"> <li>• 10% green waste (vegetation, trees etc)</li> <li>• 5% green waste (weeds)</li> <li>• 10% general and recyclable waste – 10% to be reused/recycled</li> <li>• 5% spoil – 100% to be reused/recycled</li> <li>• 30% construction waste – 80% to be reused/recycled</li> <li>• 15% wastewater – 100% to be reused/recycled on-site</li> </ul> | To be managed through implementation of a Waste Management Plan                                                                                                                       | To be reported in Monthly Reports                                                                          | - Overall responsibility for this target lies with the Project Manager.<br>- All incidents to be reported in Monthly Reports                                        | Overall review every six months                                                                                                                                           |
| <b>B. Waste Disposal</b><br>To classify and treat waste spoil generated from construction activities                                                           | B1. No instances of illegal transportation and disposal of either classified or unclassified waste                                                                                                                                                                                                                                                                                                                                                               | - Undertake soil sampling of spoil to increase understanding of material for disposal at an appropriate waste management facility.<br>- Develop and implement a Waste Management Plan | - Ensure log books are filled out<br>- Maintain a waste log on-site<br>- To be reported in Monthly Reports | - Project Manager is to report on waste tracking in Monthly Reports<br>- Undertake appropriate waste classification, treatment, handling and disposal of all waste. | - Additional soil sampling for areas are to commence before construction<br>- Excess spoil may be tested in-situ before construction or in stockpiles during construction |
| <b>C. Visual Amenity</b><br>To minimise visual impacts caused by construction                                                                                  | C1. Visual amenity complaints are minimised and any complaints from the public in regard to static construction activities are closed out within the timeframe agreed with the complainant                                                                                                                                                                                                                                                                       | - To be managed through implementation of a Waste Management Plan                                                                                                                     | - To be reported in Monthly Reports                                                                        | - Overall responsibility for this target lies with the Project Manager<br>- All incidents to be reported in Monthly Reports                                         | Overall review monthly                                                                                                                                                    |



### 3. WASTE MANAGEMENT PLAN

This procedure summarises requirements for waste produced during the proposed redevelopment. Construction and demolition waste will be managed in accordance with the waste management hierarchy:

1. Avoid waste as a first priority
2. Re-use waste, recycle or reprocess
3. Dispose of waste as a last resort

The demolition phase of the project is likely to generate the vast majority of the waste during the redevelopment. The following waste types are likely to be present:

- General demolition waste, including waste concrete, bricks, timber, metal and glass (including glass from windows);
- Surplus materials used during site establishment, such as safety fencing and barriers possibly including plastics and metal;
- General construction waste, such as excess concrete, redundant pieces of pipe/fittings, broken bricks, timber, paper, plastic and metal; and
- Domestic waste, including food scraps, aluminium cans, glass bottles, plastic and paper containers, and putrescible waste generated by site construction staff.

Construction will generate a relatively small amount of waste, however, the client will adequately manage and minimise impacts by implementing the waste mitigation measures listed below:

- Establish a combined waste collection system by a reputable service provider;
- Order appropriate quantities of materials to minimise wastage;
- Control the quality of materials supplied to reduce rework and problems due to quality and additional material consumption;
- Use prefabricated elements where practical and reasonable;
- Establish co-mingled recycling receptacles for packaging and food container waste;
- Separate waste steel and dispose in the steel recycling bin provided on-site;
- Reuse form work as often as possible;
- Send waste timber and formwork to a recycling facility;
- Send waste concrete to a recycling facility;
- Mulch and remove any green waste from site. Where possible depending on the species, reuse for landscaping purposes off-site;
- Recycle general waste such as paper, cardboard, aluminium cans and similar materials from offices and site facilities; and
- The potential for reuse through backfilling will be limited by geotechnical factors and space constraints onsite.

#### 3.1. Waste Storage Handling and Transport

During demolition and excavation, waste will be removed by a suitably licensed contractor and sent to preapproved waste and resource recovery facilities. The handling, storage and transport of hazardous materials and waste will be in accordance with the Workplace Health and Safety Management Plans (WHSMP), relevant National Codes of Practice related to asbestos containing materials, relevant SDS on the product (for all chemical wastes), and hazardous materials management procedures.

Waste oils and chemicals will be stored in a purpose-built secured bunded area. The capacity of the bunded area will be at least 110% of the chemical stored within. An emergency response spill kit will be located adjacent to the bunded area. All storage containers and locations for the various waste streams will be clearly labelled to ensure that mixing of wastes is avoided. Prior to off-site disposal to a licensed waste receiving facility, the liquid waste must be classified and may require tracking during transport.

Soil materials will be stored at the site during construction works and will be temporarily stored within bunded areas prior to movement and/or off-site disposal to a licensed waste receiving facility. All soil material stockpiles must be formed and maintained in accordance with Landcom *Managing Urban Stormwater: Soils and Construction* (2004). All soil material stockpiles will be formed to reduce the release of dust, collapsing and erosion via compaction methods, wetting down of materials and height restrictions. If stockpiles are proposed to remain on-site for more than 10 days, they will be covered by plastic or geotextile materials.

General waste will also be temporarily stored at the site during construction works and will be segregated from other forms of waste whilst retained on-site. All wastes retained on-site will be stored and segregated on-site within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.

Designated waste storage areas will be inspected daily to ensure that all waste storage containers and bins (where applicable) are closed to minimise vermin interaction at the site. Where vermin are observed, a pest control professional will be engaged. In the event priority weeds are encountered at the site, removal of weeds and disposal off-site to a licensed waste receiving facility will be undertaken. To minimise opportunities for priority weeds to be present at the site, vehicles, equipment and footwear that have been in contact with weeds will be decontaminated to prevent weed seed transfer and regular monitoring of waste storage areas and vegetation areas will be undertaken.

All asbestos works will be undertaken in accordance with SafeWork NSW *How to Safely Remove Asbestos (2022)* under the supervision of an appropriately licensed asbestos removalist contractor. For all friable asbestos works, a Class A asbestos removalist supervisor must be present on-site and for all non-friable asbestos works, a Class A or Class B asbestos removal supervisor must be present on-site. Minimum PPE requirements are outlined in the Construction Environmental Management Plan.

Certain waste streams will require EPA waste tracking to ensure that wastes are removed from the site and disposed of at a licensed waste receiving facility. The client will ensure that any waste streams proposed for removal off-site will have the appropriate tracking in place and will be disposed of by an EPA licensed waste contractor. Disposal of all restricted, special and hazardous waste streams will be tracked during disposal works.

All material removed during any de-silting of drainage structures or sediment structures will be disposed in an approved disposal area on-site. Where spoil material is to be removed for off-site disposal, the client will ensure the waste is classified in accordance with the NSW EPA Waste Classification Guidelines and disposed of at an appropriately licensed waste receiving facility.

Care must be taken to ensure no visible oils, sheens, anthropogenic litter or discolouration are released from the site or to stormwater drainage or waterways within the site. Facilities must be provided for litter collection and designated concrete washout basins must be established on-site. All waste storage areas must be kept covered.

A Waste Management Register will be maintained by an appointed contractor within the site, outlining:

- The type of waste and its classification (in line with NSW EPA Waste Classification Guidelines);
- Quantities of waste, measured in tonnes;
- How and where the waste was reused, recycled, stockpiled or disposed of;
- Date when the waste was reused, recycled, stockpiled or disposed of; and
- Name and waste transport licence (if applicable) of the transporter used.

A permanent record of receipts for the removal of both liquid and solid waste from the site should be kept and maintained up to date at all times. Such records should be available in the event they are requested.



**Table 5** Demolition Waste Disposal Forecast

| Waste Type                                          | Estimated Volumes <sup>A</sup> m <sup>3</sup> | Waste Facility              | Recycled On/Off Site   |
|-----------------------------------------------------|-----------------------------------------------|-----------------------------|------------------------|
| Heavy Recyclable Materials (Concrete)               | 6000                                          | Recycling Management Centre | 100% recycled off site |
| Heavy Recyclable Materials (rubble / Brick)         | 500                                           | Recycling Management Centre | 100% recycled off site |
| Light Recyclable Materials (Timber, plastic, glass) | 300                                           | Waste Management Centre     | 100% recycled off site |
| Metals                                              | 2000                                          | Waste Management Centre     | 100% recycled off site |
| Green Waste / Food Scraps                           | 500                                           | Waste Management Centre     | 100% recycled off site |
| General Demolition Waste                            | 200                                           | Waste Management Centre     | Disposed of off site   |
| Asbestos                                            | TBC                                           | Waste Management Centre     | Disposed of off site   |
| <b>Approximate Total Waste</b>                      | 9500 <sup>B</sup>                             |                             |                        |
| <b>Total Recycled</b>                               | 8500 <sup>B</sup>                             |                             |                        |
| <b>Total Disposed</b>                               | 1000 <sup>B</sup>                             |                             |                        |

Notes:

<sup>A</sup> Material density values taken from Advances in Construction and Demolition Waste Recycling (2020)

<sup>B</sup> Quantity to be confirmed

**Table 6** Construction Waste Disposal Forecast

| Waste Type                                          | Estimated Volumes <sup>A</sup> m <sup>3</sup> | Waste Facility              | Recycled On/Off Site   |
|-----------------------------------------------------|-----------------------------------------------|-----------------------------|------------------------|
| Heavy Recyclable Materials (Concrete)               | 100                                           | Recycling Management Centre | 100% recycled off site |
| Heavy Recyclable Materials (rubble / Brick)         | 50                                            | Waste Management Centre     | 100% recycled off site |
| Light Recyclable Materials (Timber, plastic, glass) | 50                                            | Waste Management Centre     | 100% recycled off site |
| Metals                                              | 25                                            | Waste Management Centre     | 100% recycled off site |
| Green Waste / Food Scraps                           | 300                                           | Waste Management Centre     | 100% recycled off site |
| General Construction Waste                          | 80                                            | Waste Management Centre     | Disposed of off site   |
| Asbestos                                            | TBC                                           | Waste Management Centre     | Disposed of off site   |
| <b>Approximate Total Waste</b>                      | 605 <sup>B</sup>                              |                             |                        |
| <b>Total Recycled</b>                               | 1100 <sup>B</sup>                             |                             |                        |
| <b>Total Disposed</b>                               | 505 <sup>B</sup>                              |                             |                        |

Notes:

<sup>A</sup> Material density values taken from Advances in Construction and Demolition Waste Recycling (2020)

<sup>B</sup> Quantity to be confirmed<sup>B</sup>



### **3.2. Fill Material**

Investigative sampling will be undertaken on all spoil materials that require excavation and off-site disposal. Sampling will be undertaken on in-situ and ex-situ soil materials pending the requirements and constraints of the project. Sampling for materials proposed for removal off-site will be undertaken per the NSW EPA Waste Classification Guidelines (2014) or the appropriate NSW EPA Resource Recovery Order. Specific waste classification reports will be developed as an outcome of the investigative sampling. The outcomes of the waste classification report will be discussed with the engaged environmental consultant, and any requirements for management of the waste will be communicated with crews in order to confidently identify specific disposal options and techniques based on any contamination found at the project location.

### **3.3. Naturally occurring sand / Re-usable backfill material**

The fill material will typically be underlain by Wianamatta group shale with sandstone beds. This naturally occurring layer typically may contain suitable geotechnical properties for backfilling.

When suitable quantities are achieved, validation samples will be taken for laboratory analysis and the results compared against the National Environment Protection Measures (NEPM 2013) commercial / industrial (HIL/HSL/ESL) land use criteria (including material with low-level asbestos concentrations).

In order to determine whether soil materials are suitable for re-use within the site, a soil characterisation assessment will be undertaken by an appropriately experienced environmental scientist prior to re-use. Soil sampling will be undertaken per the requirements of NEPM 2013 commercial / industrial (HIL/HSL/ESL) land use criteria.

Any excess material unable to be reused will undergo validation sampling and disposal in accordance with the appropriate NSW EPA Resource Recovery Exemptions and the NSW EPA Waste Classification Guidelines (2014).

### **3.4. Waste Management Site Checklist**

During the project works, waste management monitoring will be conducted to ensure the objectives and targets outlined within this waste management plan are being met.

All regular waste management monitoring activities such as tracking sheets, waste tipping dockets, inspections and audits will be detailed in the site's diary, which is reported against monthly. Any unpredicted impacts or improvement opportunities identified during these inspections will be recorded and investigated. Correct and/or follow up actions arising from investigations will be assigned to a suitable person with an appropriate timeframe for completion.

The frequency and specific monitoring criteria will be assessed periodically throughout the project to ensure objectives are being met.

### **3.5. Incident, Non-Conformance and Corrective and Preventative Action**

The objective of the incident and non-conformance procedure is to ensure that any incident and/or non-conformance caused by or relating to waste management is effectively responded to, reported and/or any environmental impact is promptly prevented or effectively managed.

In the event incidents or non-conformances are noted, they are to be documented and kept up to date by the client. Any corrective and preventative action plans are to be implemented by the client to the satisfaction of the EHS Manager and Penrith City Council. All minor incidents are to be reported, however, will not constitute a non-compliance with the Approved Development Consent.

Records of all incidents, non-conformances and corrective actions shall be kept onsite for inspection by relevant authorities. All records should be kept for a minimum of five (5) years from the date of the incident and/or non-conformance.

All incidents and/or non-conformances will be addressed per the Construction Environmental Management Plan (SLR 2024).



### **3.6. Community Consultation**

The client team will:

- Be responsible for information the community about the construction works including methods, duration and timing of construction and be the primary contact for any community enquiries or issues; and
- Handle complaints received from external parties to the project and ensure they are rectified.

### **3.7. Document Review**

This WMP will be reviewed throughout the course of construction activities at the site to ensure strategies, plans and programs are updated on a regular basis and to ensure appropriate modifications are made. Reviews of strategies, plans and programs will be undertaken every three (3) months. Review will be undertaken where:

- Identification of areas requiring improved performance require documentation.
- Incidents, non-compliances and preventative actions require documentation within this WMP;
- Changes to construction activities change significantly;
- Performance objectives are not being met and require re-consideration and amendment; and
- Review is requested by the relevant regulatory authority.

Any revisions of this document must be submitted to the Planning Secretary for approval within six (6) weeks of the review.



#### **4. STATEMENT OF LIMITATIONS**

The findings presented in this plan are based on information provided by the client, specific searches of relevant, government historical databases and anecdotal information that were made available during the course of this investigation. To the best of our knowledge, these observations represent a reasonable interpretation of the general condition of the site at the time of report completion.

This plan has been prepared solely for the use of the client to whom it is addressed, and no other party is entitled to rely on its findings.

No warranties are made as to the information provided in this plan. All conclusions and recommendations made in this plan are of the professional opinions of personnel involved with the project and while normal checking of the accuracy of data has been conducted, any circumstances outside the scope of this report or which are not made known to personnel and which may impact on those opinions is not the responsibility of Sydney Environmental Group Pty Ltd. Should information become available regarding conditions at the site including previously unknown sources of contamination, SE reserves the right to review the plan in the context of the additional information.

This plan must be reviewed in its entirety and in conjunction with the objectives, scope and terms applicable to SE's engagement. The plan must not be used for any purpose other than the purpose specified at the time SE was engaged to prepare the plan.

Logs, figures, and drawings are generated for this report based on individual SE consultant interpretations of nominated data, as well as observations made at the time site walkover/s were completed.

Data and/or information presented in this report must not be redrawn for its inclusion in other plans or documents, nor should that data and/or information be separated from this report in any way.

Should additional information that may impact on the findings of this plan be encountered or site conditions change, SE reserves the right to review and amend this plan.





## **APPENDICES**



## **APPENDIX A**

### **FIGURE**





**Subject Site**  
Atlis Access Estate, Kemps Creek NSW  
884-928 Mamre Road, Kemps Creek NSW



**Sydney  
Environmental**  
Group

Scale:

100 m

Site Locality and Layout

Client Name:

Burton Contractors Pty Ltd

Project Name:

Waste Management Plan

Project Location:

884-928 Mamre Road, Kemps Creek NSW



Figure Number:

1

Figure Date:

12 February 2024

Report Number:

2245-WMP-01-140224.v6f





## **APPENDIX B**

### **SPOIL MANAGEMENT OBJECTIVES & IMPACTS**



This document has been prepared to address spoil management and will describe how spoil will be managed during construction and redevelopment works within the Atlis Access Estate project.

The envisaged total volume of spoil generation would be approximately 39,600 m<sup>3</sup>. The objectives and targets of spoil management are detailed in **Table B1**.

**Table B1. Spoil Objectives and Targets**

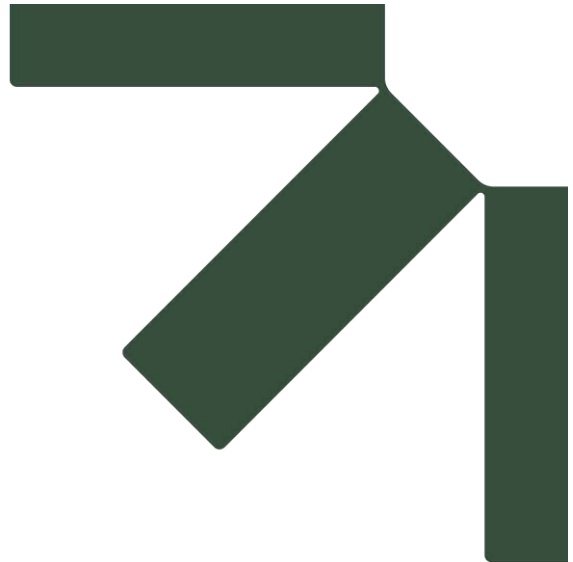
| Objective                                                                                                      | Target                                                          |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Minimise spoil generation where possible                                                                       | 100% reuse or recycling (on or off-site) of usable spoil        |
| Spoil will be managed with consideration to minimising adverse traffic and transport related issues            | No complaints with respect to spoil haulage                     |
| Spoil will be managed to avoid contamination of land or water                                                  | No contamination of land and water from spoil                   |
| Spoil will be managed with consideration of the impacts on residents and other sensitive receptors.            | No dust complaints from Spoil Haulage                           |
| Site contamination will be effectively managed to limit the potential risk to human health and the environment | Unexpected finds protocol implemented if contamination is found |

The key aspects and potential impacts that may be encountered during the management of spoil during the works are described in Table B2.

**Table B2. Aspects and impacts associated with spoil management**

| Aspects        | Potential Impacts                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------------------------|
| Air Quality    | Dust from temporary spoil stockpiles and loading trucks may reduce air quality                                                |
| Community      | Reduction of air quality as a result of dust generation from spoil handling which may require complaint management            |
| Contamination  | Cross contamination of spoil from the inappropriate segregation, storage, transport and disposal of spoil                     |
| Noise          | Disturbance of sensitive receptors as a result of noise associated with spoil management                                      |
| Resources      | Excessive volumes of waste directed to landfill from inadequate collection, segregation, classification and disposal of spoil |
| Sedimentation  | Potential for sediment-laden spoil runoff which may affect nearby waterways                                                   |
| Soil and Water | Pollution from the incorrect storage, handling and disposal of waste                                                          |
| Sustainability | Unavailability of suitable reuse within the site will impact meeting the project sustainability objectives                    |

At this current stage, the only spoil proposed for off-site disposal is existing topsoil at the site. All topsoil proposed for off-site disposal will be classified in accordance with the NSW EPA Waste Classification Guidelines (2014).



# **Appendix I      Flood Management Plan**



**CRC**

**COSTIN ROE  
CONSULTING**

**CIVIL &  
STRUCTURAL  
ENGINEERS**



## **FLOOD MANAGEMENT PLAN (SSD 17647189) INCORPORATING FLOOD EMERGENCY RESPONSE PLAN**

DEVELOPMENT SITE

**884-928 Mamre Road  
Kemps Creek NSW**

*Prepared for:*

Burton Contractors Pty Ltd  
11-21 Underwood Rd  
HOMEBUSH NSW 2140

*Prepared by:*

Costin Roe Consulting  
Level 4, 8 Windmill Street  
MILLERS POINT NSW 2000

Revision: E

| DOCUMENT VERIFICATION |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <b>Project Title</b>  | 884 – 928 Mamre Rd (SSD 17647189)                                     |
| <b>Document Title</b> | Civil Engineering Report Incorporating Flood Emergency Response Plan  |
| <b>Project No.</b>    | Co14021.05                                                            |
| <b>Description</b>    | Flood Management Plan for Proposed Industrial Subdivision Development |
| <b>Client Contact</b> | Burton Contractors Pty Ltd – Mr Andrew David                          |

|                    | Name                          | Signature |
|--------------------|-------------------------------|-----------|
| <b>Prepared by</b> | Charlotte Chu<br>Denis Webber |           |
| <b>Checked by</b>  | Daniel Soliman                |           |
| <b>Issued by</b>   | Denis Webber                  |           |
| <b>File Name</b>   | Co14021.05-02d.rpt            |           |

#### Document History

| Date         | Revision | Issued to                            | No. Copies |
|--------------|----------|--------------------------------------|------------|
| 26 Feb. 2024 | A        | Burton Contractors – Mr Andrew David | PDF        |
| 24 Apr. 2024 | B        | Burton Contractors – Mr Andrew David | PDF        |
| 07 May 2024  | C        | Burton Contractors – Mr Andrew David | PDF        |
| 31 May 2024  | D        | Burton Contractors – Mr Andrew David | PDF        |
| 25 June 2024 | E        | Burton Contractors – Mr Andrew David | PDF        |

## **Emergency Contacts**

*Project Manager:* Zacharia Youssef – 0499 233 203

*Site Supervisor:* Anthony Gobbo – 0437 997 572 (First Aid Trained)

*Safety Officer:* Laura Inglis – 0499 722 998 (First Aid Trained)

*Site Engineer:* Dylan Ible – 0476 666 295 (First Aid Trained)

*Environmental Site Representative:* Sul Ghani – 0499 182 768



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## **1 INTRODUCTION & SCOPE**

### **1.1 Introduction**

Costin Roe Consulting Pty Ltd has been commissioned by Burton Contractors Pty Ltd (Burton) to prepare this Flood Management Plan (FMP) for the industrial development located at Lots 52 & 53 at 884-928 Mamre Road, Kemps Creek, NSW (SSD 17647189), as an industrial warehouse distribution estate.

This *Flood Management Plan (FMP)* addresses the flooding present on the proposed development site and incorporates a *Flood Emergency Response Plan (FERP)* for the 884-928 Mamre Road, Kemps Creek Development.

This plan details the site responses to flooding including predicted flood levels, flood warnings and flood notifications, evacuation and refuge protocols and awareness training for employees and contractors.

The requirements outlined in this report are consistent with the provisions of the NSW Flood Risk Management Manual (2023).

The subject area of this FMP/FERP comprises emergency responses for the construction and operational phases of the development.

This report has been prepared to satisfy Condition B53 from SSD-17647189. Ensure this plan forms part of the CEMP and OEMP as required by Condition C2 and C5.

We confirm that the requirements specified under Condition B53 have been generally met, including but not limited to;

- Being prepared and reviewed by a suitably qualified and experienced engineer(s)
- Addresses the provisions of the Floodplan Risk management Guideline
- Includes details of:
  - Flood emergency responses during both construction and operation;
  - Predicted flood levels;
  - Flood warning time and flood notification;
  - Assembly points and evacuation routes;
  - Evacuation and refuge protocols; and
  - Awareness training for employees and contractors.

Ensure, per Condition B54, construction does not commence until the Flood Emergency Response Plan is approved by the Planning Secretary and ensure the most recent version of the FEMP approved by the Planning Secretary is implemented for the duration of the development.

## 1.2 Compliance Table

| CoC No. | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B42(d)  | <p>Within three months of the date of this consent, the Applicant must design the trunk drainage infrastructure on the site, to the satisfaction of the Planning Secretary. The trunk drainage infrastructure must:</p> <p>(d) be designed so that the naturalised trunk drainage channel is used to convey all overland flows up to the 1% AEP critical flow where the catchment area upstream of the commencement of the trunk drainage exceeds 15 ha or where overland flows are unsafe to pedestrians and vehicles, whichever occurs first. Flows up to the critical probably maximum flood (PMF) shall be considered to understand the failsafe position of the trunk drainage;</p> | <p>The Flood Emergency Response Plan discusses Flood Behaviour, Flood Safety &amp; Evacuation and the ultimate Flood Response for the site.</p> <p>The Stormwater Management System Design Report (SMSD) (Co14021.05-03b.rpt) discusses the relevant condition for this requirement, including the design of the naturalised trunk drainage.</p>                                                                                                        |
| B53     | <p>Prior to the commencement of construction, the Applicant must prepare a Flood Emergency Response Plan to the satisfaction of the Planning Secretary. The Plan must form part of the CEMP and OEMP required by Conditions C2 and C5 and must:</p> <p>(a) be prepared by a suitably qualified and experienced person(s) whose appointment has been endorsed by the Planning Secretary;</p>                                                                                                                                                                                                                                                                                              | <p>Refer to this flood management report for the flood emergency response plan.</p> <p>(a) The report was completed by Costin Roe Consulting who were appointed as experts by the department (letter dated 11/04/24)</p> <p>(b) Confirming the provisions of the Floodplain Risk Management Guidelines were addressed.</p> <p>(c) Confirm that the following items were addressed. Note report should also be read in conjunction with the specific</p> |

| <b>CoC No.</b> | <b>Item</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Response</b>                                                                                                                                                                                                                                                                              |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | <p>(b) address the provisions of the Floodplain Risk Management Guideline (OEH, 2007);</p> <p>(c) include details of:</p> <ul style="list-style-type: none"> <li>(i) the flood emergency responses for both construction and operation phases of the development;</li> <li>(ii) predicted flood levels;</li> <li>(iii) flood warning time and flood notification;</li> <li>(iv) assembly points and evacuation routes;</li> <li>(v) evacuation and refuge protocols; and</li> <li>(vi) awareness training for employees and contractors.</li> </ul> | <p>individual plans prepared by the builder and individual lots.</p>                                                                                                                                                                                                                         |
| <b>B54</b>     | <p>The Applicant must:</p> <p>(a) not commence construction until the Flood Emergency Response Plan required by condition B51 is approved by the Planning Secretary; and</p> <p>(b) implemented the most recent version of the Flood Emergency Response Plan approved by the Planning Secretary for the duration of the development</p>                                                                                                                                                                                                             | <p>Condition B54 has been addressed in <b>Section 1.1</b>.</p>                                                                                                                                                                                                                               |
| <b>B55</b>     | <p>All floor levels must be no lower than the 1% Annual Exceedance Probability flood plus 0.5 m of freeboard.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>This item has been confirmed within the Civil Engineering Report Incorporating Water Cycle Management Strategy SSD-17647189 (Co14021.00-07j.rpt).</p> <p>Condition B55 has been discussed within the Proposed Development Description (<b>Section 2.3</b>) to close out this comment.</p> |



| CoC No. | Item                                                                                                                                                                                                                                                  | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B56     | Any structures below the 1% Annual Exceedance Probability plus 0.5 m of freeboard must be constructed from flood compatible building components.                                                                                                      | This item has been confirmed within the Civil Engineering Report Incorporating Water Cycle Management Strategy SSD-17647189 (Co14021.00-07j.rpt).<br><br>Condition B56 has been discussed within the Proposed Development Description ( <b>Section 2.3</b> ) to close out this comment.                                                                                                                                                                                                                                                                                                           |
| C1 (a)  | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:<br><br>a) detailed baseline data;                                                                                                  | <b>Section 4.1</b> sets out known information on flood behaviour on site and within the surrounding area, as determined from a review of available literature.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|         | (b) details of:<br>(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);                                                                                                                            | <b>Section 3.3</b> and <b>3.4</b> set out relevant reference documents and General FMP/FERP requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C1 (b)  | (ii) any relevant limits or performance measures and criteria; and<br>(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; | <b>Section 3.5</b> Review and Improvement sets out processes for monitoring the effectiveness of the flood detention basin and flood emergency response management measures.<br><br><b>Section 4.1</b> discusses flood modelling conducted, with three scenarios modelled and included for reference in Appendix A of the FMP.<br><br><b>Section 4.2</b> sets out the post-development flood extent and Figures 4.4 and compare the pre-development flood extent with the modelled post-development flood extent (1% AEP flood levels and depths).<br><br><b>Section 5.3</b> sets out the process |

| <b>CoC No.</b> | <b>Item</b>                                                                                                                                                                                               | <b>Response</b>                                                                                                                                                                               |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                                                                                                                                                                                                           | to undertake a flood damage assessment.<br><br><b>Section 7.2</b> sets out flood response triggers and site-specific mitigation measures.                                                     |
| C1 (c)         | (c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                     | <b>Section 7.2</b> sets out flood response triggers and site-specific mitigation measures.                                                                                                    |
| C1 (d)         | d) a program to monitor and report on the:<br>(i) impacts and environmental performance of the development; and<br>(ii) effectiveness of the management measures set out pursuant to paragraph (c) above; | The flood damage assessment protocol is discussed within <b>Section 5.3</b> .<br><br>The contractor should develop a program to investigate and implement environmental performance measures. |
| C1 (e)         | 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;      | Contingency Plan noted in <b>Section 7.3</b> .                                                                                                                                                |
| C1 (f)         | (f) a program to investigate and implement ways to improve the environmental performance of the development over time;                                                                                    | The flood damage assessment protocol is discussed within <b>Section 5.3</b> .<br><br>The contractor should develop a program to investigate and implement environmental performance measures. |
| C1 (g)         | g) a protocol for managing and reporting any:<br>(i) incident and any non-compliance (specifically including any exceedance of                                                                            | The emergency flood response plan forms part of the CEMP. An additional paragraph has been added to the 'Subsequent to Inspection' Section within the                                         |

| CoC No. | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Response                                                                                                                                                                                                                                                             |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | the impact assessment criteria and performance criteria);<br>(ii) complaint;<br>(iii) failure to comply with statutory requirements; and                                                                                                                                                                                                                                                                                                                                                                                        | report.<br><br>Note - it is the responsibility of the contractor to manage and report any incidents in relation to flooding.                                                                                                                                         |
| C1 (h)  | (h) a protocol for periodic review of the plan.<br><br><i>Note: the Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans</i>                                                                                                                                                                                                                                                                                                                          | Periodic review of the operation of the flood emergency response management measures and plan has been noted within the Review and Improvement ( <b>Section 3.5</b> ).<br>"It is recommended that this FERP be reviewed every 3 to 5 years once operation commences. |
| C8      | Within three months of:<br>(a) the submission of a Compliance Report under condition C14;<br>(b) the submission of an incident report under condition C10;<br>(c) the approval of any modifications of the conditions of this consent; or<br>(d) the issues of a direction of the Planning Secretary under condition A2(b) which requires a review, the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing that a review is being carried out. | Condition C8 has been addressed in <b>Section 5.3</b> – review and improvement.                                                                                                                                                                                      |
| C9      | If necessary to either improve the environmental performance of the development, cater for a modification or comply with                                                                                                                                                                                                                                                                                                                                                                                                        | Condition C9 has been specifically referenced within the Review and Improvement ( <b>Section 3.5</b> ).                                                                                                                                                              |



| CoC No. | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Response |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|         | <p>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.</p> <p><i>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.</i></p> |          |

## 2 DEVELOPMENT SITE

### 2.1 Location

The proposed development is located in the suburb of Kemps Creek on Mamre Road on Lots 52 & 53 DP259135 as shown in **Figure 2.1** within the Penrith City Council Local Government Area (LGA) jurisdiction.



**Figure 2.1 Locality Plan**

The site is located on the eastern side of Mamre Road approximately 1.8km south of the intersection of Mamre Road and Bakers Lane, and 0.85km north of the intersection of Mamre Road and Abbotts Road. It comprises of two allotments zoned IN1 General Industrial, pursuant to the State Environmental Planning Policy 2021 (SEPP2021).

The site is irregular in shape with a total area of approximately of 20.25 Ha and bound by semi-rural farmland to the north, south and east.

It is noted that the land to the north of the site at 884-928 Mamre Road, Kemps Creek is proposed to be developed by Mirvac, and the land to the east by Frasers Property Australia. Consideration to this has been made in the assessment and design drawings.

## 2.2 Topography and Description

There are two catchments on the property which are separated by a spur which diagonally crosses the eastern third of the property. The spur varies in level from RL 66.5m AHD on the southern boundary to RL 65m AHD on the northern boundary.

Falls on the western side of the spur, generally fall to the south-west to the lowest part of the site which aligns with the western drainage discharge location. The existing drainage discharge location is an existing culvert (2x 600mm R.C.P.) beneath Mamre Road (at an invert level of 47.25m AHD).

East of the spur aligns with a gully and series of farm dams from the current rural use. Upstream of the site is an approximate 24Ha catchment, and overflows from the series of dams drain and overflow to the north. The existing dam has a level of approximately RL 56.2m AHD.

## 2.3 Proposed Development Description

The proposed development is for the subdivision and construction of a one storey warehouse facility at 884-928 Mamre Road, Kemps Creek NSW. The site is proposed to be subdivided into 4 development lots in Stage 1 and 11 development lots in Stage 2. The proposed building ground floor FFL is set at 54.80 located within Lot 2 of the proposed subdivision. A TfNSW road widening has been proposed along the western site boundary within Lot 3.

The proposed development will include the construction of a one storey warehouse with an undercroft carpark and associated ancillary office space, car parking areas, truck circulation and loading zones, fire brigade access and landscaping. A new access road is also proposed with access along the west site boundary.

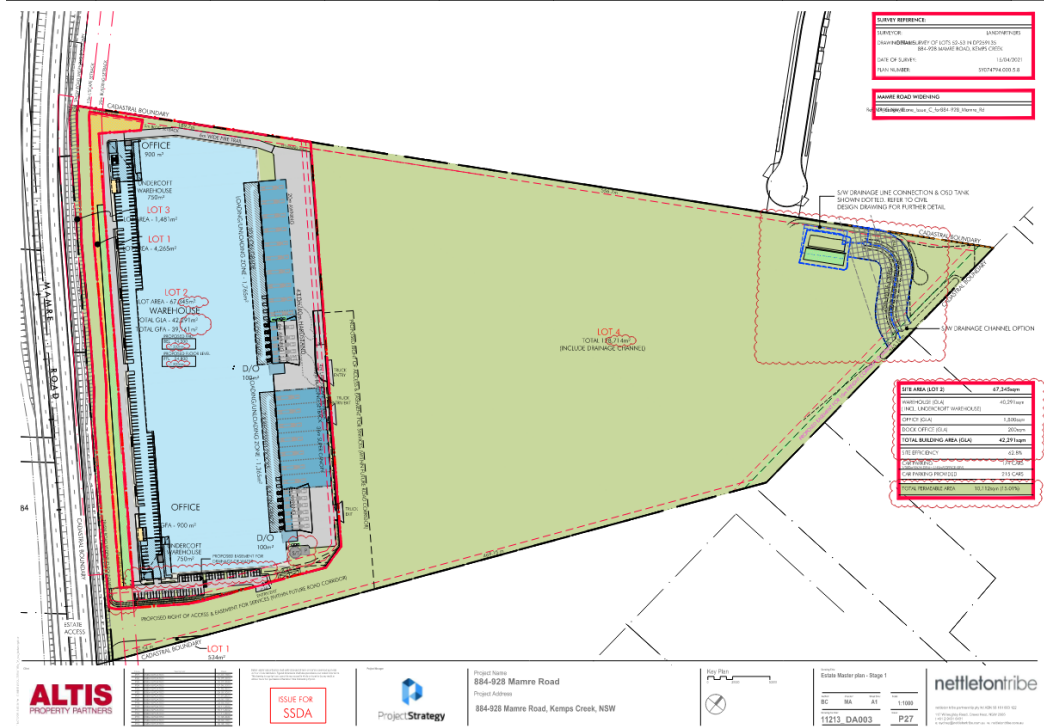
A drainage channel is proposed at the northeast corner of the site.

Reference to the site layout produced by Nettleton Tribe Architecture, in **Figure 2.2 & 2.3** below, should be made for the proposed development and access stages.

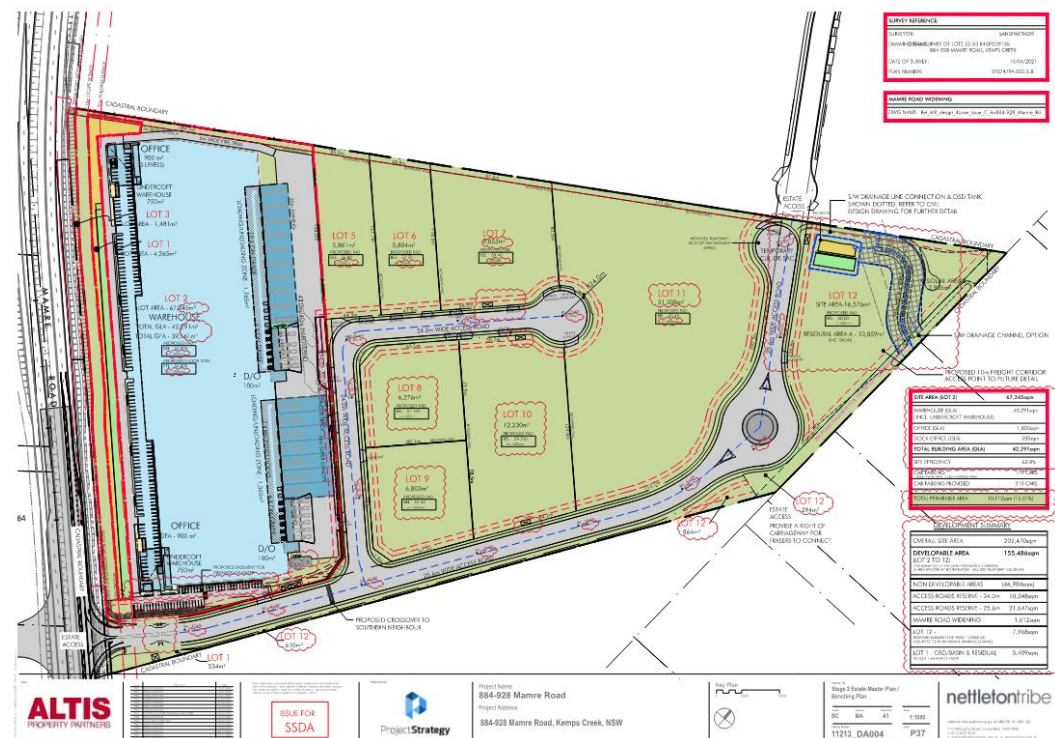
Per Condition B55 ensure that all floor levels are designed no lower than 1% AEP Flood plus 0.5m freeboard per council policy. We confirm the estate works will be undertaken to provide large flat building pads with the intent to keep the building levels above the 1% AEP flood level with a minimum freeboard of 500mm.

Per Condition B56 we confirm any structures below the 1% AEP plus 0.5m freeboard will be constructed from flood compatibility building components.





**Figure 2.2. Proposed Development - Stage 1 Estate Masterplan**



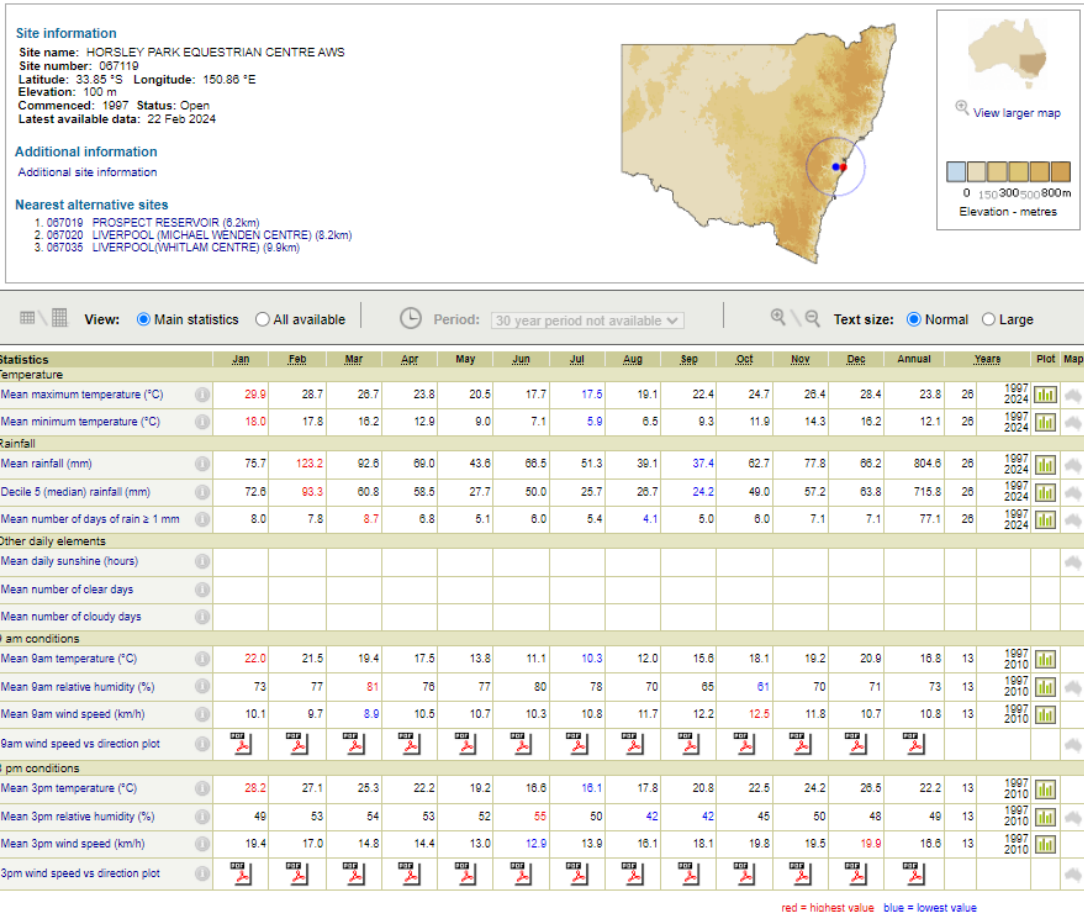
**Figure 2.3 Proposed Development - State 2 Estate Masterplan**

## 2.4 Climate and Meteorology

The closest weather station is located in Horsley Park. Horsely Park area experiences relatively mild temperatures and moderate rainfall with a mean annual rainfall of 805mm based on records from Horsely Park Equestrian Centre AWS (Station 067119 since 1997) which is approximately 6.5km east of the development site.

### Summary statistics HORSLEY PARK EQUESTRIAN CENTRE AWS

A summary of the major climate statistics recorded at this site is provided below. There is also an extended table with more statistics available. More [detailed data for individual sites](#) is available.



Product IDCJCM0028 Prepared at Thu 22 Feb 2024 05:11:22 AM AEDT

Typically, the wettest month (mean rainfall) is February and driest in September.

The annual mean minimum temperature is 12.1°C and mean maximum temperature is 23.8°C. The hottest month is usually January (mean maximum of 29.9°C) and coldest month is usually July (mean minimum of 5.9°C).

Climate statistics and average annual rainfall data and rainfall patterns relevant to this site (as sourced from Australian Bureau of Meteorology (BOM)) are included for reference in **Appendix B** of this **FMP**.

### 3 GENERAL REQUIREMENTS

#### 3.1 General Requirements Introduction

This FMP has been prepared with the purpose of providing an understanding of flood behaviour to the facility owners, management, and contractors during operation and construction of the development.

This document has been completed with consideration to the Flood Risk Management Manual (2023), the flood modelling completed by Costin Roe Consulting, and other reference documents noted in **Section 3.3**.

The following sections of this FMP provide confirmation of roles and responsibilities, statutory requirements, measures to monitor and report on impacts and performance of the measures implemented, contingency planning and protocols for review and improvement.

#### 3.2 Roles and Responsibilities

1. The builder during construction and the warehouse owners/management during operations are the key persons responsible for the implementation of this FMP and have the responsibility action measures if there is potential for a safety or environmental incident to occur.
2. The key roles and responsibilities for the responsible personnel in relation to flood risk management are outlined below in Table 3.1.

**Table 3.1 Roles and Responsibilities**

| Role                              | Project Stage           | Responsibilities                                                                                                                                                                                                                                               |
|-----------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Development Owners and Management | Operation               | Identify and allocate Project resources to implement the requirements of this plan.<br><br>Oversee the implementation and maintenance of this plan.<br><br>Ensure all measures are performing adequately throughout the operation of the centre in perpetuity. |
| Client / Project Manager          | Operation/ Construction | The client and/or project manager to oversee the builder and operations manager and to ensure compliance with the conditions of consent.                                                                                                                       |
| Construction Contractor's ESR     | Construction            | Ensure maintenance and monitoring of the flood management measures are undertaken in accordance with <b>Section 7</b> .<br><br>Provide for training in flood management for personnel directly involved with the implementation of this plan, as required.     |



| Role (Cont.)               | Project Stage | Responsibilities (Continued.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Contractors   | Construction  | <p>Ensure flood behaviour local to the development is understood.</p> <p>Ensure personnel are educated in the overall <b>FERP</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Construction ESR and CPESC | Construction  | <p>Ensure a review of the site is completed post flooding (and when safe to access the site) by the ER and CPSEC</p> <p>Post construction development owners to refer any concerns to Environment</p> <p><b>Emergency Contacts</b></p> <p><i>Project Manager:</i> Zacharia Youssef<br/>0499 233 203</p> <p><i>Site Supervisor:</i> Anthony Gobbo<br/>0437 997 572 (First Aid Trained)</p> <p><i>Safety Officer:</i> Laura Inglis<br/>0499 722 998 (First Aid Trained)</p> <p><i>Site Engineer:</i> Dylan Ible<br/>0476 666 295 (First Aid Trained)</p> <p><i>Environmental Site Representative:</i> Sul Ghani<br/>0499 182 768</p> <p><i>CPESC:</i> Bradley Cole<br/>0407 782 830</p> |

### 3.3 Reference Documents

Guidelines and Standards considered in relation to the preparation of the FEP include:

- NSW Flood Risk Management Manual (2023)
- SES (Nov 2019). Provision of and Requirements for Flood Warning

- Bureau of Meteorology 2013. Service Level Specification for Flood Forecasting and Warning Services for New South Wales – Version 2.0

### 3.4 General FMP/FERP Requirements

1. This document and associated drawings are subject to further periodic review throughout the operational period to ensure the requirements and measures set out in this FMP/FERP are fit for purpose and allow for any changes which might occur not envisaged during the initial preparation of the FMP/FERP.
2. All flood management and response measures will conform to the standards and information contained in:
  - (i) This **FMP/FERP**;
  - (ii) Conditions of Consent;
  - (iii) Costin Roe Flood Modelling, *Oct 2020*
  - (iv) Mamre Road Precinct Development Control Plan – **Section 2.5** Flood Prone Land
  - (v) Penrith Overland Flow “Overview Study” – Flood Analysis for Central Urban (Zone 1), Northern Rural (Zone 2), Southern Rural (Zone 3) (Cardno, August 2006).
  - (vi) The latest version of SES flood emergency response plans;
  - (vii) The latest version Penrith City Council’s Local Emergency Management Plan.

### 3.5 Review and Improvement

During operation, effectiveness of the flood detention basin & flood emergency response management measures will be confirmed through regular review of the FERP. It is recommended that this FERP be reviewed every 3 to 5 years once operations commence. Further additional reviews are to be undertaken following major flood event to confirm real life conditions against baseline conditions and make any necessary adjustments.

Adjustments as required will be made based on confirmed site conditions and effectiveness of the implemented measures. These will need to be made in conjunction with a suitably qualified engineer, or other professional, who specialises in stormwater management and flood management.

A copy of the updated plan and changes will be distributed to all relevant stakeholders in accordance with the approved document control procedure and Condition C9 of this consent. Construction will be undertaken in accordance with the most recent, approved version of this FMP/FERP.

## 4 FLOOD BEHAVIOUR

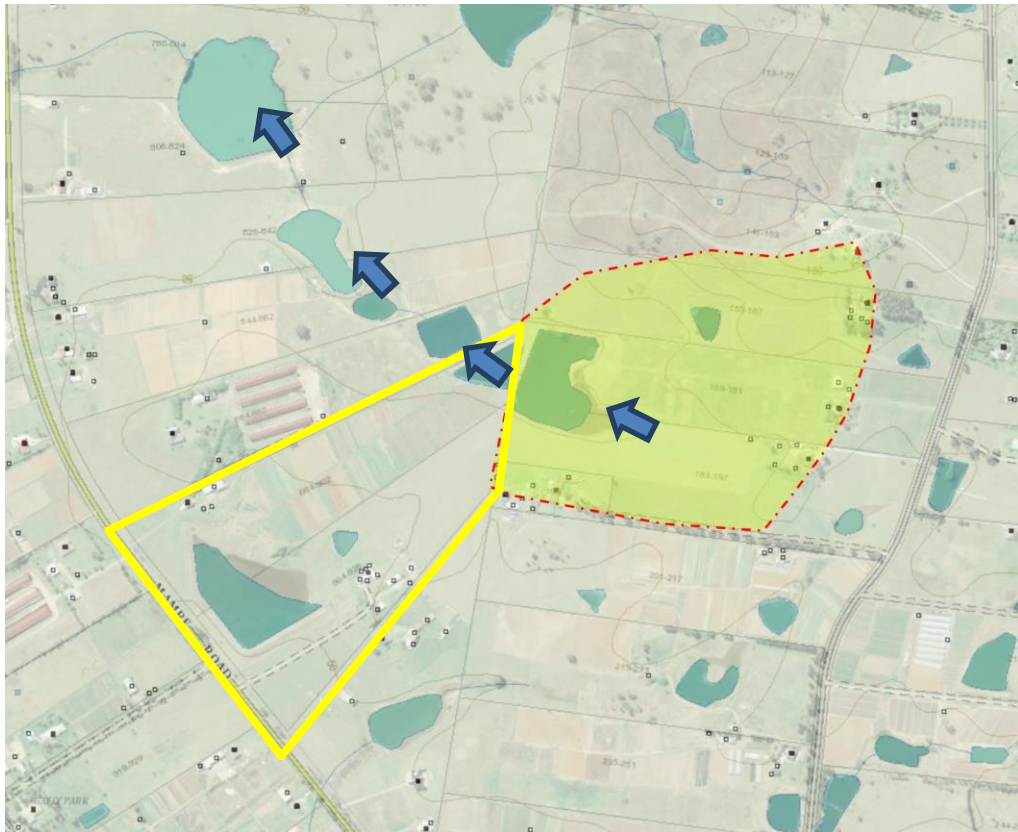
### 4.1 Flood Behaviour Introduction

The site is located approximately 2.3 km east of South Creek. The site is affected by overland flow and flooding associated with the existing gully and series of farm dams on the north-east of the property.

We note that the site is clear of the South Creek Floodplain however the site contributes to one of the sub-catchments of South Creek and ultimately runoff from the property drains to South Creek.

The contributing upstream catchment is approximately 24Ha and is shown below in **Figure 4.1**.

The catchment comprises rural land use and >90% pervious surfaces. Future development is noted to require detention and as such has been modelled as per existing impervious surface breakdown.

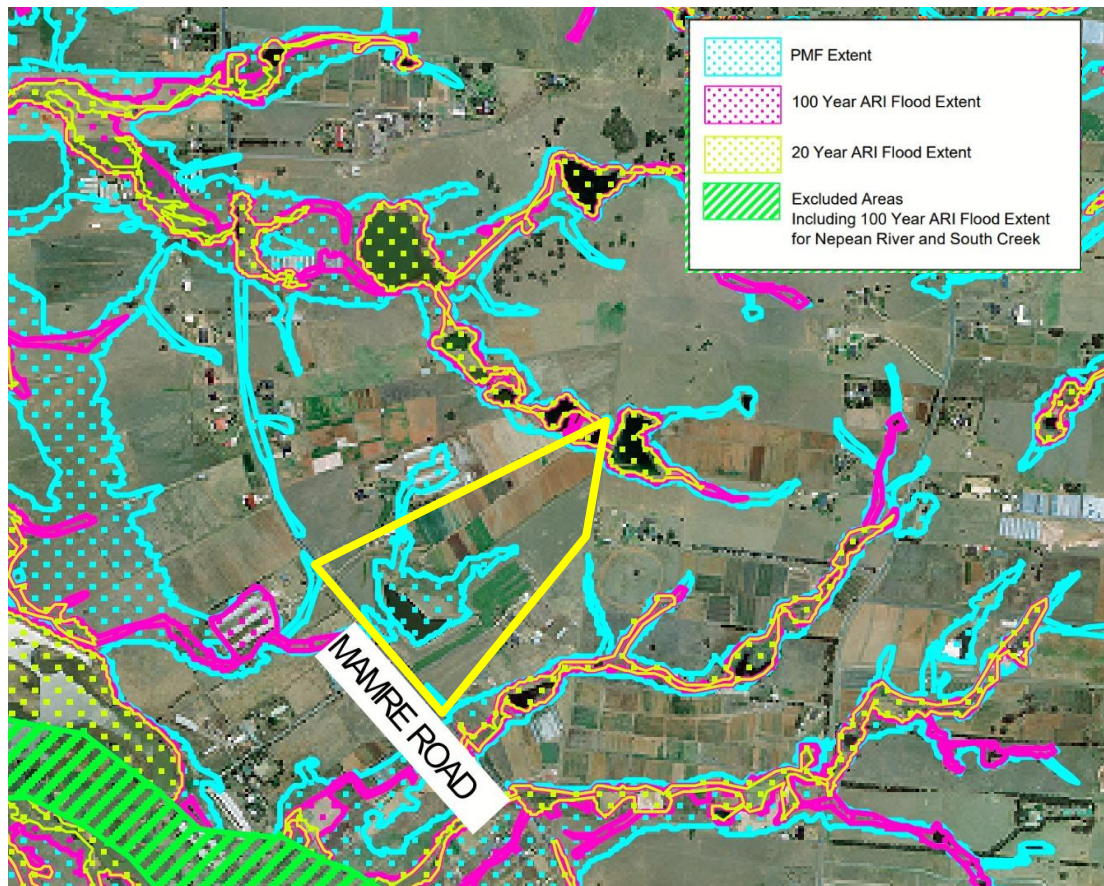


**Figure 4.1. Contributing Catchment**

Penrith Council is noted to have undertaken a regional assessment of local tributaries Penrith Overland Flow “*Overview Study – Flood Analysis for Central Urban (Zone 1), Northern Rural (Zone 2), Southern Rural (Zone 3)*” – Cardno 2006. The site is located within the Southern Rural (Zone 3) and an excerpt of the flood model output is shown in **Figure 4.2**. Council’s assessment shows overland flow is present along the series of farm dams in the north-eastern corner of the property. The modelling shows the flood extent to be limited to the gully and dams only, and not extending to areas away from the local watercourse. The area shown on the southern portion of the site as being



flood affected in the PMF event is noted to comprise a farm dam only which is fully within the proposed development extent and as such has not been included in the current overland flow assessment.



**Figure 4.2. Excerpt of Figure 6.1k of Cardno 2006 Study**

An overland flow and flood assessment has been completed by Costin Roe Consulting in relation to the north-eastern flow path in accordance with **Section 2.5** of the Mamre Road Precinct Development Control Plan (2021). Three scenarios have been modelled and are included for reference in **Appendix A** of this **FMP**:

- 5%, 1%, 0.5%, 0.2% AEP and Probable Maximum Flood Afflux Plan
- 5%, 1%, 0.5%, 0.2% AEP and Probable Maximum Flood Depths – Pre-development
- 5%, 1%, 0.5%, 0.2% AEP and Probable Maximum Flood Depths – Post-development

Reference should be made to **Section 2.4** which discusses climate and rainfall. We note that the wettest month is noted to be in February however we note that the meteorological condition in which overland flow through the upstream catchment could be expected when either an East Coast Low, or similar low-pressure conditions are present. These conditions are more predominate during February through June, however occurrences outside of these months could also be expected.

## 4.2 Flood Extent

Costin Roe Consulting carried out flooding assessment for the 1% AEP overland flow in addition to the full range of flooding as required by **Section 2.5** of Mamre Road Precinct DCP 2021.

The post-development flood extent (shown in figures 4.3 and 4.4) and level for the 1% AEP storm event, presented at the peak flow, can be seen to be around RL 55.10mAHD at the northeastern corner of the development within the site boundary and RL 61.29mAHD at the farm dam on the adjacent property north-east of the site.

Reference to **Figure 4.3** through **Figure 4.5** below should be made for the pre- and post- development flood extent and levels for the 1% AEP, as modelled by Costin Roe Consulting.

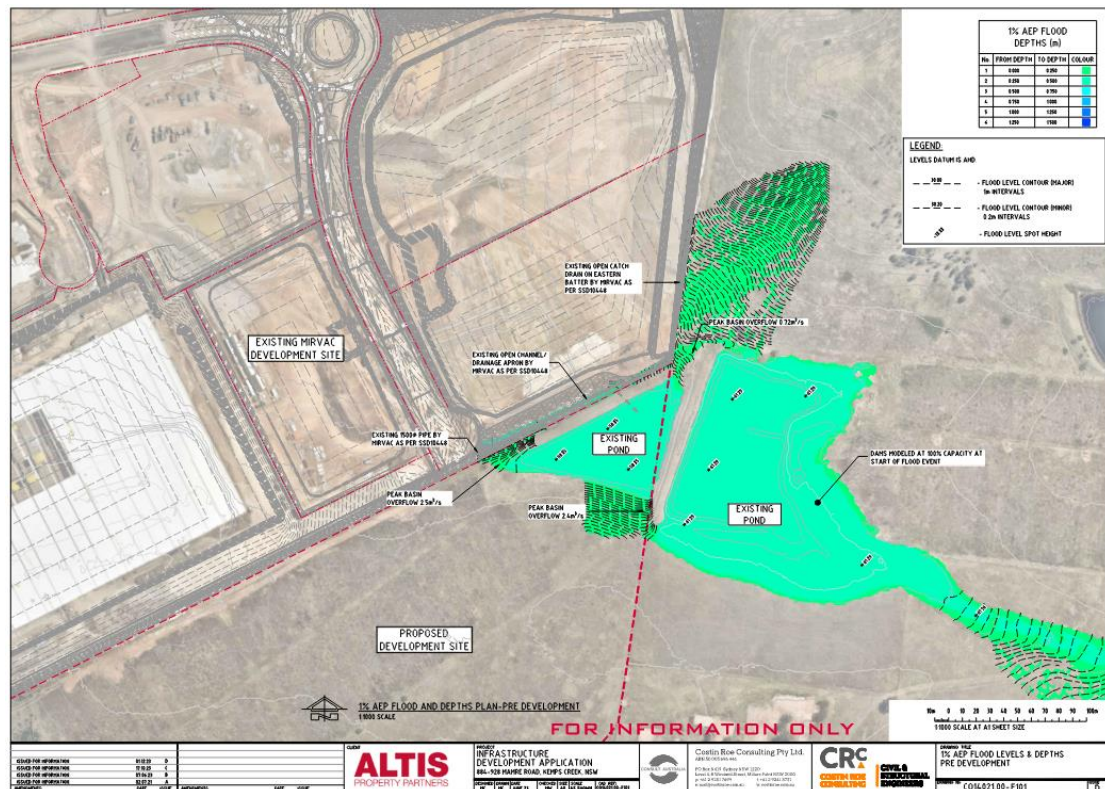


Figure 4.3 – 1% AEP Flood Levels & Depths – Pre-development



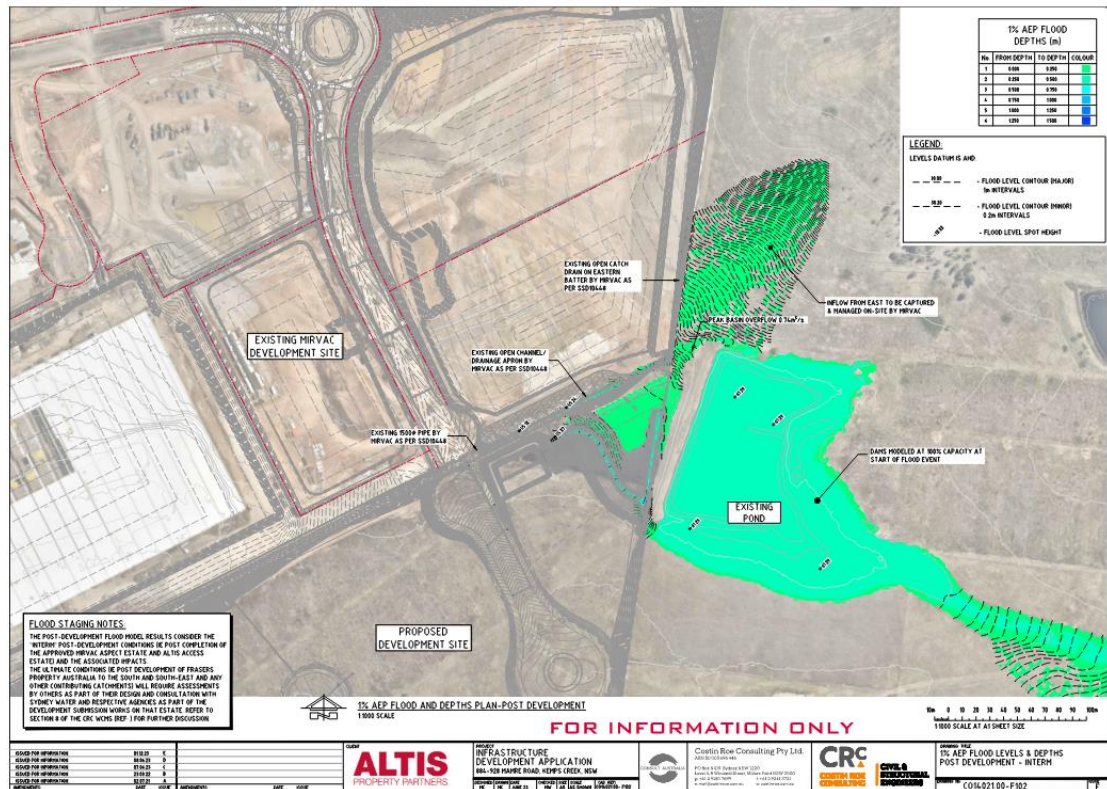


Figure 4.4 – 1% AEP Flood Levels & Depths – Post-development

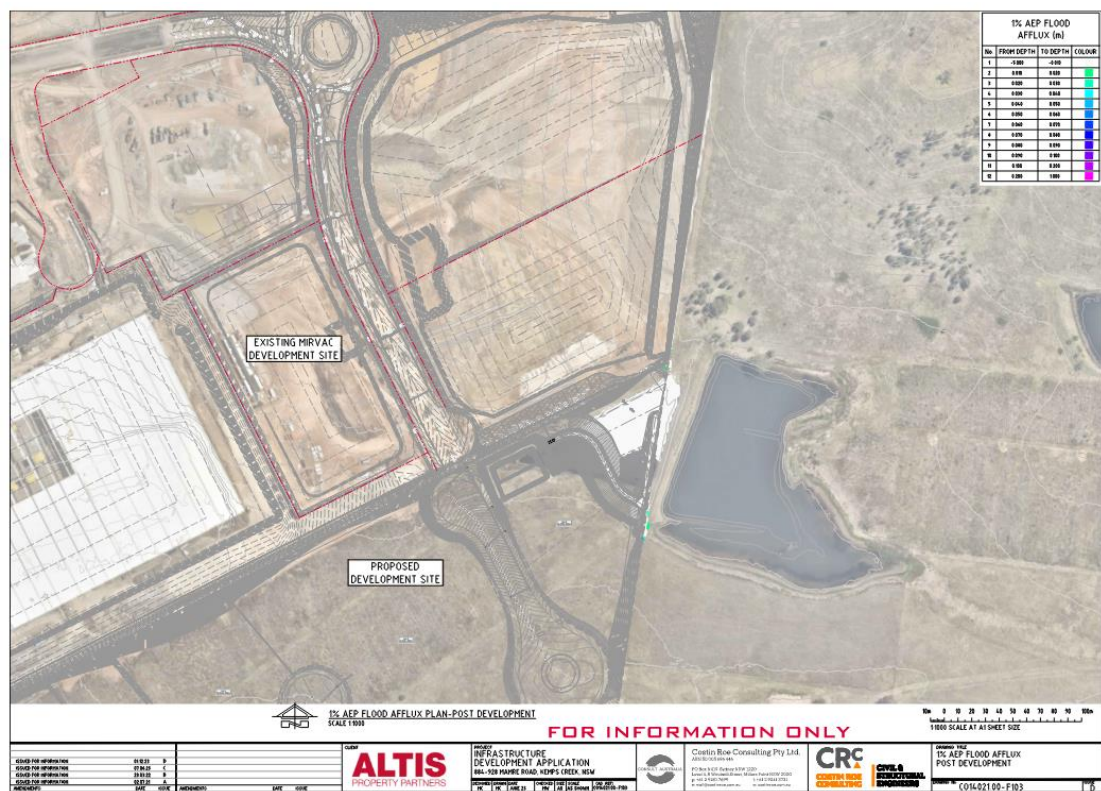


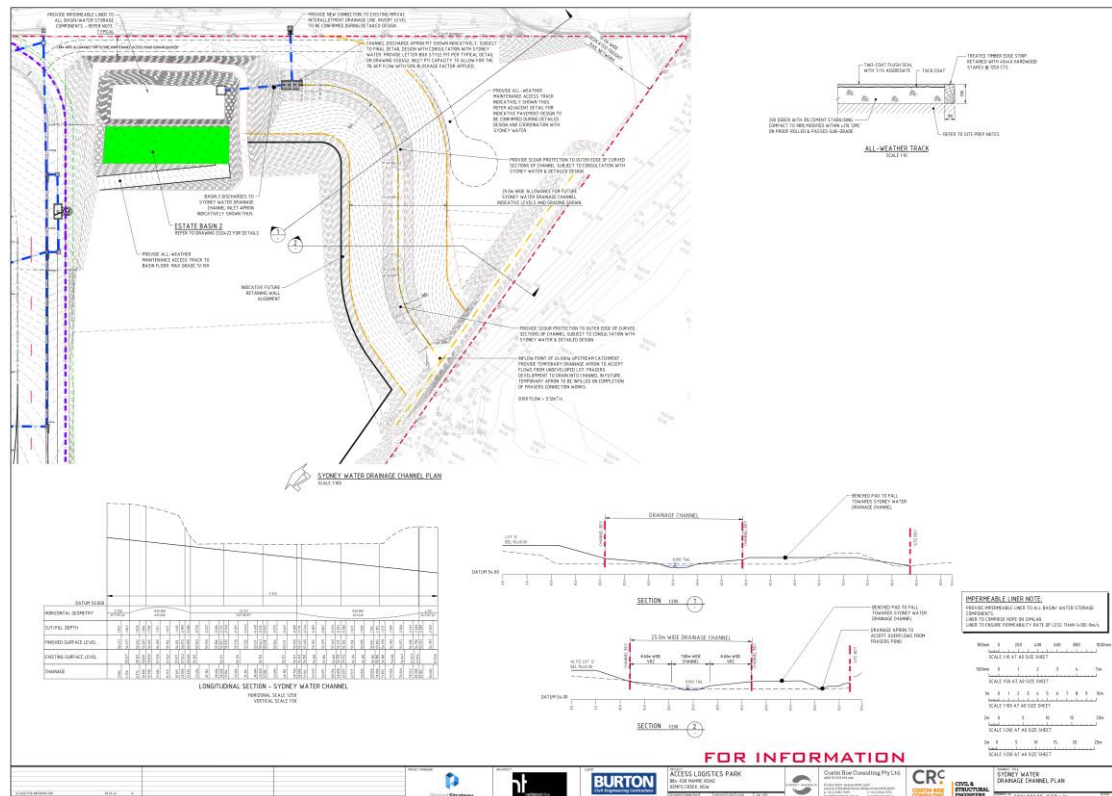
Figure 4.5 – 1% AEP Flood Afflux Plan



### 4.3 Flood Behaviour Summary

A TUFLOW hydrodynamic flood model has been completed and the pre and post development flood events assessed for flooding as a result of a 1% AEP rainfall event within the catchment.

The assessment of the 1% AEP event confirms that conveyance paths are available to the South-East side of the proposed estate development. An open drainage channel has been proposed at the southeast corner of the development surrounding the existing farm dam as shown in **Figure 4.6** below. There is negligible effect on flood water local to the development. The TUFLOW Modelling completed by Costin Roe Consulting confirms there is no affectation of upstream, downstream or adjoining properties.



**Figure 4.6 – Proposed Drainage Channel**

The adopted flood planning level is based on a minimum floor level of 1% AEP flood level plus 0.5m of freeboard. For this site the proposed development requires a minimum FPL of RL 61.79m AHD based on the 1% AEP level of 61.29 of the existing dam on the adjacent property.

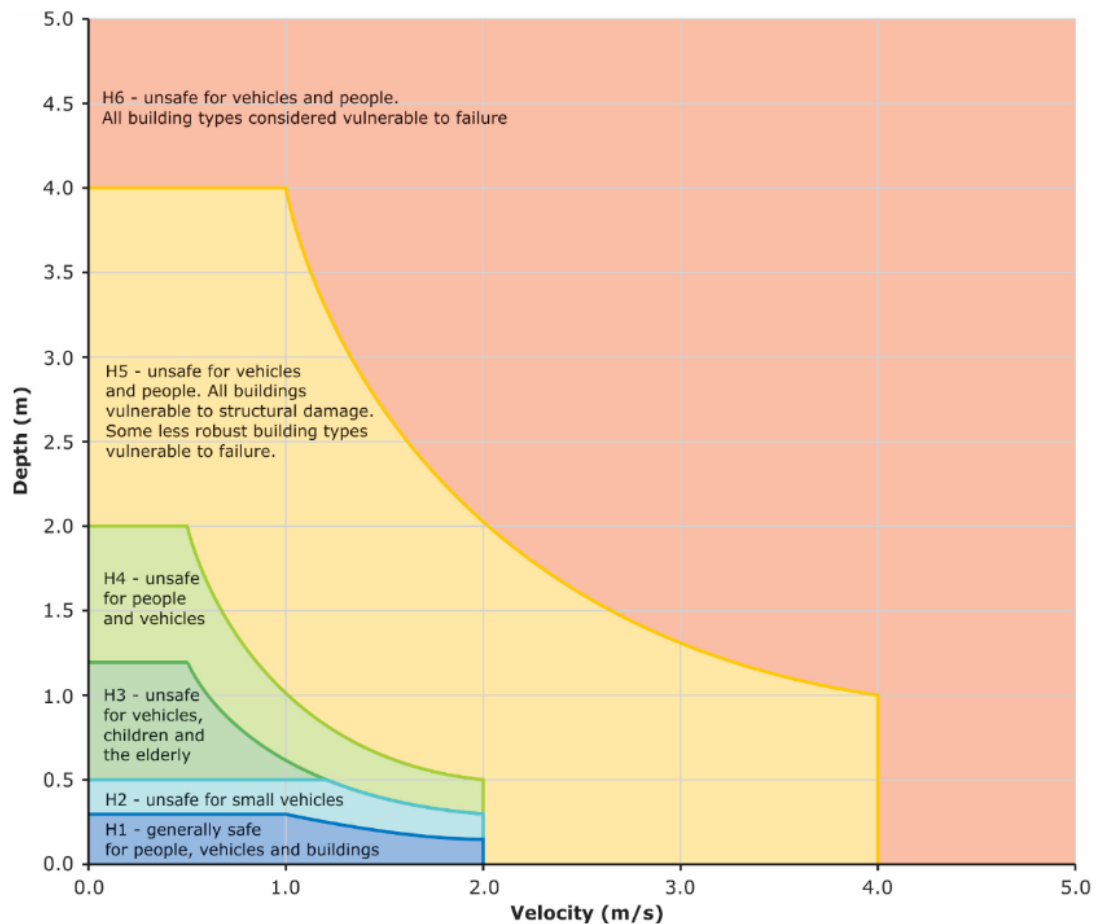
## 5 HAZARD CATEGORIES & MAPPING

### 5.1 Introduction

Flood hazard categories are broken down into high and low hazard (H1 to H6) categories depending on depth and velocity, and their interaction with each other as set out in Figures 5.1a and 5.1b) for each hydraulic category. High hazard areas are defined as those where there is a possible danger to personal safety and the potential for significant structural damage. Able-bodied adults would have difficulty in wading to safety. With low hazard areas, should it be necessary, a truck could evacuate people and their possessions, and able-bodied adults would have little difficulty in wading to safety.

Flood hazard criteria and mapping has been completed for the 1% AEP and PMF post development conditions as per criteria set out in the Australian Rainfall and Runoff (2019), A Guide to Flood Estimation – Book 6 – Flood Hydraulics and Figure 6.7.9 as included as **Figure 5.1a** below.

Refer **Section 5.2** for hazard mapping.



**Figure 5.1a – Provisional Flood Hazard Chart (AR&R 2019)**

Table 6.7.3. Combined Hazard Curves - Vulnerability Thresholds (Smith et al., 2014)

| Hazard Vulnerability Classification | Description                                                                                                                   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| H1                                  | Generally safe for vehicles, people and buildings.                                                                            |
| H2                                  | Unsafe for small vehicles.                                                                                                    |
| H3                                  | Unsafe for vehicles, children and the elderly.                                                                                |
| H4                                  | Unsafe for vehicles and people.                                                                                               |
| H5                                  | Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust buildings subject to failure. |
| H6                                  | Unsafe for vehicles and people. All building types considered vulnerable to failure.                                          |

Table 6.7.4. Combined Hazard Curves - Vulnerability Thresholds Classification Limits (Smith et al., 2014)

| Hazard Vulnerability Classification | Classification Limit (D and V in combination) | Limiting Still Water Depth (D) | Limiting Velocity (V) |
|-------------------------------------|-----------------------------------------------|--------------------------------|-----------------------|
| H1                                  | $D \cdot V \leq 0.3$                          | 0.3                            | 2.0                   |
| H2                                  | $D \cdot V \leq 0.6$                          | 0.5                            | 2.0                   |
| H3                                  | $D \cdot V \leq 0.6$                          | 1.2                            | 2.0                   |
| H4                                  | $D \cdot V \leq 1.0$                          | 2.0                            | 2.0                   |
| H5                                  | $D \cdot V \leq 4.0$                          | 4.0                            | 4.0                   |
| H6                                  | $D \cdot V > 4.0$                             | -                              | -                     |

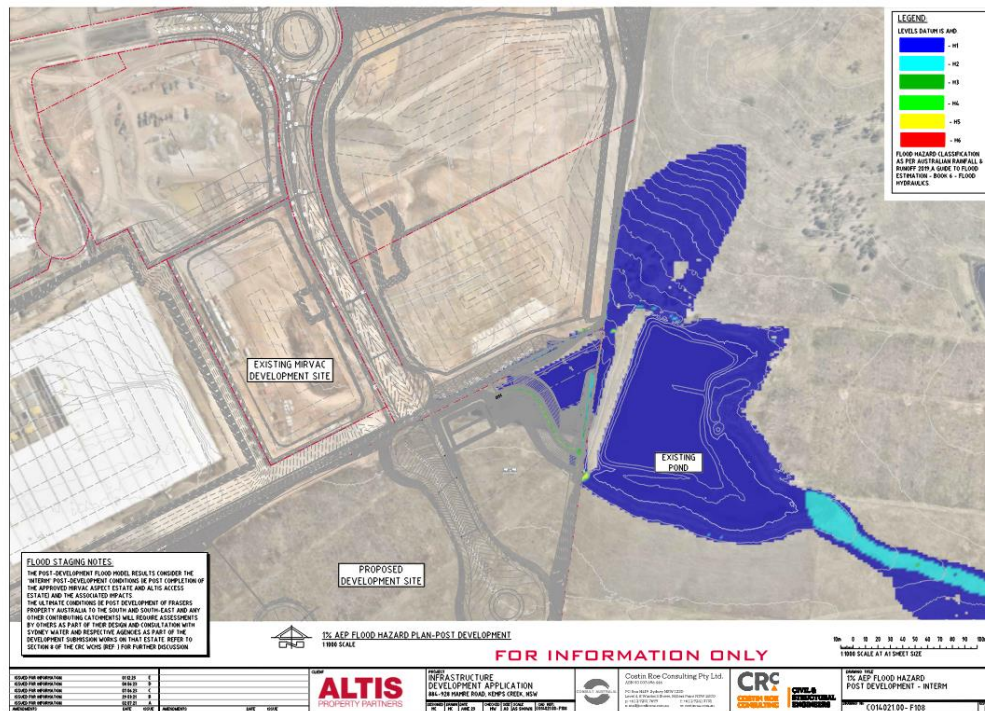
**Figure 5.1b – Adopted Hazard Criteria (AR&R 2019)**

## 5.2 Hazard Mapping

Flood hazard criteria and mapping has been included in Figure 5.2 below. The operation portion of the site (hardstand, carpark, warehouse FFL) is set at RL 54.80m AHD and outside of the overland flood extent as shown in the flood modelling completed by Costin Roe Consulting. An open drainage channel and OSD tank has been proposed on the southeastern corner of the site where the 1% AEP flood extent occurs.

The overland flow area is noted to have a hazard categorization ranging between H1 & H5.





### Figure 5.2 – Post Development Flood Hazard Map

### 5.3 Flood Damage Assessment

Damage caused by floods is generally categorised as either tangible or intangible. Tangible damages are financial in nature and can be readily measured in monetary terms. They include direct damages such as damage or loss caused by floodwaters wetting goods and property, and indirect damages such as lost wages incurred during cleanup periods after the flood event. Intangible damage includes emotional stress and even mental and physical illness caused by the flood. It is difficult, if not impossible to quantify intangible damages in financial terms.

From a flood planning perspective, it is important to consider the following direct damage categories:

- Contents Damage – refers to damage to the contents of buildings, including carpets and furniture etc.;
- Structural Damage – refers to damage to the structural fabric of buildings, such as foundations, walls floors, windows, and built-in fittings; and
- External Damage – includes damage to all items external to buildings, including cars, landscaping etc.

The NSW Flood Damage Assessment Tool available on the NSW SES Flood Data Portal (NSW Flood damage assessment tool - Datasets - NSW Flood Data Portal) can be utilised to calculate damages associated with flooding and facilitate cost benefit assessments of potential floodplain risk management measures on the development site.

The tool should be used in conjunction with the Flood Risk Management - Management Measures guideline (MM01) associated with the Flood Risk Management Manual (DPE, 2023).

Additionally, to the completion of the Flood Damage Assessment tool prior to operation of the facility, routine and triggered (by heavy rainfalls) inspections need to be completed and recorded during construction and during operation of the facility, as discussed below.

## **Routine- and Triggered Inspections**

### **Routine Inspections**

It would be recommended that routine inspections of the infrastructure and structures located within the dedicated overland flow area is carried out after significant storm events. Compiling and implementing a comprehensive Flood Damage Inspection process and procedure is essential to safeguard the longevity of structures, ensure the safety of occupants, and protect the individuals performing the flood damage assessment.

These routine inspections are to assess the need for maintenance and are primarily concerned with checking the condition of the suspended structure and the functionality of the stormwater drainage and treatment facilities; items such as columns, footings, retaining walls, drains, drainage pits, box culverts, culverts and headwalls. Maintenance of these items is vitally important for the integrity of the suspended structure and the ongoing drainage and treatment of stormwater.

Should the inspection reveal that maintenance of any item is required, this is to be reported to the construction supervisor for action.

### **Inspection Frequency**

Routine Inspections for Maintenance shall be carried out over the construction period.

The inspections shall occur on a monthly frequency during the construction period and shall continue on a yearly basis in perpetuity.

In addition to the normal inspection frequency nominated inspections should also be carried out following heavy rain events (triggered inspections). Event heavy rain inspections should be carried out as soon as practicable following an intense period of rainfall (i.e. greater than 100mm over 24 hours, as measured at Park Equestrian Centre AWS Station 067119). A process to establish when periods of high rainfall occur should be put in place with construction supervisor.

### **Records**

Records detailing each of the routine inspections for maintenance should be completed during the inspection, and describe in detail any required maintenance. The inspection records are to be provided to construction supervisor for action and then filed appropriately. Records of any maintenance

carried out as a result of the inspection should be completed immediately after the works have been finalised, and filed appropriately.

### Personnel

Routine inspections for maintenance are required to establish the need for basic maintenance, as described above. On this basis, such inspections do not require professional engineering knowledge and may be carried out by any responsible person, including Site Engineer or construction supervisor. It is, however, recommended that a structural engineer conduct the investigation of the conditions of the structures after a heavy rainfall event (i.e. greater than 100mm over 24 hours, as measured at Park Equestrian Centre AWS Station 067119).

Alternatively, professional engineering staff may be employed to complete the routine inspections for maintenance concurrently with the engineering inspections for maintenance.

All employees, contractors and utility staff arriving and working on site will undergo site induction training relating to the Flood Management Plan. This induction training addresses elements related to FMP including:

- Primary Site Access Routes (As shown the CTMP\_Rev09 dated 04/06/2024)
- Roles and Responsibilities
- Hazard Identification
- Emergency Response Process and Evacuation point/s

During construction, this information will also be incorporated into Safety Notifications and Toolbox/Prestart talks consistently throughout the course of the project.

The professional personnel with engineering knowledge are to notify any and escalate any issues to the Environmental Representative and Professional Engineer (Structural and Civil) and CPESC (during construction) for specific review.

## **Inspection Safety**

### General

As described earlier in this document, regular inspections and maintenance of structures and drains are essential for their ongoing stability. However, carrying out inspections and maintenance activities will place those personnel involved with the inspections and maintenance at varying levels of risk. Therefore, to reduce the risk, certain minimum procedures and activities must be carried out before, during and after the inspections.



### Inspections/ Maintenance

In order to reduce the risk, any inspections or maintenance activities should be carried out under the following protocols:

- Inspections/Maintenance teams must comprise a minimum of two, preferably three people, in order to prevent inspection personnel working alone;
- Inspections/Maintenance must be carried out within 48 hours of a rain event, preferably within 24 hours;
- Personnel completing inspections/maintenance must be able to communicate and be contactable, e.g. by carrying mobile phones or UHF radios; and
- For entry to confined spaces, the Contractor should establish if relevant training is required to enter these spaces, as well as provision of appropriate equipment to carry out the inspections.

### Prior to Inspection/Maintenance

It is the responsibility of the Construction Supervisor to appoint the appropriate personnel to carry out the inspections and maintenance, and to nominate appropriate times for the inspections to occur, according to the frequencies recommended above.

Prior to any inspection/maintenance commencing, the Construction Supervisor or representative shall:

1. Review and sign off an Inspection/Maintenance Safety Plan provided by the personnel completing the inspection or carrying out the maintenance. Sufficient time should be allowed to review the plan, request changes/alterations, and approve the updated document.

The Inspection/Maintenance Safety Plan must include:

- a) A list of personnel and backup personnel completing the inspections/maintenance, along with their qualifications and experience. The qualifications should include a list of tertiary education (if applicable), “green card” status or equivalent (e.g. Occupational Health and Safety Induction Training for Construction Work – General Course), and any required licences such as drivers licence/Bobcat operators licence;
- b) A list of the items and areas to be inspected/maintained;
- c) The procedures to be undertaken during the inspections/maintenance;
- d) The methodology proposed to complete the inspections/maintenance;
- e) A Job Safety Analysis (JSA)/Health and Safety Plan (HASP), or equivalent, that documents the following:
  - i. Each Inspection/Maintenance Activity and associated Hazard.
  - ii. An initial risk assessment;
  - iii. Control measures to be implemented to reduce unacceptable risks; and

- iv. A second risk assessment that re-assesses the risk considering the control measures suggested for implementation in Point “iii” above.
  - f) Details of evacuation procedures and muster points in the event of an emergency;
  - g) A list of safety equipment to be taken, including a radio, first aid kit; and
  - h) Where appropriate ablutions and wash facilities are located.
- 2. Ensure the inspection and maintenance personnel entering the site have filled in a dedicated Sign In/Sign Out register. This register can be located at the Construction Supervisor office. Location to be confirmed to all parties involved. The register should also record which personnel have custody of any keys that provide access through locked gates/barricades. Any keys should be signed back in at the end of each days work; and
  - 3. Be present during a Tool Box talk that summarises the JSA/HASP, highlighting the main hazards and risks. If Construction Supervisor is aware of any hazards and risks not mentioned in the JSA/HASP, they are to be raised during the Tool Box Talk and the JSA/HASP amended accordingly.

Following the completion of these activities, the Inspections and or Maintenance may commence.

#### During Inspections/ Maintenance

During the inspection and maintenance activities, it is the responsibility of those personnel carrying out the works to ensure that the requirements of the Inspection/Maintenance Safety Plan are adhered to. Safety whilst completing the inspections/maintenance is as important as the functionality of the drains themselves.

During the inspection it is important to inspect the environmental impact of the flooding and flag any items of concern to the Environmental Representative.

During construction it is important to notify any erosion and sediment control deviations to the CPESC and ER.

Whilst working within the drain pits, overland flow area or through intermediate access points, the inspection and maintenance work teams shall:

- Complete visual inspections of the drain and pits for signs of shifting and or damage;
- Check for accumulations of scale or sedimentation within the pipes/drains;
- Be vigilant with regard to loose items that could fall from the suspended slabs above;
- Be vigilant with regard to rock falls from the batters;
- Work in minimum groups of two people, preferably three;
- Perform inspections during period of forecast dry weather;
- Ensure that sufficient PPE is worn and utilised. As a minimum (subject to the maintenance activity), the following PPE is required:

- i. High Visibility Safety Vest;
- ii. Steel Capped Boots;
- iii. Helmet; iv. Safety glasses;
- iv. Mobile Phone/UHF Radio (or other means of telecommunication);
- v. First Aid Kit; and
- vi. Long pants and long sleeve shirts.

#### Subsequent to Inspection

At the completion of each days work, all members of the inspection/maintenance parties must complete the Sign In/Sign Out register to note that they have left the site. Any keys issued to provide access through locked gates/barricades must be returned and signed for.

The completed Inspection/Maintenance Records must be handed over to the Construction Supervisor for actioning. If a report needs to be furnished, it must be finalised and submitted within 2 weeks of inspection/maintenance works being completed.

The contractor should develop a program to manage and report any incidents in relation to flooding. Any flood-related incidents, non-compliances, complaints and failure to comply with statutory requirements should be flagged to the Construction Supervisor and escalated per the CEMP protocols.

The completed inspection and maintenance records must be available to the Client, ER and CPESC upon request. Any inspections and maintenance records which raise concerns are to be flagged to the Client, Environmental Representative, Civil Engineer and CPSEC (during construction only).

#### Contingency Planning

In the event unexpected finds are made the matter should be flagged to the relevant professionals. During construction the Civil Engineer, Environmental Representative and CPSEC should be notified.

#### Incident Classification and Notification

It is the responsibility of all site personnel to report all environmental incidents to the Site Supervisor and/or the Contractor's ESR.

Incident response requirements including classifications, responses, external notification, and incident review protocol framework are set out in Section 5. Refer any concerns to the Civil Engineer, Environmental Representative and CPSEC should be notified

#### Environmental Auditing and Reporting

Auditing and reporting will be undertaken in accordance with the CEMP. Refer to the CEMP for details.



### Non-compliance, Non-conformance, and Actions

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

Non-compliances, non-conformances and corrective and preventative actions should be flagged the Civil Engineer, Environmental Representative and CPSEC should be notified.

### Review and Improvement

The effectiveness of the environmental control measures will be confirmed through regular CPSEC inspections, ongoing site inspections by the Construction Contractor, general inspections by the civil engineer, CPSEC and the ER. Adjustments as required during the construction period will be made based on the confirmed site conditions and during operation any improvements should be flagged to site management for discussion. Per Condition C8 any changes to the flood management plan is to be notified to the Planning Secretary in writing.

## **6 FLOOD SAFETY AND EVACUATION**

### **6.1 Introduction**

This section of the report presents the relevant information in relation to egress and evacuation during the approach of a significant flood event. The information in this report can be used as a framework for the overall precinct and for more detailed emergency response plans for individual tenants.

This framework has been completed with consideration to the State Emergency and Rescue Management Act 1989 (NSW), the State Emergency Service Act 1989 (NSW), and the SES Penrith City Local Flood Emergency Sub Plan.

The section below can be used as a framework for both the construction and operation stage of the project.

### **6.2 Flood Extent**

The flood behaviour, including flood levels and extents (refer **Figure 4.4** and **Figure 4.5**), during the 1% AEP storm events are included in **Section 4** of this plan.

As discussed in earlier sections of the report, the operational parts of the site are designed outside the overland flow path from the catchment east and drainage system of the proposed development and above the drainage system. Further discussion on effective warning measures and triggers are included in the following sections.

### **6.3 Preparedness**

#### Development of Warning Systems

Each tenant should have a tenant specific plan which sets out flood warden, evacuation zones and responsible persons. As noted, the advice in this report can be used as a framework for these site-specific plans, in conjunction with Council and SES sub plans as required. During construction, the site should have a responsible person (ESR or site supervisor) who understands the flood behaviour of this area, is familiar with this report and flood management responses set out in the FERP.

The NSW SES Local Incident Controller is responsible for monitoring the flood risk over the area and for issuing flood warnings to the community. Any person or group occupying the precinct at the time of flood danger should adhere to any warnings issued. The warning message will normally be issued via SMS (phone text) by the SES, and flood alerts would also be provided by the BOM prior to SES flood warning. During periods of heavy or forecast heavy rainfall it is important that one or some of the occupants of a facility should be able to receive such messages. The occupants must then immediately follow the flood evacuation plan in this report or the instructions of the SES controller in the area.

As described in **Section 6.5** below, the SES Warning System is based on predicted rainfall and gauges in the Sydney Airport region. This includes identification of

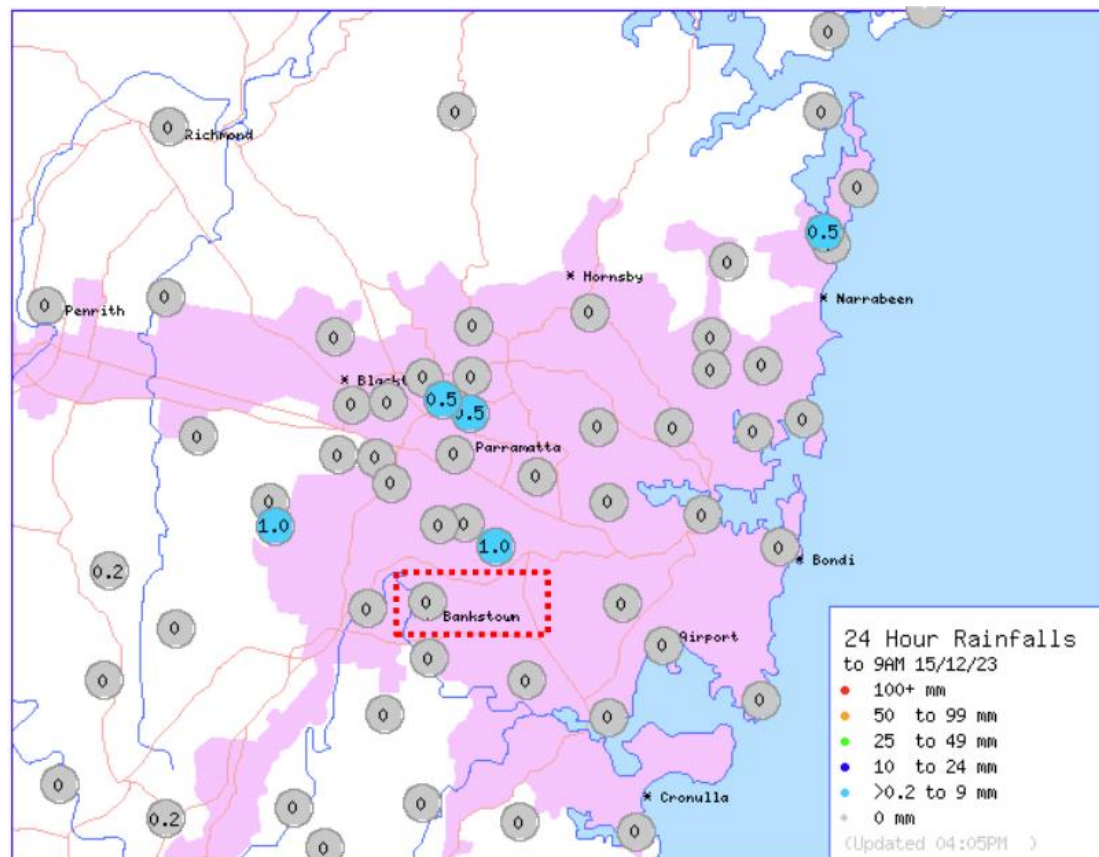
potential flooding areas, estimated impacts of flooding at different heights and action time.

The BOM/SES warning system will provide good initial guidance for triggering of flood measures, however in addition to the SES flood warning system, it is recommended that a site-specific warning system is employed to supplement the BOM gauges. Such a warning system could consist of a series of flood depth markers or responders placed within the flood conveyance zone and around the proposed development area. A suitable response/trigger methodology has been outlined in **Section 6.5** which can be utilised to inform users of the site to prepare their own site-specific flood management response plans.

Flood warning and emergency response for the development site will be based on the rainfall within the adjoining catchments.

Real-time data (updated at 15-minute intervals) for these sites can be accessed through the BoM website via the following hyperlink (refer Figure 6.1 for an indication of the relevant site-specific station):

<http://www.bom.gov.au/nsw/flood/sydney.shtml>



For Emergency Help in Floods Call the NSW State Emergency Service (SES) on 132 500 .  
For flood preparedness and safety advice visit the NSW SES [FloodSafe](#) website



## 6.4 Emergency Response Planning

Flood Emergency Management planning refers to the preparation of a formal community-based plan of action to deal with the threat, onset and aftermath of flooding. It involves planning for an event equal to, or greater than the event used to derive the FPL.

The plan of action should include an on-site response plan that addresses what measures should be undertaken once the threat of a flood is determined to be imminent. A flood evacuation strategy should also be included so that all persons within the precinct are familiar with the processes required if a flood occurs.

A flood evacuation strategy should be included in the induction process during construction to familiarise all personnel on site during construction.

Flood modelling by Costin Roe Consulting shows the 1% AEP extent is located on the northeastern corner of the site. The review shows that safe access/egress (Hazard Categorization <H1) will be available along the length of the western boundary of the site.

## 6.5 Preparation Steps

It is the responsibility of Management to understand the risks and dangers of flooding relating to the development site, and the need to restrict access to the flood management zone (overland flow path) (subject to flooding) in such an event.

It is recommended that key persons within Management are registered to be able to receive flood warning messages via SMS from the NSW SES. This should include a specific Flood Warden, as well as upper management personnel.

Lastly, the evacuation framework contained in this report must be understood and adapted, as necessary. It is recommended that a copy or copies of this report are kept at several locations on site such as the construction site shed, maintenance manager, and office administrator. A thorough understanding of Councils Local Flood Plan should also be made.

The plan of action includes an on-site response plan that addresses what measures should be undertaken once the threat of a flood is determined to be imminent and the occupants should be inducted so that all persons within the precinct are familiar with the processes and the flood evacuation strategy required if a flood occurs.

It is noted that significant lead warning time would be required to enable effective flood response plans to be initiated for this site to address safety of persons. Lead warning would be necessary for removal of vehicles from the basin areas or understanding when restriction of vehicles from entering the basin area should be made. Refer to **Section 7.1** below for early warning systems.

## 7 FLOOD RESPONSE

### 7.1 Flood Response Introduction

The following sub-sections of the report provide information on potential flood triggers that could be utilised by site management (during construction and operation) to be able to prepare their own flood response plans.

The site management (during construction) may install site flood depth along the northeast drainage channel where floodwaters enter the site. Refer to **Figure 7.1** for possible Flood Depth Gauge locations.

The plan below should form part of the contingency planning to comply with Condition C1 (e) of the consent.

### 7.2 Response Triggers & Site-Specific Measures

The proposed flood response triggers and measures for both the construction and operational phases of the development are provided in **Table 7.1** below.

**Table 7.1– 1% AEP Flood Levels & Depths – Post-development**

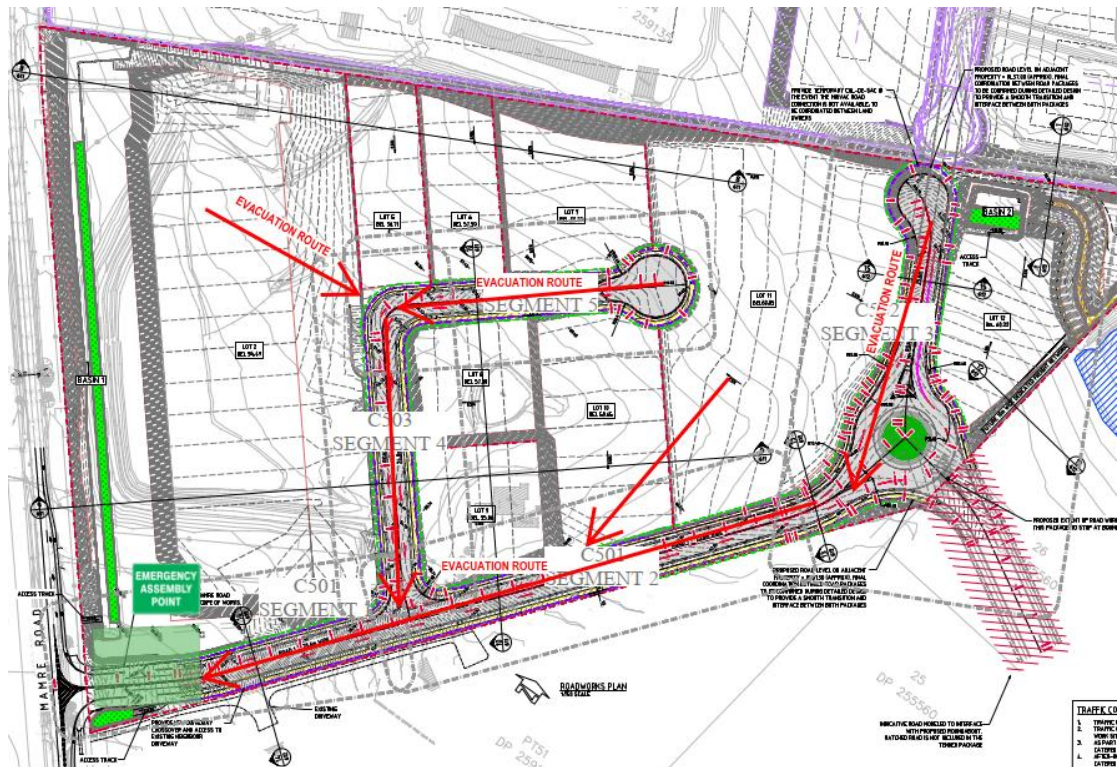
|                                                                             | Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Trigger 1:</i><br><i>A flood alert/watch/advice is issued by the BOM</i> | A BOM alert will be issued if flood producing rain is predicted. This provides an early warning that flooding may occur, however is not confirmation that flooding will occur. If this alert is issued then the Flood Warden should be on alert for further BOM, SES or site-specific Triggers.                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <i>Trigger 2:</i><br><i>General flood alert issued by the BOM</i>           | A generalised flood warning would be issued when flooding is expected to occur in a given area. These would generally be provided by the BOM with three hours warning time is expected from issue of warning to peak flood level as per the "Service Level Specification for Flood Forecasting and Warning Services for New South Wales – Version 2.0" (Bureau of Meteorology, 2013).<br><br>Construction crews, or other persons, who might need to access the flood storage area should be notified prior to entering the potentially flood affected areas. Notifications of a Flood event will be | A generalised flood warning would be issued when flooding is expected to occur in a given area. These would generally be provided by the BOM with three hours warning time is expected from issue of warning to peak flood level as per the "Service Level Specification for Flood Forecasting and Warning Services for New South Wales – Version 2.0" (Bureau of Meteorology, 2013).<br><br>Maintenance workers, or other persons, who might need to access the flood storage area should be instructed to not enter the floodway and gather at the |

|                                                                                                    | Construction                                                                                                                                                                                                                                                                                                                                                                                   | Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                    | <p>sounded over the UHF and an Airhorn to sound an alarm to gather at the emergency assembly area.</p> <p>It is noted that Trigger 3 may occur prior to Trigger 2 and the Flood Warden is required to consider this eventuality.</p>                                                                                                                                                           | <p>emergency assembly area.</p> <p>It is noted that Trigger 3 may occur prior to Trigger 2 and the Flood Warden is required to consider this eventuality.</p>                                                                                                                                                                                                                                                                                                                                             |
| <p><i>Trigger 3:</i><br/><i>Site flood level gauge achieves flood depth of 0.1m – 0.5m</i></p>     | <p>Site Supervisor/ESR at this point should put construction workers on alert to evacuate the site from the eastern entrance and close the construction access point to the channel. Site Supervisor/ESR to contact SES for additional updates, if required.</p>                                                                                                                               | <p>Flood Warden at this point should put warehouse occupants on alert to evacuate the site from the eastern entrance and close the maintenance access point to the channel. Flood warden to contact SES for additional updates, if required.</p>                                                                                                                                                                                                                                                          |
| <p><i>Trigger 4:</i><br/><i>Site flood level gauge achieves flood depth greater than 0.5m.</i></p> | <p>Site Supervisor/ESR should advise the immediate evacuation of the development site to the south and to ensure the site entry remain closed for both cars and personnel. Safe evacuation to the south only as noted in the above evacuation strategy, no evacuation should be made in a northerly direction.</p>                                                                             | <p>Flood Warden should advise the immediate evacuation of the development site to the south and to ensure the site entry remain closed for both cars and personnel. Safe evacuation to the south only as noted in the above evacuation strategy, no evacuation should be made in a northerly direction.</p> <p>Flood Warden should advise occupants or remaining occupants (those opting to seek refuge on site) to move to higher ground (upper levels), for example within the Warehouse or Office.</p> |
| <p><i>End of Response Operations</i></p>                                                           | <p>Once the flood levels recede below the trigger level and the danger posed by flooding has passed, the NSW SES Local Incident Controller will issue an “all clear” message which will be conveyed in the same format as the warning message, via SMS. The site occupiers can then leave the industrial precinct if on site refuge was undertaken or return to the precinct if evacuated.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



### 7.3 Flood Evacuation Route

In the event a flood necessitates evacuation in accordance with the triggers listed in **Table 7.1** above, the proposed evacuation path is shown in **Figure 7.1** below:



**Figure 7.1 – Flood Evacuation Route and Flood Depth indicators**

### 7.4 Flood Evacuation Procedure

The evacuation procedure is described generally as follows:

- At the direction of the Contractors ERM/Flood Warden, site occupants shall evacuate to the road corridor.
- Persons are to avoid entering their vehicles during a flood response scenario – evacuation shall be on foot.
- Persons shall travel in a southerly direction along the main estate collector road to the emergency assembly point at the corner of the estate collector road and Mamre Road.
- The Contractors ERM/Flood Warden(s) shall ensure site occupants remain at the assembly point until the “all-clear” is given by the SES Local Incident Controller

A specific Flood Evacuation Response plan has been developed by Burtons to implement during the construction stage of works. This evacuation plan has been included in **Appendix D** of this report.

## **Emergency Contacts**

*State Emergency Services (SES) – 132 500*

*Fire & Rescue NSW - 000*

*Police Emergency – 000*

*St Marys Police Station – (02) 9677 7499*

*Penrith City Council – (02) 47325 7777*

*Project Manager: Zacharia Youssef – 0499 233 203*

*Site Supervisor: Anthony Gobbo – 0437 997 572 (First Aid Trained)*

*Safety Officer: Laura Inglis – 0499 722 998 (First Aid Trained)*

*Site Engineer: Dylan Ible – 0476 666 295 (First Aid Trained)*

*Environmental Site Representative: Sul Ghani – 0499 182 768*

Emergency contacts are to be updated as part of the FRP review process.

## **7.5 Contingency Plan**

In the event that the response plan discussed above is not triggered and/or evacuation does not commence in time for a safe evacuation to the designated assembly point, the Contractor's ESR or Flood Warden should advise all personnel within the flood channel to evacuate immediately and direct all personnel to seek high ground on the Lot 12 pad (during construction) or the Lot 12 office (during operation).

If evacuation through the roads is not possible due to flooding all personnel should assemble themselves on the highest point on the site (Lot 12). Lot 12 is set at an RL of 60.15 approx. around 5m above the flood level within the proposed channel (RL55) and above the flood level in the proposed estate road during a PMF event.

## **8 CONCLUSION**

Costin Roe Consulting Pty Ltd has been commissioned to develop this FMP/FERP for the industrial development at 884-928 Mamre Road, Kemps Creek NSW.

The report provides a summary of flood behaviour of local flooding which affects the site, and the different conditions which cause flooding on the site.

Flood preparedness and response techniques have been clarified, including warning triggers and distribution of the flood response procedures. During flooding events, the northern access to and from the site should be closed all personnel and vehicles and evacuation should take place to the south-west of the site while conditions allow.

The report provides requirements for the monitoring and maintenance of the existing flood detention basin during construction and operation to maintain the current design standard.

Further the report provides the framework for the preparation of the flood egress plans as required throughout the operational phase of the development.



## 9 REFERENCES

- Flood Risk Management Manual (2023)
- Penrith Overland Flow “Overview Study” – Flood Analysis for Central Urban (Zone 1), Northern Rural (Zone 2), Southern Rural (Zone 3) (August 2006).
- Mamre Road Precinct Development Control Plan - **Section 2.5** Flood Prone Land
- SES (Nov 2019). Provision of and Requirements for Flood Warning
- Bureau of Meteorology (2013). Service Level Specification for Flood Forecasting and Warning Services for New South Wales – Version 2.0

# **APPENDIX A**

## **COSTIN ROE CONSULTING**

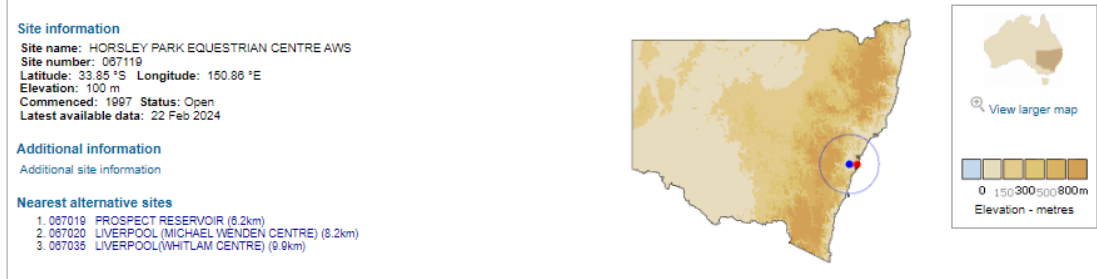
### **FLOOD MODELLING DRAWINGS**

## APPENDIX B

### MONTHLY RAINFALL DATA & CLIMATE STATISTICS – HORSLEY PARK EQUESTRIAN CENTER AWS (STATION 067119)

#### Summary statistics HORSLEY PARK EQUESTRIAN CENTRE AWS

A summary of the major climate statistics recorded at this site is provided below. There is also an extended table with more statistics available. More [detailed data for individual sites](#) is available.





| Statistics                         | Jan    | Feb   | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Annual | Years | Plot         | Map |
|------------------------------------|--------|-------|------|------|------|------|------|------|------|------|------|------|--------|-------|--------------|-----|
| <b>Temperature</b>                 |        |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |
| Mean maximum temperature (°C)      | ① 20.9 | 20.7  | 26.7 | 23.8 | 20.5 | 17.7 | 17.5 | 19.1 | 22.4 | 24.7 | 26.4 | 28.4 | 23.8   | 26    | 1997<br>2024 |     |
| Mean minimum temperature (°C)      | ① 18.0 | 17.8  | 16.2 | 12.9 | 9.0  | 7.1  | 5.9  | 6.5  | 9.3  | 11.9 | 14.3 | 16.2 | 12.1   | 26    | 1997<br>2024 |     |
| <b>Rainfall</b>                    |        |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |
| Mean rainfall (mm)                 | ① 75.7 | 123.2 | 92.6 | 69.0 | 43.6 | 66.5 | 51.3 | 39.1 | 37.4 | 62.7 | 77.8 | 66.2 | 804.6  | 26    | 1997<br>2024 |     |
| Decile 5 (median) rainfall (mm)    | ① 72.6 | 93.3  | 60.8 | 58.5 | 27.7 | 50.0 | 25.7 | 26.7 | 24.2 | 49.0 | 57.2 | 63.8 | 715.8  | 26    | 1997<br>2024 |     |
| Mean number of days of rain ≥ 1 mm | ① 8.0  | 7.8   | 8.7  | 6.8  | 5.1  | 6.0  | 5.4  | 4.1  | 5.0  | 6.0  | 7.1  | 7.1  | 77.1   | 26    | 1997<br>2024 |     |
| <b>Other daily elements</b>        |        |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |
| Mean daily sunshine (hours)        | ①      |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |
| Mean number of clear days          | ①      |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |
| Mean number of cloudy days         | ①      |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |
| <b>9 am conditions</b>             |        |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |
| Mean 9am temperature (°C)          | ① 22.0 | 21.5  | 19.4 | 17.5 | 13.8 | 11.1 | 10.3 | 12.0 | 15.6 | 18.1 | 19.2 | 20.9 | 18.8   | 13    | 1997<br>2010 |     |
| Mean 9am relative humidity (%)     | ① 73   | 77    | 81   | 76   | 77   | 80   | 78   | 70   | 65   | 61   | 70   | 71   | 73     | 13    | 1997<br>2010 |     |
| Mean 9am wind speed (km/h)         | ① 10.1 | 9.7   | 8.9  | 10.5 | 10.7 | 10.3 | 10.8 | 11.7 | 12.2 | 12.5 | 11.8 | 10.7 | 10.8   | 13    | 1997<br>2010 |     |
| 9am wind speed vs direction plot   | ①      |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |
| <b>3 pm conditions</b>             |        |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |
| Mean 3pm temperature (°C)          | ① 28.2 | 27.1  | 25.3 | 22.2 | 19.2 | 16.6 | 16.1 | 17.8 | 20.8 | 22.5 | 24.2 | 26.5 | 22.2   | 13    | 1997<br>2010 |     |
| Mean 3pm relative humidity (%)     | ① 49   | 53    | 54   | 53   | 52   | 55   | 50   | 42   | 42   | 45   | 50   | 48   | 49     | 13    | 1997<br>2010 |     |
| Mean 3pm wind speed (km/h)         | ① 19.4 | 17.0  | 14.8 | 14.4 | 13.0 | 12.9 | 13.9 | 16.1 | 18.1 | 19.8 | 19.5 | 19.9 | 16.6   | 13    | 1997<br>2010 |     |
| 3pm wind speed vs direction plot   | ①      |       |      |      |      |      |      |      |      |      |      |      |        |       |              |     |

## **APPENDIX C**

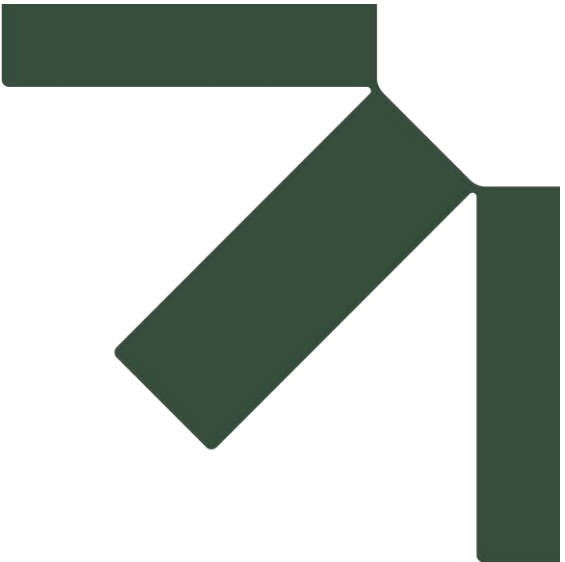
### **SES PENRITH CITY LOCAL EMERGENCY SUB PLAN**

<https://www.ses.nsw.gov.au/media/5359/penrith-local-flood-plan-feb-2022.pdf>

## **APPENDIX D**

### **Burton Contractors – Flood Evacuation Response Plan**





## **Appendix J    Unexpected Finds Protocol**



03 June 2024

Ref: 2424-LTR-01-140224.v5f

Andrew David  
Project Manager  
Burton Civil Engineering Contractors  
By email: [Andrew.David@burtoncontractors.com.au](mailto:Andrew.David@burtoncontractors.com.au)

## **RE: Unexpected Finds Protocol – 884-928 Mamre Road, Kemps Creek NSW**

### **1 Introduction**

#### **1.1 Overview**

Sydney Environmental Group Pty Ltd (SE) was commissioned by Burton Civil Engineering Contractors Pty Ltd (the client) to prepare an Unexpected Finds Protocol (UFP) for the site at 884-928 Mamre Road, Kemps Creek NSW (hereafter referred to as 'the site').

In consultation with the client, SE has the following appreciation of the site:

- The site occupies an area of approximately 20.0 hectares;
- The site is proposed for redevelopment, comprising demolition of existing structures, and construction of an industrial estate, which includes bulk earthworks, fit out and operation of a warehouse and distribution centre and ancillary office space with a total gross floor area of 39,161 m<sup>2</sup>, landscaping, staged subdivision, construction of estate roads and intersection, site servicing and stormwater infrastructure;
- A Detailed Site Investigation carried out for the site by JBS&G (2022) did not identify contamination within the site, and concluded that the site is suitable for the proposed commercial/industrial land use without contamination remediation and/or management;
- An Aboriginal Cultural Heritage Assessment completed by Austral Archaeology (2021 - refer to EIS), uncovered seven (7) artefacts considered to likely be the result of extensive stages of land clearance that is typically present within the background scatter of the Cumberland Plain and is therefore considered to indicate a low potential for intact archaeological deposits to be present within the site; and
- The site requires an Unexpected Finds Protocol (UFP) as part of Conditions of Consent of the Infrastructure Approval, in the event unexpected contamination / Aboriginal / historical heritage finds are uncovered during the earthworks / civil works stages of the redevelopment.

#### **1.2 Legislation**

The Unexpected Finds Protocol (UFP) has been prepared in accordance with the following contamination and heritage legislation, which are relevant to this document and are to be construed as forming an integral part of this document:

- *Protection of the Environment Operations (POEO) Act 1997.*
- *Contaminated Land Management (CLM) Act 1997.*
- *Work Health and Safety Regulation 2017.*
- *Work Health and Safety Act 2011.*
- *Heritage Act 1977 (NSW).*
- *National Parks and Wildlife Act 1974 (NSW).*
- *Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Cth).*
- *Coroner's Act 2009 (NSW).*

### **2 Objectives**

The objective of the Unexpected Finds Protocol is to:

- Manage potential unexpected contamination finds to mitigate associated human health and environmental risks, and address obligations under the Protection of the Environment Operations (POEO) Act 1997 (NSW) and Contaminated Land Management (CLM) Act 1997 (NSW);
- Manage potential unexpected heritage finds to address obligations under the Heritage Act 1977 (NSW), National Parks and Wildlife Act 1974 (NSW), Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Cth) and the Coroner's Act 2009 (NSW); and



- Satisfy Conditions C1, B86-B89, B99, B100, B101 and Appendix 3 (Condition 23) of the development consent (SSD-17647189).

## 2.1 Development Consent Conditions

Refer to **Table 2.1** below for references to Sections within the UFP in accordance with the conditions outlined in within SSD-17647189.

**Table 2.1.** Relevant Development Consent Conditions

| Development Consent Reference | Condition Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Section of Report           |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| C1                            | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:                                                                                                                                                                                                                                                                                                                                                          | -                           |
| C1 (a)                        | Detailed baseline data;                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Section 1 and Section 2     |
| C1 (b)                        | Details of:<br>(i) The relevant statutory requirements (including any relevant approval, licence or lease conditions);<br>(ii) Any relevant limits or performance measures and criteria; and<br>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 1.2                 |
| C1 (c)                        | A description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                                                                                                                                                                                                                                                                                           | Section 3.1 and Section 3.2 |
| C1 (d)                        | A program to monitor and report on the:<br>(i) Impacts and environmental performance of the development; and<br>Effectiveness of the management measures set out pursuant to paragraph (c) above;                                                                                                                                                                                                                                                                           | Section 4                   |
| C1 (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 4                   |
| C1 (f)                        | A program to investigate and implement ways to improve the environmental performance of the development over time;                                                                                                                                                                                                                                                                                                                                                          | Section 5                   |
| C1 (g)                        | A protocol for managing any:<br>(i) non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);<br>(ii) complaint;<br>failure to comply with statutory requirements; and                                                                                                                                                                                                                                             | Section 6                   |
| C1 (h)                        | A protocol for periodic review of the plan.                                                                                                                                                                                                                                                                                                                                                                                                                                 | Section 6                   |
| B86                           | Prior to the commencement of earthworks, the Applicant must implement the recommendations outlined in Section 8 of the Aboriginal Cultural Heritage Assessment Report, prepared by Austral Archaeology Pty Ltd and dated 9 July 2021                                                                                                                                                                                                                                        | Section 3.2                 |
| B87                           | If any item or object of Aboriginal heritage significance is identified on site:<br>(a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately;<br>(b) a 10 m wide buffer area around the suspected item or object must be cordoned off; and<br>(c) Heritage NSW must be contacted immediately.                                                                                                                               | Section 4.2                 |
| B88                           | 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.                                                                                                                                                                                                                                                                                                | Section 4.2                 |
| B89                           | If any archaeological relics are uncovered during the course of the work, then all works must cease immediately in that area. Unexpected finds must be evaluated and recorded in accordance with the requirements of Heritage NSW.                                                                                                                                                                                                                                          | Section 3.2 and Section 4.2 |
| B99                           | Prior to the commencement of earthworks, the Applicant must prepare an unexpected contamination 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 must be disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site. | Entire document             |
| B100                          | Prior to the commencement of earthworks, the Applicant must prepare a hazardous building materials survey of the structures on site and present the findings of this survey to the Certifier                                                                                                                                                                                                                                                                                | Section 3.1                 |



| Development Consent Reference | Condition Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Section of Report |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| B101                          | The Applicant must ensure that any asbestos encountered during the earthworks and construction is monitored, handled, transported and disposed of by an appropriately qualified and licensed contractor with the requirements of SafeWork NSW and relevant guidelines, including: <ul style="list-style-type: none"> <li>(a) Work Health and Safety Regulation 2017</li> <li>(b) SafeWork NSW Code of Practice – How to Manage and Control Asbestos in the Workplace September 2016</li> <li>(c) SafeWork NSW Code of Practice – How to Safely Remove Asbestos September 2016</li> <li>(d) Protection of the Environment Operations (Waste) Regulation 2014</li> </ul> | Section 4.1       |
| Appendix 3 (Condition 23)     | If unforeseen Aboriginal objects are uncovered during construction the unexpected finds protocol will be followed. Work will cease in the area, and the NSW Office of Environment and Heritage will be informed.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Section 4.2       |

### 3 Unexpected Finds

#### 3.1 Unexpected Contamination Finds

Unexpected finds of potential contamination on site may be identified by visual (appearance / staining) and/or olfactory (odour) evidence. Features described in **Table 3.1** overleaf are typically encountered as unexpected finds.

**Table 3.1.** Identification of Unexpected Finds (Contamination)

| Unexpected Find                                        | Details                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Buried or Surface Asbestos Containing Materials</b> | Includes non-friable (bonded) and/or friable asbestos. Visibly identifying asbestos is possible, but requires sampling / analysis by a NATA accredited laboratory to confirm the presence / absence of asbestos fibres.                                                                                                           |
| <b>Hazardous Building Materials</b>                    | A hazardous building material survey must be undertaken prior to any proposed demolition activities for all structures at the site to identify and confirm the presence / absence of hazardous building materials within the site.                                                                                                |
| <b>Building Waste Materials</b>                        | Includes a variety of waste materials, like wood, plastic, metal, building rubble and general household waste / rubbish. Waste materials could indicate uncontrolled filling / dumping.                                                                                                                                           |
| <b>Hydrocarbon Impacts</b>                             | Identified as a hydrocarbon odour and/or visible staining, oily sheen and/or larger discolouration of soil strata.                                                                                                                                                                                                                |
| <b>Septic Tanks</b>                                    | Often identified by an organic odour (landfill/sewer/putrefied) of varying strength.                                                                                                                                                                                                                                              |
| <b>Underground Storage Tanks (UST)</b>                 | Maybe identified by a buried cylindrical steel tank, bowzers, fill points, footings or steel pipelines, and is often accompanied by hydrocarbon odours or staining.                                                                                                                                                               |
| <b>Acid Sulfate Soils (ASS)</b>                        | While more than likely not relevant to this site, ASS is identified by sulfidic odour of varying strength and/or grey to dark brown and yellow / orange mottling.                                                                                                                                                                 |
| <b>Other Unexpected Finds</b>                          | May include various chemical odours or staining, and discolouration of soils. It is possible to encounter indications of contamination that may not be specifically described in this UFP. If in doubt, a precautionary principal should be implemented and the Unexpected Finds Procedure outlined in <b>Section 4</b> followed. |

#### 3.2 Unexpected Heritage Finds

Unexpected finds of potential heritage on site may be categorised as either Aboriginal objects, Historic (non-Aboriginal) heritage items or human skeletal remains. Features described in **Table 3.2** below are typically encountered as unexpected finds.

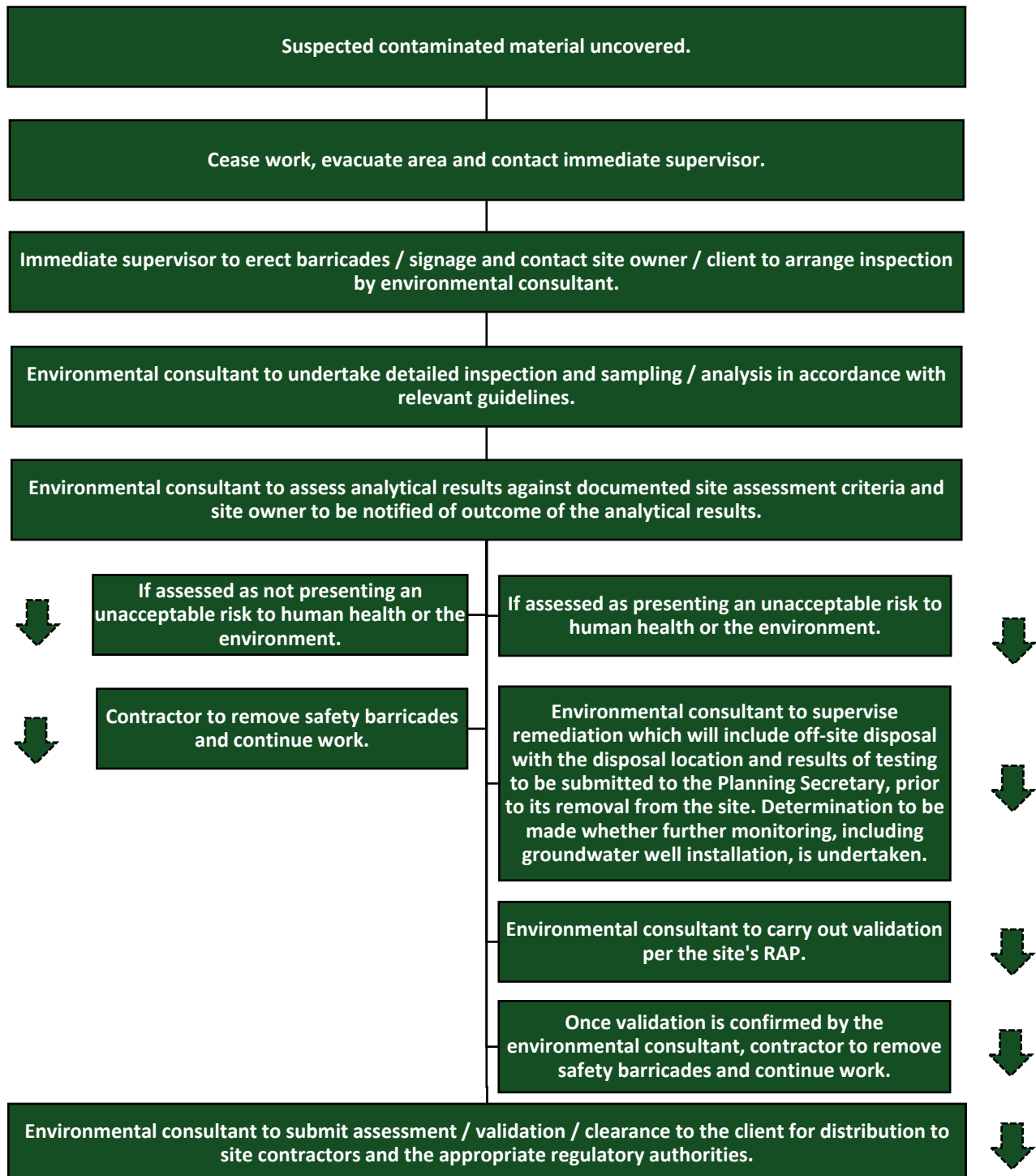
**Table 3.2** Identification of Unexpected Finds (Heritage)

| Unexpected Find                                 | Details                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aboriginal Objects</b>                       | Objects include stone tool artefacts, shell middens, axe grinding grooves, pigment or engraved rock art, burials and scarred trees.                                                                                                                                                                                                                                                                                    |
| <b>Historic (non-Aboriginal) Heritage Items</b> | Archaeological relics (including 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) and other historical items (include culverts, historic road formations, historic pavements, buried roads, retaining walls, tramlines, cisterns, fences, sheds, buildings and conduits) |
| <b>Human Skeletal Remains</b>                   | Identified as bone fragments, which may not resemble human remains, to skeletal items in isolation (such as a skull) which can clearly be defined as human.                                                                                                                                                                                                                                                            |

## 4 Unexpected Finds Procedure

### 4.1 Unexpected Finds Procedure (Contamination)

In the event that any suspected contamination is found during earthworks / construction phase scope, the following Unexpected Finds Procedure is to be followed:



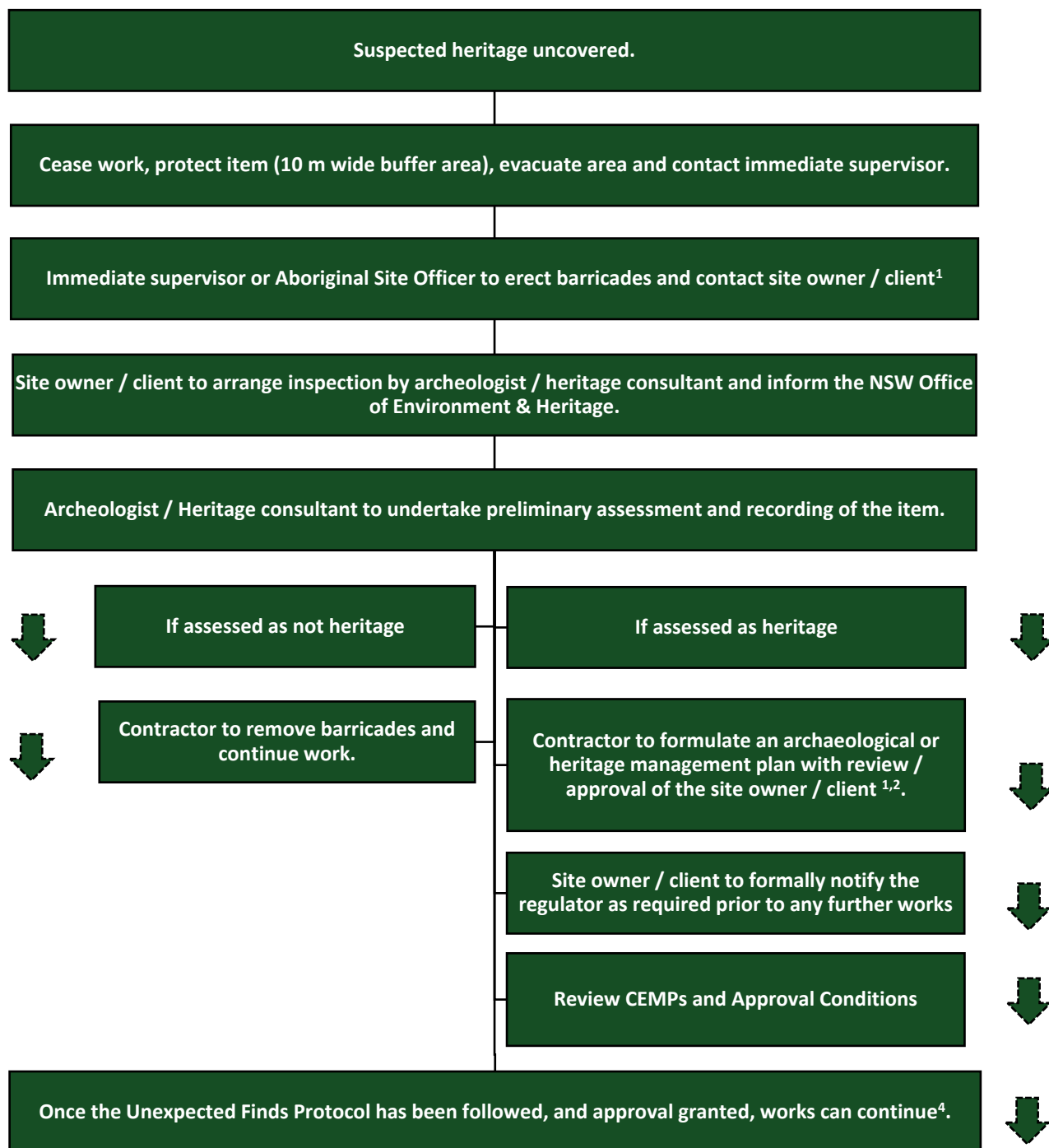
SE note that contamination must be managed in accordance with the following relevant guidelines:

- Work Health and Safety Regulation 2017;
- SafeWork NSW Code of Practice – How to Manage and Control Asbestos in the Workplace September 2016;
- SafeWork NSW Code of Practice – How to Safely Remove Asbestos September 2016; and
- Protection of the Environment Operations (Waste) Regulation 2014.



#### 4.2 Unexpected Finds Procedure (Heritage)

In the event that any suspected heritage items are found during earthworks / construction phase scope, the following Unexpected Finds Procedure is to be followed:



#### Notes to UFP:

1. Per Section 8 of the ACHAR, if suspected human skeletal remains are uncovered, it is a requirement to contact the NSW Police (who may then contact the Coroner's Office). If remains are believed to be of Aboriginal Origin, the appropriate Aboriginal stakeholders and Heritage NSW must be notified, with aboriginal remains to be left in place.
2. Per Condition B86, if Aboriginal objects are collected during any assessment / testing, these items must be reburied onside following works.
3. Recommencement of works must be in accordance with the provisions of Part 6 of the National Parks and Wildlife Act (1974).



## 5 Training

All construction personnel are to be inducted on the identification of unexpected finds outlined in **Table 3.1** and **Table 3.2**, and the unexpected finds flowcharts outlined within **Section 4**. The induction into the UFP must be carried out by a suitably qualified person nominated by the client, and should be part of a broader induction into the Construction Environmental Management Plan (CEMP) (Section 3) for the site.

All inducted personnel are to sign onto a training register following induction, with this UFP readily available as part of the CEMP during all earthworks / civil works and general construction phase scope.

## 6 Performance Criteria

The unexpected finds protocol is to be followed in the event an unexpected find related to contamination and/or heritage is uncovered during construction works, and as per the CEMP (Section 3). In the event a non-compliance related to failure to notify and engage an appropriate consultant upon uncovering an unexpected find, works must be stopped and the non-conformance recorded in the site's diary. All non-conformances will be reviewed monthly and actions put in place to avoid future non-conformances. Correct and/or follow up actions from investigations will be assigned to a suitable person with an appropriate timeframe for completion.

Reviews, and associated updates, of this UFP, in line with the over-arching CEMP, will be required periodically.

In the event any complaints are made, a client representative will be informed and the client team will engage in communication to rectify the complaint. Please refer to the Project's Community Consultation and Complaints Management Strategy with regards to the handling / management of complaints.

## 7 Closure

We trust the information presented provides sufficient detail with regard to the procedures for identifying, characterising and managing / remediating unexpected contamination finds. As discussed, it is possible that indications of contamination not specifically covered in this UFP or any site inductions may be encountered. The precautionary principal should be applied, and the unexpected finds procedure activated in all such circumstances.

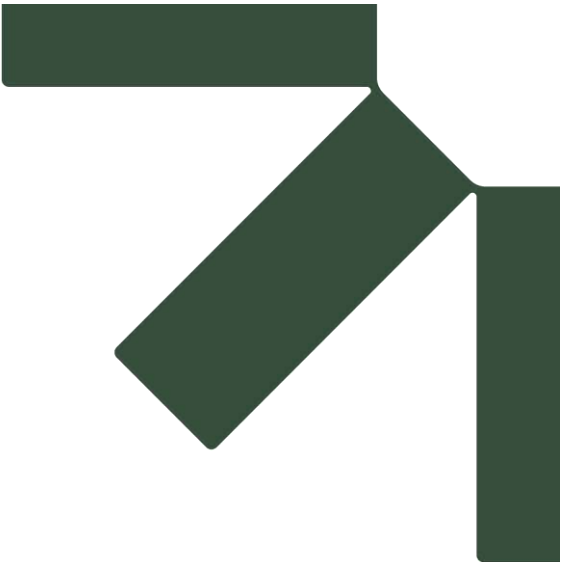
This report should be forwarded to all Aboriginal stakeholder groups who have registered an interest in the project. Aboriginal stakeholder groups should also be notified at the completion of the project, as required.

If you have any queries regarding this UFP, please do not hesitate to contact me.

Sincerely yours,



Managing Consultant  
CEnvP, M.Sc. Envir. Sci., B.Sc. Meteorology  
E: [steve@sydneyenvironmental.com.au](mailto:steve@sydneyenvironmental.com.au)  
M: 0434 215 998



# **Appendix K      Community Consultation and Complaints Handling**

# Community Consultation and Complaints Handling Strategy

Access Logistics Estate – Mamre Rd,  
Kemps Creek





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# 1. INTRODUCTION

Burton Contractors has been engaged by Altis Bulky Retail Pty Ltd to design and deliver a Construction Community Consultation Plan (the Plan) that will guide the construction program for the Lot 52 and Lot 53 in DP259135 at 884-928 Mamre Road (the Project) at Kemps Creek, NSW.

The project will provide a world class industrial area, primarily catering for warehousing and logistics and forming an extension of the Western Sydney Employment Area. The ultimate vision of the Mamre Road Precinct, of which this project is a part of, would contribute successfully to the local and wider Australian economy.

This Plan has been prepared in line with the consent conditions related to community consultation in the Development Consent for SSD 17647189 and outlines how the project will manage interaction with the community and relevant stakeholder groups during construction. This Plan will be implemented and maintained throughout the construction of the project.

## Revisions

| Revision | Prepared By      | Approved By      | Internal Approval Date | Revision History                                                                                                                                           |
|----------|------------------|------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | Josh Macree      | Andrew David     | 02/04/2024             | Draft submission for client Environmental Representative (ER) client approval                                                                              |
| 2        | Josh Macree      | Zacharia Youssef | 11/04/2024             | Resubmission addressing ER comments dated 02/04/2024 for client Environmental Representative client approval                                               |
| 3        | Josh Macree      | Zacharia Youssef | 19/04/2024             | Resubmission addressing ER comments dated 18/04/2024 for client Environmental Representative client approval                                               |
| 4        | Zacharia Youssef | Zacharia Youssef | 03/06/2024             | Resubmission addressing the Department of Planning and Environment comments email dated 31/05/2024 for client Environmental Representative client approval |



# 1.1 CONSENT REQUIREMENTS AND RELATED COMMUNITY STRATEGIES

Table 1 identifies the reference/s within this strategy as they relate to the requirements within the Development Consent Conditions – SSD 17647189 that refer to consulting with the community.

**Table 1 Development Consent Conditions requirements**

| Condition | Consent condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Report reference                                 |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| A36       | The Applicant must engage an Environmental Representative (ER) to oversee earthworks and construction of the development. Unless otherwise agreed to by the Planning Secretary, earthworks and 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:                                                                                                                                                                   |                                                  |
|           | <p>(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;</p> <p>(h) as may be requested by the Planning Secretary, assist the Department in the resolution of community complaints;</p>                                                                                                                                                                                                                 | Refer to Section 5 of this document.             |
| A39       | Within three months of the commencement of earthworks for the development and until all components of the development are constructed and operational, the applicant must 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: |                                                  |
|           | (e) review community concerns or complaints with respect to environmental management;                                                                                                                                                                                                                                                                                                                                                                                                                                          | Refer to Section 5 of this document              |
| B1        | Prior to the commencement of earthworks for 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 Construction Environmental Management Plan (CEMP) required by condition C2 and must:                                                                                                                                                                                                          |                                                  |
|           | (g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.                                                                                                                                                                                                                                                                                                                                                                               | Refer to Section 4.1 – Table 3 of this document. |
| B60.      | The Applicant must prepare a Construction Noise and Vibration Management Plan (CNMP) 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:                                                                                                                                                                                                                                                                                            |                                                  |



|     |                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
|     | (e) Include strategies that have been developed with the community for managing high noise generating works including acoustic screens around the perimeter of the site.                                                                                                                                                                           | Refer to Section 4.1 – Table 3 of this document.<br><br>Refer to Section 7 of the Construction Noise Management Plan. |
|     | (f) Describe the community consultation undertaken to develop the strategies in condition B60(e);                                                                                                                                                                                                                                                  | Refer to Section 4.1 – Table 3 of this document.<br><br>Refer to Section 7 of the Construction Noise Management Plan. |
|     | (g) Include a complaints management system that would be implemented for the duration of the development.                                                                                                                                                                                                                                          | Refer to Section 5 of this document.<br><br>Refer to Section 7 of the Construction Noise Management Plan.             |
| B74 | The Applicant must offer and prepare (if the offer is accepted) a pre-dilapidation and post-dilapidation survey at 930-966 Mamre Road Kemps Creek:                                                                                                                                                                                                 |                                                                                                                       |
|     | (a) prior to the commencement of construction; and                                                                                                                                                                                                                                                                                                 | 930-966 Mamre Road to be issued pre-dilapidation survey by Ausdilaps prior to the commencement of construction;       |
|     | (b) within one month of the conclusion of construction, or as otherwise agreed with the Planning Secretary.                                                                                                                                                                                                                                        | and post-dilapidation survey within one month of conclusion of construction                                           |
| B75 | Should the survey at Condition B74(b) identify any damage, the Applicant must discuss the repairs to be undertaken with the relevant property owners, and repair or pay the full costs associated with repairing any part of the building that is determined to be damaged by the carrying out construction works associated with the development. | To be carried out by Ausdilaps on behalf of the contractor                                                            |
| B83 | Prior to the commencement of operation, 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:                                                                                                       |                                                                                                                       |
|     | (f) Outline procedures that will be implemented in relation to:<br><br>iii) complaints register<br><br>iv) response procedures                                                                                                                                                                                                                     | Refer to Section 5 – Table 3 of this document.                                                                        |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                      |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Refer to Section 7.2 of the Construction Air Quality Management Plan |
| B103 | The Applicant must consult with the community regularly throughout the development, including consultation with the nearby sensitive receivers in Appendix 2, relevant regulatory authorities, Registered Aboriginal Parties and other interested stakeholders.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Refer to Section 4 of this document                                  |
| C1   | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |
|      | (g) A protocol for managing and reporting any:<br>(ii) complaint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Refer to Section 5 of this document.                                 |
|      | (h) A protocol for periodic review of the plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Refer to Section 6 of this document.                                 |
| C3   | (h) As part of the CEMP required under condition C2 of this consent, the Applicant must include Community Consultation and Complaints Handling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Refer to Section 5 of this document.                                 |
| C17  | At least 48 hours before the commencement of construction until the completion of all works under this consent, the Applicant must:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |
|      | (a) make the following information and documents (as they are obtained or approved) publicly available on its website:<br><br>(i) the documents referred to in condition A2 of this consent;<br><br>(ii) all current statutory approvals for the development;<br><br>(iii) all approved strategies, plans and programs required under the conditions of this consent;<br><br>(v) 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;<br><br>(vi) 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;<br><br>(vii) a summary of the current stage and progress of the development; | Refer to Section 4.1 – Table 3 of this document                      |

|  |                                                                                                                                                                                                                                                                       |                                                        |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|  | <p>(viii) contact details to enquire about the development or to make a complaint;</p> <p>(ix) a complaints register, updated monthly;</p> <p>(x) the Compliance Report of the development;</p> <p>(xii) any other matter required by the Planning Secretary; and</p> |                                                        |
|  | <p>(b) keep such information up to date, to the satisfaction of the Planning Secretary.</p>                                                                                                                                                                           | <p>Refer to Section 4.1 – Table 3 of this document</p> |



## 2. SITE OVERVIEW AND CONTEXT

The project site comprises a total area of approximately 20 hectares (ha) and is located within the Mamre Road Precinct pursuant to State Environmental Planning Policy (Western Sydney Employment Area) 2009 (SEPP WSEA). The Site affords a primary frontage of approximately 450m to Mamre Road to the southwest. Currently vehicular access to each lot is facilitated via a private access road off Mamre Road.

In its existing state, the Site comprises agricultural land, rural housing, farm sheds and vacant land. The Site is bound by agricultural land and rural residential dwellings. The Site is located within the Western Sydney Employment Area (WSEA) and is situated approximately 5km from Badgerys Creek, 20km from Parramatta and 39km from the Sydney CBD.

The Site is also within close proximity to transport infrastructure routes (predominantly the bus network), as well as sharing direct links with the wider regional road network, including Mamre Road, Elizabeth Drive, Lenore Drive, Erskine Park Road, the M4 Western Motorway and the Westlink M7. All of which provide enhanced connectivity to the Subject Site and immediate vicinity, as well as the wider locality.

Additionally, the Subject Site is located within close proximity to active transport links, such as bicycle routes, providing an additional mode of accessible transport available to the Subject Site

The Site and surrounding context are illustrated in the map below.

**Figure 1 Aerial Photograph of the Site**



Source: NearMaps

### 3. LOCAL COMMUNITY AND CONSULTATION APPROACH

Access Logistic Park is surrounded by industrial and agricultural landowners and community stakeholders such as schools, early learning centres and retirement villages.

Community stakeholders were identified in the Community and Stakeholder Participation Strategy which was conducted during the project's planning stage.

Table 2 and Figure attempts to identify the relevant stakeholders that are in close proximity to the site, their anticipated concerns, and the communication activities recommended to reduce the ongoing impact of site activities.

It is important that stakeholder concerns are monitored during the construction phase and the below table reviewed and amended where appropriate.

Table 2 Stakeholders, activities, and concerns

| Local community stakeholder                                                                                                                                                                                                                                                                                                                                                                                                                           | Communication activities (see Section 4)                                                                                                                                                                           | Anticipated concerns                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surrounding residential stakeholders within a 500m radius of the construction zone including:<br><br>799-803 Mamre Road<br>805-817 Mamre Road<br>819-831 Mamre Road<br>833-843 Mamre Road<br>845-857 Mamre Road<br>859-869 Mamre Road<br>871-883 Mamre Road<br>885-899 Mamre Road<br>901 Mamre Road<br>917 Mamre Road<br>919-929 Mamre Road<br>931 Mamre Road<br>949-965 Mamre Road<br>788-804 Mamre Road<br>806-824 Mamre Road<br>826-842 Mamre Road | Website<br><br>Complaints channels<br><br>Construction start letter<br><br>High-impact work notification letter<br><br>Unplanned out of hours work notification letter<br><br>Community based forums (if required) | Impacts of construction activities including:<br><br>Traffic impacts and disruptions to the local road network<br><br>High noise generating impacts<br><br>Out of hours noise impacts |

| Local community stakeholder                                                                                                                                                                                                                                                                                                                                                                              | Communication activities (see Section 4) | Anticipated concerns |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------|
| 844-862 Mamre Road<br>864-882 Mamre Road<br>930-966 Mamre Road<br>1-23 Aldington Road<br>99-111 Aldington Road<br>113-127 Aldington Road<br>129-139 Aldington Road<br>141-153 Aldington Road<br>155-167 Aldington Road<br>169-181 Aldington Road<br>183-197 Aldington Road<br>201-217 Aldington Road<br>219-233 Aldington Road<br>253-267 Aldington Road<br>269 Aldington Road<br>230-242 Aldington Road |                                          |                      |



Figure 2 Properties (stakeholders) location identified in Table 2



## 4. PROCEDURES AND METHODS OF CONSULTATION

### PROPOSED CONSULTATION METHODS

In accordance with the community consultation requirements outlined in the Development Consent, Burton Contractors will conduct the following consultation activities.

These consultation activities will:

- Provide up to date project information on the publicly accessible website.
- Facilitate the development of strategies with the community to manage potential construction impacts including high noise generating works and traffic and local road network disruptions.

Facilitate the efficient receipt, handling and resolution of complaints or disputes.

**Table 3 Communication activities**

| Activity                       | Description                                                                                                                                                                                                                                                                                                                                                                                                           | Responsibility                                             | Timing                                                                                                                                                         |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Post approval community letter | <p>Prior to the completion of this report, a community notice letter will be issued to surrounding properties (including the stakeholders listed in Section 3). This letter will provide an update on the project and details of the complaint channels.</p> <p>Additionally, the letter will seek to inform whether stakeholders have a desire for a Community-Based Forum to satisfy conditions B60(e) and (f).</p> | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | To be issued prior to project commencement                                                                                                                     |
| Website                        | <p>In line with condition C17(a), all documents will be made publicly available on the Burton Contractors website.</p> <p>To ensure the community remains informed about the project and the operation and environmental performance of the development, the website will be updated during the construction period.</p>                                                                                              | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | <p>No less than 48 hours before the commencement of construction.</p> <p>Information available online (existing website) for the duration of construction.</p> |

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                                                                                   |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Complaints channels                  | <p>In line with conditions B60(g) and C1(g)(ii) and prior to the commencement of construction, a project phone number and email will be established to receive complaints.</p> <p>Both mechanisms will direct the community to the project contact for response. Project contact details and up to date project information will be provided for all communication activities.</p> <p>See Table 4 for complaint channel details. The process for responding to and managing complaints received via these channels are outlined in Section 5.</p>                                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | Ongoing enquiry and feedback management available during the construction period. |
| Construction start letter            | <p>In line with conditions B1(g) and prior to commencement of construction, a letter will be distributed to the local community outlining:</p> <ul style="list-style-type: none"> <li>▪ The construction timeline</li> <li>▪ Detail on the potential impacts including high noise generating works and disruptions to local road networks, and mitigations.</li> <li>▪ Any disruptions to local traffic routes</li> <li>▪ Details on the available complaint channels and instructions on how to ask questions or make a complaint.</li> </ul> <p>In addition to the previously issued post-approval letter, this letter will include an invitation to join a community based forum (see description below).</p> <p>All potentially impacted stakeholders will receive a copy of notifications. These will be letterbox-dropped if verified email addresses are not available.</p> | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | No less than 7 days before start of construction                                  |
| High-impact work notification letter | <p>In line with condition B1(g), a letter outlining high-impact work, impacts including potential disruptions to local roads or high-noise generating works and mitigations, will be distributed to the local community.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | No less than 7 days before high-impact work                                       |



|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |                                                                                |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                                 | <p>This letter will include the complaint channel details with instructions on how to ask questions or make a complaint.</p> <p>If no email addresses of surrounding business, local schools or community facilities are publicly available, or registered through a previous complaint, this letter will be distributed to these stakeholders via letter-box drop.</p>                                                                                                                                                                                                |                                                            |                                                                                |
| Unplanned out of hours work notification letter | <p>In line with condition B1(g) and B46(f) a letter outlining unplanned work, the duration of the work and associated impacts and mitigations, will be distributed to the local community.</p> <p>This letter will include the complaint channel details with instructions on how to ask questions or make a complaint.</p> <p>If no email addresses of surrounding business, local schools or community facilities are publicly available, or registered through a previous complaint, this letter will be distributed to these stakeholders via letter-box drop.</p> | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | No less than 24 hours before unplanned work or as soon as practical afterwards |
| Community based forums (if required)            | <p>In line with condition B60(e), B60(f) and C3; if community interest warrants, an ongoing forum between local community stakeholders and the project team will be established.</p> <p>This forum will allow the community to provide feedback and discuss concerns regarding construction, traffic, noise and environmental impacts and ask questions directly of the project team.</p> <p>This forum will be advertised via the construction start letter.</p>                                                                                                      | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | Ongoing and as required                                                        |
| Complaints register                             | <p>In line with condition B60(g) and b83(f)(iii) a complaints register will be established. This register will include:</p> <ul style="list-style-type: none"> <li>▪ A description of the complaint</li> <li>▪ Who made the complaint</li> </ul>                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | Prior to commencement of construction and updated monthly.                     |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |                                                                                                                                                                                                          |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | <ul style="list-style-type: none"> <li>▪ Date, day and time of the complaint</li> <li>▪ Format of the complaint received and referenced (if applicable)</li> <li>▪ Details of the complaint</li> <li>▪ The response to the complaint</li> <li>▪ Any further actions to prevent reoccurrence</li> <li>▪ Stakeholder follow up if necessary</li> </ul> <p>This register will be used to inform discussion in the Mamre Road Working Group to review community concerns or complains with respect to environmental management.</p> <p>In line with conditions A36(d) and (h), this complaints resolution register will be shared with the appointed Environmental Representative to inform their recommendations on how to reduce impacts on the surrounding community and assist the Department in the resolution of community complaints.</p> <p>In accordance with condition C17(a)(ix), this consultation register will be updated monthly and uploaded to the publicly available project website.</p> |                                                            | Available during the construction period on the project website.                                                                                                                                         |
| Mamre Road Working Group | In line with condition A36, continue attending Mamre Road Working Group meetings to assist with managing and mitigating potential cumulative environmental impacts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | Within three months of commencement of earthworks and attend periodically throughout construction phase.                                                                                                 |
| Aboriginal stakeholders  | In line with condition B103, consultation with the Aboriginal Stakeholders about the management of Aboriginal cultural heritage within the study area throughout the completion of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>▪ Burton</li> </ul> | Consultation outlined in the Aboriginal Cultural Heritage Assessment is valid for 6 months and must be maintained by Burton for it to remain continuous. If a gap of more than 6 months occurs, then the |

|  |  |  |                                                                                 |
|--|--|--|---------------------------------------------------------------------------------|
|  |  |  | consultation will not be suitable for the project and may need to re-commence". |
|--|--|--|---------------------------------------------------------------------------------|



## 5. COMPLAINTS MANAGEMENT

In accordance with conditions B46(h), B60(f), C1 and C3(g), Burton Contractors will implement a complaint handling and management process as outlined in Table 4.

Complaints and enquiries may be received via the Project Information line, email, post or in person. Burton Contractors Community Relations Team member will help to maintain good relations between the project works and members of a community by providing written and verbal updates to those working and living in communities, facilitate negotiation processes and resolve conflicts.

Burton Contractors Community Relations Team member and Project contact and relevant information can be found in **Table 5 Project contact details for stakeholder enquiries and complaints** of this document.

Burton Contractors will ensure adherence by;

- Appropriate responses to each issue raised;
- Establishment and maintenance of a complaints register from start of construction until completion

The Community Liaison is responsible for responding to complaints and enquiries received regarding Burton Contractors activities and impacts associated with those activities. In responding to complaints and enquiries the Community Liaison

- a) Be available to acknowledge, manage and take appropriate action in relation to community enquiries and complaints
- b) Report on the receipt and responses to enquiries and complaints

All community issues and complaints will be made aware to the project team and environmental representative as soon as possible with an outline of how Burton Contractors has attempted to address and resolve these issues.

The following table demonstrates the Complaints Management Process.

**Table 4 Complaints and enquires management**

| Complaints and enquiries management |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Responding to complaints            | <ul style="list-style-type: none"> <li>Record details of complaint received, how it was managed and closeout actions via the utilisation of a complaints register. Complainant's contact details will also be captured.</li> <li>Investigate and determine source of complaint immediately.</li> <li>If the complaint is not related to the Project advise the customer immediately.</li> <li>Provide an oral response acknowledging receipt of complaint to complainant as soon as possible or at least within two hours from the time of the complaint, unless otherwise agreed with the complainant. If no number is provided the complainant must be responded to within a maximum of 24 hours for emails or one week for letters.</li> <li>Provide a detailed written response to the complainant within seven business days of initial complaint, outlining details of the issue and remedial actions.</li> </ul> |
| Responding to enquiries             | <ul style="list-style-type: none"> <li>Provide a response to enquirer within two hours from time of enquiry, during standard construction hours, or on the next business day if received out of hours.</li> <li>Where no phone number has been provided, responses should be made in writing. Where a phone number is provided, a response should be made to the enquirer via telephone</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

All complaints received will be acknowledged as soon as possible within 24 hours. When a complaint or enquiry cannot be resolved immediately, a follow-up verbal response on what action is proposed must be provided to the complainant/enquirer within three working days (or earlier if possible) of a complaint or enquiry being received.

Burton Contractors will establish and maintain a complaints register. The register will report on the receipt and responses to complaints and be provided to the client as requested.

## 5.1 COMMUNITY CONTACTS AND DATABASE

Burton Contractors will update and maintain a community contacts database including accurate information of all stakeholders and community members affected or interested in the project works.

These details will be used to arrange property assessments and to issue ongoing communications.

Burton Contractors will maintain the database until the date of final construction completion.

In addition, a register of all complaints will include the following details and will be kept as a record:

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

In maintaining this database, Burton Contractors will:

- a) Ensure all affected and concerned residents and business, property owners, emergency services, bus operators, local schools and other key stakeholders are included in the database; and
- b) Record all interactions with stakeholders and the community within 48 hours of the interaction taking place.



## 5.2 COMPLAINT REGISTER

Burton Contractors will compile and maintain a project complaint register following the receipt of a community complaint (see below).

In accordance with conditions in A36(h), this register will be shared with the appointed Environmental Representative and used to inform discussion.

### Figure 3 Complaints register to be used by the project

[illegible]

### 5.3 COMPLAINTS CHANNEL

As outlined in Table 4, Burton and Altis will provide an available community liaison who will be able to field complaints and enquiries from the community and address any concerns that may arise.

**Table 5 Project contact details for stakeholder enquiries and complaints**

| Channel             | Details                                                                        |
|---------------------|--------------------------------------------------------------------------------|
| Contact person      | Joshua Macree (Burton Contractors Community Relations Team member)             |
| Mailing address     | 11-21 Underwood Road, Homebush, NSW, 2140                                      |
| Phone number        | 0429 528 430                                                                   |
| Email               | Joshua.Macree@burtoncontractors.com.au                                         |
| Website             | <a href="http://www.burtoncontractors.com.au">www.burtoncontractors.com.au</a> |
| Site Representative | Zacharia Youssef (Project Manager)                                             |

## 6. ONGOING MONITORING

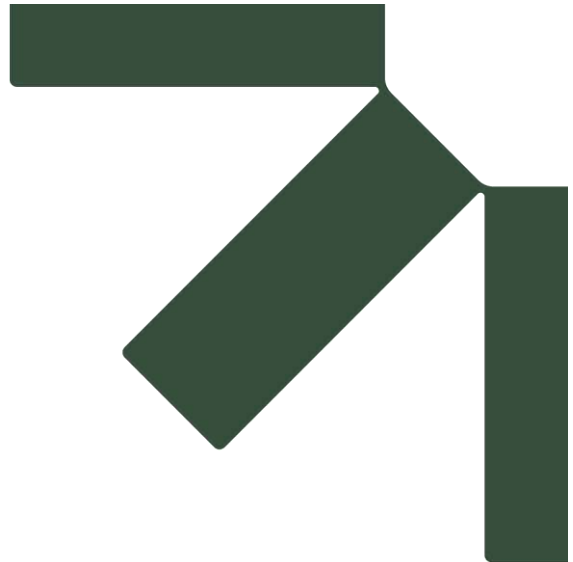
Evaluation of the performance and effectiveness of the Community Consultation and Complaints Handling Strategy will be undertaken where appropriate throughout the construction phase of the project in line with relevant management plans at a frequency of every six months.

The evaluation will be undertaken by the nominated community liaison and include relevant members of the project team.

To ensure the effectiveness of the strategy, it is recommended that the methods and activities should include:

- Ongoing site meetings
- Participation and attendance at the Mamre Road Working Group Meetings
- Review of the complaints register
- Particular attention to reoccurring complaints
- Review of the CCHS in line with relevant Management Plans





## **Appendix L      Consultation Records**



15 August 2024

**Anthony Murr**  
**Associate Director**  
**Project Strategy**  
**PO Box 271**  
**SUTHERLAND NSW 1499**

**By Email:** [amurr@projectstrategy.com.au](mailto:amurr@projectstrategy.com.au)

Dear Anthony,

**SSD-17647189 – 884-928 Mamre Road, Kemps Creek (Access Logistics Park)**  
**Environmental Representative (ER) – Endorsement of the Construction Traffic Management Plan (CTMP)**

Pursuant to SSD-17647189 Condition A36(e)(i), I have reviewed the following document as required under SSD-17647189 Condition C3(a):

- *Construction Traffic Management Plan – Access Logistics Park, 884-928, Mamre Road - Kemps Creek, Revision 13 dated 15/08/2024.*

In my opinion, the document is consistent with the requirements in or under the terms of SSD-17647189 as applicable to the construction of the Development.

It is noted that the consultation requirements for the CTMP as required under Condition B1(b) have now been completed. This is reflected in the CTMP Table 3 and Section 5.1 (Consultation with stakeholders and authorities).

Please feel free to contact me if you require anything further or would like to discuss.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Ben Bracken", written over a light blue circular stamp.

**Ben Bracken**  
Environmental Representative  
Access Logistics Park  
BBEnviro Pty Ltd

Phone: 0410 409 897  
Email: [ben.bracken@bbenviro.com.au](mailto:ben.bracken@bbenviro.com.au)

**From:** Development CTMP CJP <[development.CTMP.CJP@transport.nsw.gov.au](mailto:development.CTMP.CJP@transport.nsw.gov.au)>  
**Sent:** Thursday, June 6, 2024 2:08 PM  
**To:** Grech, Philip <[philip.grech@barings.com](mailto:philip.grech@barings.com)>  
**Cc:** 'Sulakshni Jayawickrama' <[sula.jayawickrama@mugroup.com.au](mailto:sula.jayawickrama@mugroup.com.au)>; 'Joekarl Diaz' <[joekarl.diaz@mugroup.com.au](mailto:joekarl.diaz@mugroup.com.au)>; Development CTMP CJP <[development.CTMP.CJP@transport.nsw.gov.au](mailto:development.CTMP.CJP@transport.nsw.gov.au)>; Heather Trengove <[Heather.Trengove@transport.nsw.gov.au](mailto:Heather.Trengove@transport.nsw.gov.au)>  
**Subject:** [EXTERNAL] Access Logistics Estate (SSD-17647189)\_Construction Traffic Management Plan

Afternoon Phillip,

Transport for NSW (TfNSW), Greater Sydney Division has reviewed the CTMP and endorse the proposed temporary construction arrangements, subject to the following conditions:

Any Traffic Guidance Schemes (TGS) prepared are to comply with AS1742.3 and Transport for NSW's "Traffic Control at Worksites" manual and be signed by a person with TfNSW certification to prepare a TGS.

- Proponent must apply and obtain approval from the Transport Management Centre for a Road Occupancy Licence (ROL) for any required lane closures and/or Speed Zone Authorisations as part of the ROL that may impact the state road network or is within 100m of traffic signals.

Access to be maintained for residents, businesses and emergency vehicles at all times.

No marshalling or queuing of construction vehicles is to occur on public roads. Arriving vehicles that are not able to use parking bay/work zone must continue to a holding point until space becomes available.

When heavy vehicles are entering or leaving the site a traffic controller is to be provided to manage any conflicts between pedestrians and heavy vehicles.

Access to the site should be at the farthest point from the intersection as practicable to reduce additional conflicting vehicle manoeuvres.

- Transport for New South Wales reserve the right to alter the CTMP Conditions at any time to maintain safe and efficient traffic and pedestrian movements in this area.
- Consultation must be undertaken with bus operators as there will be bus routes will need to be diverted.
- Any approved Works Zone should only be used for work activities. No infrastructure, including bins, tanks or traffic control equipment should be left on the road when the works zone is not in use by a vehicle. All non-vehicular items must be contained within the work area and not on the carriageway. When a work zone is not in use, the area/lane must be opened up to allow for normal trafficable conditions
- Should TfNSW Network and Asset Management, Network Operations, CJP Operations, Network and Safety or other TfNSW business area determine that that more information is to be provided for review and acceptance, including other TCS locations, this information must be submitted prior to the CTMP being implemented, or otherwise agreed upon.
- Any traffic control devices, including signage and line marking, should be installed by the proponent and must conform with Australian Standards 1742

Endorsement of the CTMP is not an approval to the type of traffic management or delineation devices used, nor is it an approval to any traffic guidance schemes depicted within the CTMP. It is assumed that the proponent has used type approved devices and has developed its traffic guidance schemes in accordance with the relevant Australian Standards and Guidelines.

The proponent is to ensure local residents, businesses, schools and other stakeholders in the affected area as well as emergency service organisations are notified of the changes associated with the CTMP, prior to its implementation.

Please ensure this CTMP is shared and adhered to by all contractors. If the CTMP changes, please forward a copy to [Developments.CJP@transport.nsw.gov.au](mailto:Developments.CJP@transport.nsw.gov.au) or further review and endorsement.





13 August 2024

**Anthony Murr**  
**Associate Director**  
**Project Strategy**  
**PO Box 271**  
**SUTHERLAND NSW 1499**

**By Email:** [amurr@projectstrategy.com.au](mailto:amurr@projectstrategy.com.au)

Dear Anthony,

**SSD-17647189 – 884-928 Mamre Road, Kemps Creek (Access Logistics Park)**  
**Environmental Representative (ER) – Endorsement of the Erosion and Sediment Control Plan (ESCP)**

Pursuant to SSD-17647189 Condition A36(e)(i), I have reviewed the following document as required under SSD-17647189 Condition C3(b):

- *State Significant Development Application – Access Logistics Park, 884-928 Mamre Road, Kemps Creek, NSW, 2178: Erosion and Sedimentation Package – State Significant Development Application SSD-17647189, Revision F dated 29/07/2024.*

In my opinion, the document is consistent with the requirements in or under the terms of SSD-17647189 as applicable to the construction of the Development.

It is noted that the consultation requirements for the ESCP as required under Condition B35(b) have been completed, including consultation with BCS, Sydney Water and Council.

Please feel free to contact me if you require anything further or would like to discuss.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Ben Bracken", written over a light blue circular stamp.

**Ben Bracken**

Environmental Representative  
Access Logistics Park  
BBEnviro Pty Ltd

Phone: 0410 409 897  
Email: [ben.bracken@bbenviro.com.au](mailto:ben.bracken@bbenviro.com.au)

Our Reference: P-692875-V6Z7  
Contact: Gavin Cherry  
Telephone: (02) 4732 8125

27 May 2024

Barings Australia Asset Management  
Level 14  
60 Castlereagh Street,  
Sydney, NSW, 2000

ATTN: Philip Grech  
Email: [philip.grech@barings.com](mailto:philip.grech@barings.com)

Dear Philip Grech,

**Council Response to Condition of Consent – B35 – Erosion and Sediment Control Plan – SSD-17647189-PA-26 – Access Logistics Park – 884-928 Mamre Road, Kemps Creek, NSW, 2178**

I refer to the above referenced SSD Notice of Determination, specifically condition B28 of that consent which requires consultation to occur with Council.

Council staff have reviewed the documents submitted in relation to Condition B35 received 6 May 2024. The following advice is provided for the Applicant and the Department's consideration in relation to condition compliance:

- a) The Plans provided indicate the use of high efficiency sediment basins. The certifier and Department must ensure that these basins are maintained during the construction of the development, have suitable access to enable such maintenance, and are designed and audited by a CPESC as per the Technical Guideline for achieving Wianamatta South Creek stormwater management targets and as per the condition of consent.
- b) Council notes that the condition requires the CPESC appointment be approved by the Planning Secretary, and that the ESCP has been independently reviewed and verified by the Environmental Representative (ER) prior to submission to the Planning Secretary. Council recommended that that the earthworks and construction also be monitored by the ER for the implementation of the approved

ESCP. The Department or Applicant is requested to confirm that adequate arrangements are in place to achieve this.

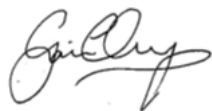
- c) Council recommended that consultation with EHG (BSC) and Sydney Water must be undertaken, and their requirements should be incorporated into the ESCP.
- d) With regard to the passively irrigated street trees, while the ESCP indicates that coir logs will be used to safeguard the trees from sediment, these must be audited and maintained during the construction stages. Council will not accept any assets that are compromised from the construction stages and recommend monitoring to ensure that the passively irrigated street trees are safeguarded. This monitoring should demonstrate that they are performing in a manner consistent with the design prior to hand over. The ESCP and CEMP must be amended to reflect this prior to condition satisfaction.

As advised previously, the Department of Planning, Housing and Infrastructure (as the applicable consent authority) must be suitably satisfied that the condition requirements are met.

Should you require any further information regarding the comments above, please contact Tim Gowing, Council's Senior Water Management Officer directly on (02) 4732 8341.

For general enquiries more broadly related to the development approval, please contact me on (02) 4732 8125.

Regards,



**Gavin Cherry**  
**Development Assessment Coordinator**



ER REVIEW Access Logistics Park

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Document        | Dam Dewatering Management Plan                  |
| Date Issued     |                                                 |
| Document Number | NA                                              |
| Date Due        |                                                 |
| Reviewer Name 1 | Ben Bracken (ER) (Version 04, dated 06/03/2024) |
| Reviewer Name 2 | Ben Bracken (ER) (Version 05, dated 03/05/2024) |
| Reviewer Name 3 | Ben Bracken (ER) (Version 06, dated 07/06/2024) |

| Environmental Representative (ER) - Review 01 (12/04/2024) |            |                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                                                                                                                                                                                                                                                   | Applicant                                                                                                                                                                       |    | ER - Review 02 (13/05/2024)                                                                                                                                                                                                                                                         |                 | Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    | ER - Review 03 (10/06/2024)                                                                                                                      |                 |
|------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Item                                                       | Condition  | Requirement                                                                                                                                                                                                                                                                                                                                                                                       | Status | Comments                                                                                                                                                                                                                                                                                                                          | Response Comments                                                                                                                                                               | By | Reviewer Close-out Comments                                                                                                                                                                                                                                                         | Response Status | Response Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | By | Reviewer Close-out Comments                                                                                                                      | Response Status |
| NSW CoA                                                    |            |                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 |    |                                                                                                                                                                                                                                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                  |                 |
| DDMP_01                                                    | B34        | Prior to commencement of earthworks the Applicant must prepare a Dam Decommissioning Plan, addressing the Guidelines for Controlled Activities on Waterfront Land, to the satisfaction of the Planning Secretary. The Dam Decommissioning Plan must form part of the CEMP required by Condition C2. The Applicant must implement the Dam Decommissioning Plan approved by the Planning Secretary. | Closed | Table 1 (Conditions of consent (SSD-17647189) provides a comprehensive response to this requirement, including a breakdown of the requirements under the Guidelines for Controlled Activities on Waterfront land and how they apply / do not apply to the proposed Development.                                                   | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_02                                                    | C1         | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:<br>a) detailed baseline data;                                                                                                                                                                                                                                                  | Closed | Addressed in Section 1, Section 3 and Figure 2                                                                                                                                                                                                                                                                                    | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_03                                                    | C1         | b) details of:<br>i. the relevant statutory requirements (including any relevant approval, licence or lease conditions);<br>ii. any relevant limits or performance measures and criteria; and<br>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                             | Closed | b)(i) Addressed in Section 1.4 - refer to several minor comments below under 'Improvements'<br>b)(ii) Addressed in Section 4.5<br>b)(iii) Addressed in Section 4.5                                                                                                                                                                | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_04                                                    | C1         | c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                                                                                                                                                                                                              | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_05                                                    | C1         | d) a program to monitor and report on the:<br>i. impacts and environmental performance of the development; and<br>ii. effectiveness of the management measures set out pursuant to paragraph (c) above;                                                                                                                                                                                           | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_06                                                    | C1         | 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;                                                                                                                                                                                              | Open   | Need to include a contingency for when water quality deteriorates during dewatering. Also, need to include constant monitoring of the discharge water to ensure water quality remains compliant. Minimum hourly testing while discharging. Dewatering only to be undertaken whilst being supervised - no unsupervised dewatering. | Water quality testing section added into the DDMP (Section 4.2.1). Mitigation measures and controls added to Section 4.6 referencing water quality and monitoring requirements. | -  | Document has been updated to address this comment. It is noted that the discharge checklist includes 75 NTU which has been derived from NTU/TSS correlation, using 50mg/L TSS. Please confirm that this is the case. If 75 NTU is based on a correlation, include this in the text. | Open            | Need a graph or conversation correlation between 75 NTU and 50 Mg/L. Could you provide how we achieved that value. Burton Contractors comment (dated 22/05/2024): To determine the exact correlation between TSS and NTU will require sampling and laboratory testing. Burtons have adopted 50NTU as a safeguard to be under TSS < 50mg/L. Laboratory testing of water samples will be conducted prior to discharge to understand that the NTU and TSS correlation will be within the range of our assumptions.<br><br>DDMP (dated 07/06/2024) updated section 4.2.1 Water quality testing. | -  | Noted. Section 4.2 (Water disbursement and sediment control) and Section 4.2.1 (Water quality testing) has been updated to address this comment. | Closed          |
| DDMP_07                                                    | C1         | f) a program to investigate and implement ways to improve the environmental performance of the development over time;                                                                                                                                                                                                                                                                             | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_08                                                    | C1         | g) a protocol for managing and reporting any:<br>i. incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);<br>ii. complaint;<br>iii. failure to comply with statutory requirements; and                                                                                                                              | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_09                                                    | C1         | h) a protocol for periodic review of the plan.                                                                                                                                                                                                                                                                                                                                                    | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_10                                                    | C3         | C3. As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:                                                                                                                                                                                                                                                                                    | Open   | Please include this condition also within Table 1                                                                                                                                                                                                                                                                                 | Table 1 has been revised.                                                                                                                                                       | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_11                                                    | C3         | (c) Dam Decommissioning Plan (see Condition B34);                                                                                                                                                                                                                                                                                                                                                 | Open   | Please include this condition also within Table 1                                                                                                                                                                                                                                                                                 | Table 1 has been revised.                                                                                                                                                       | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_12                                                    | C4         | The Applicant must:<br>(a) not commence earthworks, dam dewatering or construction of the development until the CEMP is approved by the Planning Secretary; and                                                                                                                                                                                                                                   | Open   | Please include this condition also within Table 1                                                                                                                                                                                                                                                                                 | Table 1 has been revised.                                                                                                                                                       | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| DDMP_13                                                    | Appendix 3 | Need to also include the mitigation measures / requirements detailed in Appendix 3 of the CoA - noting that CoA A2 requires this.                                                                                                                                                                                                                                                                 | Closed | No applicable Appendix 3 requirements in relation to Dam Decommissioning                                                                                                                                                                                                                                                          | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA | NA                                                                                                                                               | Closed          |
| ER Mitigation measures                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 |    |                                                                                                                                                                                                                                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                  |                 |

| Environmental Representative (ER) - Review 01 (12/04/2024) |             |                                                                                                                                                                                                                                                |        |                                                                                                                                                                                                                                                                                                                                                                               | Applicant                                                                                                                                                                                                                                  |    | ER - Review 02 (13/05/2024)                                                                                                                                                                             |                 | Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    | ER - Review 03 (10/06/2024)              |                 |
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| Item                                                       | Condition   | Requirement                                                                                                                                                                                                                                    | Status | Comments                                                                                                                                                                                                                                                                                                                                                                      | Response Comments                                                                                                                                                                                                                          | By | Reviewer Close-out Comments                                                                                                                                                                             | Response Status | Response Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | By | Reviewer Close-out Comments              | Response Status |
| DDMP_14                                                    | Table 60    | Mitigating prescribed biodiversity impacts - Dam dewatering is to be undertaken to ensure that any fauna within the dams is salvaged and relocated (an ecologist would only be required on site when dam water levels are below 1/3 capacity). | Closed | Addressed generally in this plan                                                                                                                                                                                                                                                                                                                                              | NA                                                                                                                                                                                                                                         | NA | NA                                                                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA | NA                                       | Closed          |
| Updated Management Measures                                |             |                                                                                                                                                                                                                                                |        |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                            |    |                                                                                                                                                                                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                                          |                 |
| DDMP_15                                                    | NA          | NA                                                                                                                                                                                                                                             | Closed | No applicable requirements in relation to Dam Decommissioning                                                                                                                                                                                                                                                                                                                 | NA                                                                                                                                                                                                                                         | NA | NA                                                                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA | NA                                       | Closed          |
| Improvements                                               |             |                                                                                                                                                                                                                                                |        |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                            |    |                                                                                                                                                                                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                                          |                 |
| DDMP_16                                                    | General     | Stormwater discharge location                                                                                                                                                                                                                  | Open   | It is understood that the water will be discharged via the stormwater channel. Please include this discharge location on a plan - this should be made clear.                                                                                                                                                                                                                  | DDMP updated to include reference to plan C200 and C201. Dam dewatering area and flow direction added to Figure 2.                                                                                                                         | -  | The drawing references and also the ESCP included in the document are superseded by the plans prepared by Ochre Environmental Management. Review and update all reference to ERSED plans as applicable. | Open            | ESCP_P104_ALTIS SSD 17647189-ESCP-Rev B_050524<br>Burton Contractors comment (dated 22/05/2024):<br>- ESCP will be updated in Appendices 1 & 2 (see attached most current ESCP_03. ESCP Rev C (28052024))<br>- The following DDMP Rev 1 (dated 3 May 2024) sections will also be updated:<br>- Section 2.1 Desktop Research point 2 and 3;<br>- Section 4.1 Method of Dewatering;<br>- Section 4.2 Water Disbursement and Sediment Control;<br>- Section 4.6 Mitigation Measures and Controls Table 5;<br>- References; and<br>- Any other locations in the DDMP.<br><br>DDMP (dated 07/06/2024) updated all relevant references and updated information as relevant. | -  | Document updated to address this comment | Closed          |
| DDMP_17                                                    | Table 1     | Condition of consent (SSD-17647189)                                                                                                                                                                                                            | Open   | Noted that 'Bois recommendation' column of Table 1 for Condition B34, it notes that the Dam Decommissioning Plan (referenced herein as a Dam Dewatering Management Plan) has been prepared as a recommendation of 884-928 Mamre Road, Kemps Creek. Include here also that the plan is required under the Conditions of Approval.                                              | Table 1 has been revised.                                                                                                                                                                                                                  | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA | NA                                       | Closed          |
| DDMP_18                                                    | Section 3.2 | Vegetation communities                                                                                                                                                                                                                         | Open   | This section includes a cross reference to the 'Weed Eradication and Management Plan (Biosis, 2022c) - where is this plan and does it form part of the CEMP?                                                                                                                                                                                                                  | Reference to Weed Eradication and Management Plan to be removed. Location and management requirements for priority weeds included in DDMP Section 3.2.1. Weed Eradication and Management Plan provided to Burton.                          | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA | NA                                       | Closed          |
| DDMP_19                                                    | Section 4   | Dam dewatering process                                                                                                                                                                                                                         | Open   | The second paragraph notes that flocculation of the dams would be achieved using gypsum, however the first paragraph of Section 4.1 (Method of dewatering) includes the use of a fish-safe flocculating agent such as 'Aquatic Clear Dam'. Please clarify.                                                                                                                    | Section 4 revised to focus on the fish-safe flocculating agent. Text moved from below Section 4 header to other appropriate sections.                                                                                                      | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA | NA                                       | Closed          |
| DDMP_20                                                    | Section 4.2 | Water disbursement and sediment control                                                                                                                                                                                                        | Open   | Second paragraph states the following:<br><br>In addition, any discharge water quality criteria set by Council for discharge into receiving infrastructure must be adhered to, this may require the collection of water quality samples prior to dewatering occurring.<br><br>Do we not know this already? These details should be known and required, included in this plan. | DDMP revised, adding Section 4.2.1, with Burton testing limits, including:<br>•NTU: <75<br>•pH: 6.5– 8.5<br>•TSS: <50 mg/L<br>Mitigation measures and controls added to Section 4.6 referencing water quality and monitoring requirements. | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA | NA                                       | Closed          |
| DDMP_21                                                    | Section 4.2 | Water disbursement and sediment control                                                                                                                                                                                                        | Open   | First paragraph below Table 3 states:<br><br>Prior to the commencement of the dam dewatering, suitable sediment and erosion controls are to be established around receiving infrastructure.<br><br>This detail should be known and included on the ERSED plan.                                                                                                                | DDMP updated to include reference to plan C200 and C201.                                                                                                                                                                                   | -  | Refer to DDMP_16.                                                                                                                                                                                       | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA | NA                                       | Closed          |
| DDMP_22                                                    | Section 4.3 | Environmental protection measures                                                                                                                                                                                                              | Open   | With regards to Stage 3 of the dewatering process, provide further detail with regards to the relocation site - noted that the locations are shown on Figure 1, however this figure / plan lacks detail.                                                                                                                                                                      | Additional pages in a series added to Figure 1 to match Burton relocation sites. South Creek and Werrington Creek added, Yandhai removed.                                                                                                  | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA | NA                                       | Closed          |

| Environmental Representative (ER) - Review 01 (12/04/2024) |               |                                      |        |                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicant                                                                                                                                                                                                                                  |    | ER - Review 02 (13/05/2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                              |    | ER - Review 03 (10/06/2024)                                                                                                                                                                                                                                                                                                                                 |                 |
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| Item                                                       | Condition     | Requirement                          | Status | Comments                                                                                                                                                                                                                                                                                                                                                                                                                   | Response Comments                                                                                                                                                                                                                          | By | Reviewer Close-out Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Response Status | Response Comments                                                                                                                                                                                                                                                                                                                                                                                                                                      | By | Reviewer Close-out Comments                                                                                                                                                                                                                                                                                                                                 | Response Status |
| DDMP_23                                                    | Section 4.3.1 | Consideration for individual dams    | Open   | In the event that a channel is dug into the dam wall on the western side of Dam A, how will the water quality be checked to confirm water quality criteria continues to be met? How frequently? Also, in the event that water quality deteriorates, and no longer satisfies the discharge criteria, what steps will be implemented?                                                                                        | DDMP revised to include Section 4.2.1. Mitigation measures and controls added to Section 4.6 referencing water quality and monitoring requirements.                                                                                        | -  | Noted, however as per initial comment, once the dam wall is compromised, water release would be difficult to contain / hold back. As the dam water levels decrease, it would be expected that water quality (TSS / Turbidity) would also increase.<br><br>In this case, how would the dewatering process be managed to ensure high sediment water is not released through the trench / breach in the dam wall?                                                                               | Open            | Burton Contractors comment (dated 22/05/2024): All water will be pumped from the dam under a controlled process, rather than breach of the dam wall. Biosis to delete section 4.3.1 of the current Dam Dewatering Management Plan.<br><br>DDMP (dated 07/06/2024) The method to employ controlled breach has been removed. The remaining sections of 4.3.1 were still relevant and have been retained but moved within the stage two text for clarity. | -  | Document updated to address this comment                                                                                                                                                                                                                                                                                                                    | Closed          |
| DDMP_24                                                    | Section 4.5   | Reporting                            | Open   | How will water quality testing / monitoring be recorded / reported?                                                                                                                                                                                                                                                                                                                                                        | DDMP revised to include Section 4.2.1. Mitigation measures and controls added to Section 4.6 referencing water quality and monitoring requirements. Discharge water quality checklist added to Appendix 4 and referenced in Section 4.2.1. | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_25                                                    | General       | Training                             | Open   | Include a section to address training / induction into this plan. As a minimum, site personnel will need to be made clear of the steps / requirements in this plan, and also the process to implement in the event of a fauna find.                                                                                                                                                                                        | Induction requirements added to Section 4.4.                                                                                                                                                                                               | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_26                                                    | General       | Dam backfilling and sediment removal | Open   | Based on the ERSED Plan attached as Appendix 1, it is understood that Dam A and Dam C will be retained and used for sediment basins on site, whilst Dam B will be backfilled. This needs to be made clear somewhere in the document - i.e. Dam A and Dam C to be dewatered, followed by removal of sediments and then .... set-up as a sediment basin? Dam B to be dewatered (and sediments removed?) and then backfilled. | DDMP Section 4.2 revised with additional information.                                                                                                                                                                                      | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_27                                                    | General       | Sediment management                  | Open   | How will the removed sediments from the basins be managed on site?                                                                                                                                                                                                                                                                                                                                                         | DDMP Section 4.2 revised with additional information as per Burton advice.                                                                                                                                                                 | -  | Noted that the following has been recommended by Biosis.<br><br>Biosis recommends testing silt and/or sediments for contaminants, pollutants and/or heavy metals following their removal from the dams.<br><br>Please also include what the testing will aim to achieve - i.e. to determine suitability for reuse of the material on site and / or waste classification for off-site disposal if required?                                                                                   | Open            | Burton Contractors comment (dated 22/05/2024): Table 5 Mitigation measures and controls relevant to dam dewatering number 16 Silt / Sediment Testing will only be required if disposal of material off-site. No test on silt/sedimented unless there is an unexpected find. In this case, Unexpected Finds Protocol will be followed.<br><br>DDMP (dated 07/06/2024) Section 4.2 and Table 5 in Section 4.6 updated.                                   | -  | Noted. Table 5 has been updated accordingly.                                                                                                                                                                                                                                                                                                                | Closed          |
| DDMP_28                                                    | General       | Waste management                     | Open   | Please also include how any rubbish / debris will be managed? Probably as simple as stockpiling / segregating on site (if encountered), but needs to be included as a contingency.                                                                                                                                                                                                                                         | DDMP Section 4.2 revised with additional information as per Burton advice.                                                                                                                                                                 | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_29                                                    | General       | Mitigation measures                  | Open   | Consider including a table with consolidated mitigation measures and controls - it is noted that there are a few mitigation measures / requirement embedded in the text of the document which may get missed. For example - Section 3.2 includes the requirement for manual weed removal prior to dam dewatering.                                                                                                          | Mitigation measures and controls added to Section 4.6 as per Burton advice.                                                                                                                                                                | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_30                                                    | General       | Mitigation measures                  | Open   | Further to the above, the consolidated table of mitigation measures and controls should include timing as well as responsibilities - with specific roles from the Contractor / Ecologist being identified.                                                                                                                                                                                                                 | Mitigation measures and controls added to Section 4.6 as per Burton advice. Timing added to the table to adhere to ER request.                                                                                                             | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_31                                                    | General       | NA                                   | NA     | NA                                                                                                                                                                                                                                                                                                                                                                                                                         | NA                                                                                                                                                                                                                                         | NA | It is understood based on the text that the water from Dam A will be released to the west of Dam A. Whilst the text states that the water may enter an existing culvert along Mamre Road, it is unclear where this culvert drains to. Please update the plan with this detail - does the culvert drain to a waterway or property? Another dam?<br><br>Is there a risk of down-gradient flooding?                                                                                             | Open            | DDMP (dated 07/06/2024) Section 4.2 and Table 5 in Section 4.6 updated.                                                                                                                                                                                                                                                                                                                                                                                | -  | Noted. Section 4.2 (Water disbursement and sediment removal), and Table 5 (Mitigation measures) has been updated to address this comment, including implementation of frequent inspection and consultation with down-gradient property during discharge.<br><br>In addition, the documented has been updated with Appendix 3 - Dam A Dewatering assessment. | Closed          |
| DDMP_32                                                    | General       | NA                                   | NA     | NA                                                                                                                                                                                                                                                                                                                                                                                                                         | NA                                                                                                                                                                                                                                         | NA | With regards to ERSED controls down-gradient of the dewatering activities, the DDMP includes several references to the Project ERSED plans. It is noted however that the Ochre ERSED plans only include a sediment fence along the site boundary with no further details. Is this adequate?<br><br>Consider including a requirement for a site dewatering specific ERSED plan to be prepared by the CPESC prior to commencement of dewatering works. If adopted, update Table 5 accordingly. | Open            | DDMP (dated 07/06/2024) Section 4.6 Table 5 updated.                                                                                                                                                                                                                                                                                                                                                                                                   | -  | Document updated to address this comment                                                                                                                                                                                                                                                                                                                    | Closed          |



| Environmental Representative (ER) - Review 01 (12/04/2024) |           |             |        |          | Applicant         |    | ER - Review 02 (13/05/2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | Applicant                                                                                                                                                       |    | ER - Review 03 (10/06/2024)              |                 |
|------------------------------------------------------------|-----------|-------------|--------|----------|-------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------|-----------------|
| Item                                                       | Condition | Requirement | Status | Comments | Response Comments | By | Reviewer Close-out Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Response Status | Response Comments                                                                                                                                               | By | Reviewer Close-out Comments              | Response Status |
| DDMP_33                                                    | General   | NA          | NA     | NA       | NA                | NA | <p>Include a requirement for routine inspections of the ground / area to the west of Dam A during dewatering. Is there a potential for water run-off to flow onto Mamre Road? This is my main concern. If so, there needs to be a contingency added to stop dewatering.</p> <p>Need to include an inspection regime to ensure there are no down-gradient impacts. The inspection should also confirm that ERSSED controls are working effectively and there is no scouring / resuspension of sediments.</p> <p>Update Table 5 accordingly</p> | Open            | <p>Burton Contractors comment (dated 22/05/2024): Please refer to above mentioned Item DDMP_32.</p> <p>DDMP (dated 07/06/2024) Section 4.6 Table 5 updated.</p> | -  | Document updated to address this comment | Closed          |



4 September 2024

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**By Email:** [amurr@projectstrategy.com.au](mailto:amurr@projectstrategy.com.au)

Dear Anthony,

**SSD-17647189 – 884-928 Mamre Road, Kemps Creek (Access Logistics Park)**  
**Environmental Representative (ER) – Endorsement of the Dam Dewatering Management Plan (DDMP)**

Pursuant to SSD-17647189 Condition A36(e)(i), I have reviewed the following document as required under SSD-17647189 Condition C3(c):

- *884-928 Mamre Road, Kemps Creek – Dam Dewatering Management Plan, Final Version 07, dated 08/08/2024.*

In my opinion, the document is consistent with the requirements in or under the terms of SSD-17647189 as applicable to the construction of the Development.

Refer to Attachment 1 for the ER Comment Register containing further details on the conditions of approval and other requirements applicable to the DDMP, in addition to the associated ER review comments and close-out.

Please feel free to contact me if you require anything further or would like to discuss.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Ben Bracken", written over a light blue circular stamp.

**Ben Bracken**

Environmental Representative  
Access Logistics Park  
BBEnviro Pty Ltd

Phone: 0410 409 897  
Email: [ben.bracken@bbenviro.com.au](mailto:ben.bracken@bbenviro.com.au)

**Attachment 1:** ER Comment Register - DDMP

ER REVIEWAccess Logistics Park

|                 |                                                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Document        | Dam Dewatering Management Plan                                                                                                                                                    |
| Date Issued     |                                                                                                                                                                                   |
| Document Number | NA                                                                                                                                                                                |
| Date Due        |                                                                                                                                                                                   |
| Reviewer Name 1 | Ben Bracken (ER) (Version 04, dated 05/03/2024)                                                                                                                                   |
| Reviewer Name 2 | Ben Bracken (ER) (Version 05, dated 03/05/2024)                                                                                                                                   |
| Reviewer Name 3 | Ben Bracken (ER) (Version 06, dated 07/06/2024)                                                                                                                                   |
| Reviewer Name 4 | Ben Bracken (ER) (Version 07, dated 08/08/2024) noting that the changes made in this revision are in response to DPHI review comments and therefore not captured in this register |

| Environmental Representative (ER) - Review 01 (12/04/2024) |           |                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                                                                                                                                                                                                                                                   | Applicant                                                                                                                                                                       |    | ER - Review 02 (13/05/2024)                                                                                                                                                                                                                                                         |                 | Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    | ER - Review 03 (10/06/2024)                                                                                                                      |                 |
|------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Item                                                       | Condition | Requirement                                                                                                                                                                                                                                                                                                                                                                                       | Status | Comments                                                                                                                                                                                                                                                                                                                          | Response Comments                                                                                                                                                               | By | Reviewer Close-out Comments                                                                                                                                                                                                                                                         | Response Status | Response Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | By | Reviewer Close-out Comments                                                                                                                      | Response Status |
| NSW CoA                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                 |    |                                                                                                                                                                                                                                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                                                                                  |                 |
| DDMP_01                                                    | B34       | Prior to commencement of earthworks the Applicant must prepare a Dam Decommissioning Plan, addressing the Guidelines for Controlled Activities on Waterfront Land, to the satisfaction of the Planning Secretary. The Dam Decommissioning Plan must form part of the CEMP required by Condition C2. The Applicant must implement the Dam Decommissioning Plan approved by the Planning Secretary. | Closed | Table 1 (Conditions of consent (SSD-17647189) provides a comprehensive response to this requirement, including a breakdown of the requirements under the Guidelines for Controlled Activities on Waterfront land and how they apply / do not apply to the proposed Development.                                                   | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_02                                                    | C1        | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:<br>a) detailed baseline data;                                                                                                                                                                                                                                                  | Closed | Addressed in Section 1, Section 3 and Figure 2                                                                                                                                                                                                                                                                                    | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_03                                                    | C1        | b) details of:<br>i. the relevant statutory requirements (including any relevant approval, licence or lease conditions);<br>ii. any relevant limits or performance measures and criteria; and<br>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                             | Closed | b)(i) Addressed in Section 1.4 - refer to several minor comments below under 'Improvements'<br>b)(ii) Addressed in Section 4.5<br>b)(iii) Addressed in Section 4.5                                                                                                                                                                | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_04                                                    | C1        | c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                                                                                                                                                                                                              | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_05                                                    | C1        | d) a program to monitor and report on the:<br>i. impacts and environmental performance of the development; and<br>ii. effectiveness of the management measures set out pursuant to paragraph (c) above;                                                                                                                                                                                           | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_06                                                    | C1        | 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;                                                                                                                                                                                              | Open   | Need to include a contingency for when water quality deteriorates during dewatering. Also, need to include constant monitoring of the discharge water to ensure water quality remains compliant. Minimum hourly testing while discharging. Dewatering only to be undertaken whilst being supervised - no unsupervised dewatering. | Water quality testing section added into the DDMP (Section 4.2.1). Mitigation measures and controls added to Section 4.6 referencing water quality and monitoring requirements. | -  | Document has been updated to address this comment. It is noted that the discharge checklist includes 75 NTU which has been derived from NTU/TSS correlation, using 50mg/L TSS. Please confirm that this is the case. If 75 NTU is based on a correlation, include this in the text. | Open            | Need a graph or conversation correlation between 75 NTU and 50 Mg/L. Could you provide how we achieved that value. Burton Contractors comment (dated 22/05/2024): To determine the exact correlation between TSS and NTU will require sampling and laboratory testing. Burtons have adopted 50NTU as a safeguard to be under TSS < 50mg/L. Laboratory testing of water samples will be conducted prior to discharge to understand that the NTU and TSS correlation will be within the range of our assumptions. DDMP (dated 07/06/2024) updated section 4.2.1 Water quality testing. | -  | Noted. Section 4.2 (Water disbursement and sediment control) and Section 4.2.1 (Water quality testing) has been updated to address this comment. | Closed          |
| DDMP_07                                                    | C1        | f) a program to investigate and implement ways to improve the environmental performance of the development over time;                                                                                                                                                                                                                                                                             | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_08                                                    | C1        | g) a protocol for managing and reporting any:<br>i. incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);<br>ii. complaint;<br>iii. failure to comply with statutory requirements; and                                                                                                                              | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_09                                                    | C1        | h) a protocol for periodic review of the plan.                                                                                                                                                                                                                                                                                                                                                    | Closed | Addressed in Section 4                                                                                                                                                                                                                                                                                                            | NA                                                                                                                                                                              | NA | NA                                                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_10                                                    | C3        | C3. As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:                                                                                                                                                                                                                                                                                    | Open   | Please include this condition also within Table 1                                                                                                                                                                                                                                                                                 | Table 1 has been revised.                                                                                                                                                       | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_11                                                    | C3        | (c) Dam Decommissioning Plan (see Condition B34);                                                                                                                                                                                                                                                                                                                                                 | Open   | Please include this condition also within Table 1                                                                                                                                                                                                                                                                                 | Table 1 has been revised.                                                                                                                                                       | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |
| DDMP_12                                                    | C4        | The Applicant must:<br>(a) not commence earthworks, dam dewatering or construction of the development until the CEMP is approved by the Planning Secretary; and                                                                                                                                                                                                                                   | Open   | Please include this condition also within Table 1                                                                                                                                                                                                                                                                                 | Table 1 has been revised.                                                                                                                                                       | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                                                                                                                               | Closed          |



| Environmental Representative (ER) - Review 01 (12/04/2024) |             |                                                                                                                                                                                                                                                |        |                                                                                                                                                                                                                                                                                                                                                                               | Applicant                                                                                                                                                                                                                                   |    | ER - Review 02 (13/05/2024)                                                                                                                                                                             |                 | Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    | ER - Review 03 (10/06/2024)              |                 |
|------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------|-----------------|
| Item                                                       | Condition   | Requirement                                                                                                                                                                                                                                    | Status | Comments                                                                                                                                                                                                                                                                                                                                                                      | Response Comments                                                                                                                                                                                                                           | By | Reviewer Close-out Comments                                                                                                                                                                             | Response Status | Response Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | By | Reviewer Close-out Comments              | Response Status |
| DDMP_13                                                    | Appendix 3  | Need to also include the mitigation measures / requirements detailed in Appendix 3 of the CoA - noting that CoA A2 requires this.                                                                                                              | Closed | No applicable Appendix 3 requirements in relation to Dam Decommissioning                                                                                                                                                                                                                                                                                                      | NA                                                                                                                                                                                                                                          | NA | NA                                                                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                       | Closed          |
| EIS Mitigation measures                                    |             |                                                                                                                                                                                                                                                |        |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                          |                 |
| DDMP_14                                                    | Table 60    | Mitigating prescribed biodiversity impacts - Dam dewatering is to be undertaken to ensure that any fauna within the dams is salvaged and relocated (an ecologist would only be required on site when dam water levels are below 1/3 capacity). | Closed | Addressed generally in this plan                                                                                                                                                                                                                                                                                                                                              | NA                                                                                                                                                                                                                                          | NA | NA                                                                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                       | Closed          |
| Updated Management Measures                                |             |                                                                                                                                                                                                                                                |        |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                          |                 |
| DDMP_15                                                    | NA          | NA                                                                                                                                                                                                                                             | Closed | No applicable requirements in relation to Dam Decommissioning                                                                                                                                                                                                                                                                                                                 | NA                                                                                                                                                                                                                                          | NA | NA                                                                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                       | Closed          |
| Improvements                                               |             |                                                                                                                                                                                                                                                |        |                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                          |                 |
| DDMP_16                                                    | General     | Stormwater discharge location                                                                                                                                                                                                                  | Open   | It is understood that the water will be discharged via the stormwater channel. Please include this discharge location on a plan - this should be made clear.                                                                                                                                                                                                                  | DDMP updated to include reference to plan C200 and C201. Dam dewatering area and flow direction added to Figure 2.                                                                                                                          | -  | The drawing references and also the ESCP included in the document are superseded by the plans prepared by Ochre Environmental Management. Review and update all reference to ERSED plans as applicable. | Open            | ESCP_P104_ALTIS_SSD 17647189-ESC-Rev B_050524<br>Burton Contractors comment (dated 22/05/2024):<br>- ESCP will be updated in Appendices 1 & 2 (see attached most current ESCP_03. ESCP Rev C (28052024))<br>- The following DDMP Rev 1 (dated 3 May 2024) sections will also be updated:<br>- Section 2.1 Desktop Research point 2 and 3;<br>- Section 4.1 Method of Dewatering;<br>- Section 4.2 Water Disbursement and Sediment Control;<br>- Section 4.6 Mitigation Measures and Controls Table 5;<br>- References; and<br>- Any other locations in the DDMP.<br><br>DDMP (dated 07/06/2024) updated all relevant references and updated information as relevant. | -  | Document updated to address this comment | Closed          |
| DDMP_17                                                    | Table 1     | Condition of consent (SSD-17647189)                                                                                                                                                                                                            | Open   | Noted that 'Biosis recommendation' column of Table 1 for Condition B34, it notes that the Dam Decommissioning Plan (referenced herein as a Dam Dewatering Management Plan) has been prepared as a recommendation of 884-928 Mamre Road, Kemps Creek. Include here also that the plan is required under the Conditions of Approval.                                            | Table 1 has been revised.                                                                                                                                                                                                                   | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                       | Closed          |
| DDMP_18                                                    | Section 3.2 | Vegetation communities                                                                                                                                                                                                                         | Open   | This section includes a cross reference to the 'Weed Eradication and Management Plan (Biosis, 2022c) - where is this plan and does it form part of the CEMP?                                                                                                                                                                                                                  | Reference to Weed Eradication and Management Plan to be removed. Location and management requirements for priority weeds included in DDMP Section 3.2.1. Weed Eradication and Management Plan provided to Burton.                           | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                       | Closed          |
| DDMP_19                                                    | Section 4   | Dam dewatering process                                                                                                                                                                                                                         | Open   | The second paragraph notes that flocculation of the dams would be achieved using gypsum, however the first paragraph of Section 4.1 (Method of dewatering) includes the use of a fish-safe flocculating agent such as 'Aquatic Clear Dam'. Please clarify.                                                                                                                    | Section 4 revised to focus on the fish-safe flocculating agent. Text moved from below Section 4 header to other appropriate sections.                                                                                                       | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                       | Closed          |
| DDMP_20                                                    | Section 4.2 | Water disbursement and sediment control                                                                                                                                                                                                        | Open   | Second paragraph states the following:<br><br>In addition, any discharge water quality criteria set by Council for discharge into receiving infrastructure must be adhered to, this may require the collection of water quality samples prior to dewatering occurring.<br><br>Do we not know this already? These details should be known and required, included in this plan. | DDMP revised, adding Section 4.2.1, with Burton testing limits, including:<br>•NTU: <75<br>•pH: 6.5 – 8.5<br>•TSS: <50 mg/L<br>Mitigation measures and controls added to Section 4.6 referencing water quality and monitoring requirements. | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                       | Closed          |
| DDMP_21                                                    | Section 4.2 | Water disbursement and sediment control                                                                                                                                                                                                        | Open   | First paragraph below Table 3 states:<br><br>Prior to the commencement of the dam dewatering, suitable sediment and erosion controls are to be established around receiving infrastructure.<br><br>This detail should be known and included on the ERSED plan.                                                                                                                | DDMP updated to include reference to plan C200 and C201.                                                                                                                                                                                    | -  | Refer to DDMP_16.                                                                                                                                                                                       | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                       | Closed          |
| DDMP_22                                                    | Section 4.3 | Environmental protection measures                                                                                                                                                                                                              | Open   | With regards to Stage 3 of the dewatering process, provide further detail with regards to the relocation site - noted that the locations are shown on Figure 1, however this figure / plan lacks detail.                                                                                                                                                                      | Additional pages in a series added to Figure 1 to match Burton relocation sites. South Creek and Werrington Creek added, Yandhai removed.                                                                                                   | -  | Document has been updated to address this comment.                                                                                                                                                      | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA | NA                                       | Closed          |

| Environmental Representative (ER) - Review 01 (12/04/2024) |               |                                      |        |                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicant                                                                                                                                                                                                                                  |    | ER - Review 02 (13/05/2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                              |    | ER - Review 03 (10/06/2024)                                                                                                                                                                                                                                                                                                                                 |                 |
|------------------------------------------------------------|---------------|--------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Item                                                       | Condition     | Requirement                          | Status | Comments                                                                                                                                                                                                                                                                                                                                                                                                                   | Response Comments                                                                                                                                                                                                                          | By | Reviewer Close-out Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Response Status | Response Comments                                                                                                                                                                                                                                                                                                                                                                                                                                      | By | Reviewer Close-out Comments                                                                                                                                                                                                                                                                                                                                 | Response Status |
| DDMP_23                                                    | Section 4.3.1 | Consideration for individual dams    | Open   | In the event that a channel is dug into the dam wall on the western side of Dam A, how will the water quality be checked to confirm water quality criteria continues to be met? How frequently? Also, in the event that water quality deteriorates, and no longer satisfies the discharge criteria, what steps will be implemented?                                                                                        | DDMP revised to include Section 4.2.1. Mitigation measures and controls added to Section 4.6 referencing water quality and monitoring requirements.                                                                                        | -  | Noted, however as per initial comment, once the dam wall is compromised, water release would be difficult to contain / hold back. As the dam water levels decrease, it would be expected that water quality (TSS / Turbidity) would also increase.<br><br>In this case, how would the dewatering process be managed to ensure high sediment water is not released through the trench / breach in the dam wall?                                                                               | Open            | Burton Contractors comment (dated 22/05/2024): All water will be pumped from the dam under a controlled process, rather than breach of the dam wall. Biosis to delete section 4.3.1 of the current Dam Dewatering Management Plan.<br><br>DDMP (dated 07/06/2024) The method to employ controlled breach has been removed. The remaining sections of 4.3.1 were still relevant and have been retained but moved within the stage two text for clarity. | -  | Document updated to address this comment                                                                                                                                                                                                                                                                                                                    | Closed          |
| DDMP_24                                                    | Section 4.5   | Reporting                            | Open   | How will water quality testing / monitoring be recorded / reported?                                                                                                                                                                                                                                                                                                                                                        | DDMP revised to include Section 4.2.1. Mitigation measures and controls added to Section 4.6 referencing water quality and monitoring requirements. Discharge water quality checklist added to Appendix 4 and referenced in Section 4.2.1. | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_25                                                    | General       | Training                             | Open   | Include a section to address training / induction into this plan. As a minimum, site personnel will need to be made clear of the steps / requirements in this plan, and also the process to implement in the event of a fauna find.                                                                                                                                                                                        | Induction requirements added to Section 4.4.                                                                                                                                                                                               | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_26                                                    | General       | Dam backfilling and sediment removal | Open   | Based on the ERSED Plan attached as Appendix 1, it is understood that Dam A and Dam C will be retained and used for sediment basins on site, whilst Dam B will be backfilled. This needs to be made clear somewhere in the document - i.e. Dam A and Dam C to be dewatered, followed by removal of sediments and then .... set-up as a sediment basin? Dam B to be dewatered (and sediments removed?) and then backfilled. | DDMP Section 4.2 revised with additional information.                                                                                                                                                                                      | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_27                                                    | General       | Sediment management                  | Open   | How will the removed sediments from the basins be managed on site?                                                                                                                                                                                                                                                                                                                                                         | DDMP Section 4.2 revised with additional information as per Burton advice.                                                                                                                                                                 | -  | Noted that the following has been recommended by Biosis.<br><br>Biosis recommends testing silt and/or sediments for contaminants, pollutants and/or heavy metals following their removal from the dams.<br><br>Please also include what the testing will aim to achieve - i.e. to determine suitability for reuse of the material on site and / or waste classification for off-site disposal if required?                                                                                   | Open            | Burton Contractors comment (dated 22/05/2024): Table 5 Mitigation measures and controls relevant to dam dewatering number 16 Silt / Sediment Testing will only be required if disposal of material off-site. No test on silt/sedimented unless there is an unexpected find. In this case, Unexpected Finds Protocol will be followed.<br><br>DDMP (dated 07/06/2024) Section 4.2 and Table 5 in Section 4.6 updated.                                   | -  | Noted. Table 5 has been updated accordingly.                                                                                                                                                                                                                                                                                                                | Closed          |
| DDMP_28                                                    | General       | Waste management                     | Open   | Please also include how any rubbish / debris will be managed? Probably as simple as stockpiling / segregating on site (if encountered), but needs to be included as a contingency.                                                                                                                                                                                                                                         | DDMP Section 4.2 revised with additional information as per Burton advice.                                                                                                                                                                 | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_29                                                    | General       | Mitigation measures                  | Open   | Consider including a table with consolidated mitigation measures and controls - it is noted that there are a few mitigation measures / requirement embedded in the text of the document which may get missed. For example - Section 3.2 includes the requirement for manual weed removal prior to dam dewatering.                                                                                                          | Mitigation measures and controls added to Section 4.6 as per Burton advice.                                                                                                                                                                | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_30                                                    | General       | Mitigation measures                  | Open   | Further to the above, the consolidated table of mitigation measures and controls should include timing as well as responsibilities - with specific roles from the Contractor / Ecologist being identified.                                                                                                                                                                                                                 | Mitigation measures and controls added to Section 4.6 as per Burton advice. Timing added to the table to adhere to ER request.                                                                                                             | -  | Document has been updated to address this comment.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NA                                                                                                                                                                                                                                                                                                                                                          | Closed          |
| DDMP_31                                                    | General       | NA                                   | NA     | NA                                                                                                                                                                                                                                                                                                                                                                                                                         | NA                                                                                                                                                                                                                                         | NA | It is understood based on the text that the water from Dam A will be released to the west of Dam A. Whilst the text states that the water may enter an existing culvert along Mamre Road, it is unclear where this culvert drains to. Please update the plan with this detail - does the culvert drain to a waterway or property? Another dam?<br><br>Is there a risk of down-gradient flooding?                                                                                             | Open            | DDMP (dated 07/06/2024) Section 4.2 and Table 5 in Section 4.6 updated.                                                                                                                                                                                                                                                                                                                                                                                | -  | Noted. Section 4.2 (Water disbursement and sediment removal), and Table 5 (Mitigation measures) has been updated to address this comment, including implementation of frequent inspection and consultation with down-gradient property during discharge.<br><br>In addition, the documented has been updated with Appendix 3 - Dam A Dewatering assessment. | Closed          |
| DDMP_32                                                    | General       | NA                                   | NA     | NA                                                                                                                                                                                                                                                                                                                                                                                                                         | NA                                                                                                                                                                                                                                         | NA | With regards to ERSED controls down-gradient of the dewatering activities, the DDMP includes several references to the Project ERSED plans. It is noted however that the Ochre ERSED plans only include a sediment fence along the site boundary with no further details. Is this adequate?<br><br>Consider including a requirement for a site dewatering specific ERSED plan to be prepared by the CPESC prior to commencement of dewatering works. If adopted, update Table 5 accordingly. | Open            | DDMP (dated 07/06/2024) Section 4.6 Table 5 updated.                                                                                                                                                                                                                                                                                                                                                                                                   | -  | Document updated to address this comment                                                                                                                                                                                                                                                                                                                    | Closed          |

| Environmental Representative (ER) - Review 01 (12/04/2024) |           |             |        |          | Applicant         |    | ER - Review 02 (13/05/2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | Applicant                                                                                                                                                       |    | ER - Review 03 (10/06/2024)              |                 |
|------------------------------------------------------------|-----------|-------------|--------|----------|-------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------|-----------------|
| Item                                                       | Condition | Requirement | Status | Comments | Response Comments | By | Reviewer Close-out Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Response Status | Response Comments                                                                                                                                               | By | Reviewer Close-out Comments              | Response Status |
| DDMP_33                                                    | General   | NA          | NA     | NA       | NA                | NA | <p>Include a requirement for routine inspections of the ground / area to the west of Dam A during dewatering. Is there a potential for water run-off to flow onto Mamre Road? This is my main concern. If so, there needs to be a contingency added to stop dewatering.</p> <p>Need to include an inspection regime to ensure there are no down-gradient impacts. The inspection should also confirm that ERSSED controls are working effectively and there is no scouring / resuspension of sediments.</p> <p>Update Table 5 accordingly</p> | Open            | <p>Burton Contractors comment (dated 22/05/2024): Please refer to above mentioned Item DDMP_32.</p> <p>DDMP (dated 07/06/2024) Section 4.6 Table 5 updated.</p> | -  | Document updated to address this comment | Closed          |



3 September 2024

**Anthony Murr**  
**Associate Director**  
**Project Strategy**  
**PO Box 271**  
**SUTHERLAND NSW 1499**

**By Email:** [amurr@projectstrategy.com.au](mailto:amurr@projectstrategy.com.au)

Dear Anthony,

**SSD-17647189 – 884-928 Mamre Road, Kemps Creek (Access Logistics Park)**  
**Environmental Representative (ER) – Endorsement of the Construction Noise and Vibration**  
**Management Plan (CNVMP)**

Pursuant to SSD-17647189 Condition A36(e)(i), I have reviewed the following document as required under SSD-17647189 Condition C3(d):

- *Access Logistics Park, 884-928 Mamre Road, Kemps Creek, Construction Noise and Vibration Management Plan – Civil Works (SLR Ref. 610.031427.00002), Revision v2.0, dated 02/09/2024.*

In my opinion, the document is consistent with the requirements in or under the terms of SSD-17647189 as applicable to the construction of the Development.

Pursuant to Condition B60(a), endorsement of the appointed noise expert (Martin Davenport from SLR Consulting Australia) by the Planning Secretary was received via letter correspondence dated 21/08/2024 (DPHI Ref. SSD-17647189-PA-40) – see Attachment 1.

Refer to Attachment 2 for the ER Comment Register containing further details on the conditions of approval and other requirements applicable to the CNVMP, in addition to the associated ER review comments and close-out.

Please feel free to contact me if you require anything further or would like to discuss.

Yours sincerely,



**Ben Bracken**

Environmental Representative  
Access Logistics Park  
BBEnviro Pty Ltd

Phone: 0410 409 897  
Email: [ben.bracken@bbenviro.com.au](mailto:ben.bracken@bbenviro.com.au)

**Attachment 1:** DPHI letter correspondence re noise expert endorsement, dated 21/08/2024

**Attachment 2:** ER Comment Register - CNVMP

Philip Grech  
Development Manager  
Barings  
Level 19, 60 Castlereagh Street  
Sydney NSW 2000

21 August 2024

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Subject: Appointment of SLR Consulting Australia - Construction Noise & Vibration Management Plan

Dear Mr Grech

I refer to your request dated 15 August 2024, seeking Planning Secretary's endorsement of the appointment of Martin Davenport, SLR Consulting Australia under Schedule 2, Condition B60(a) of SSD-17647189.

The Department has reviewed the nomination and information you have provided and is satisfied that Martin Davenport, SLR Consulting Australia is suitably qualified and experienced. Accordingly, as nominee of the Planning Secretary, I endorse the appointment of Martin Davenport, SLR Consulting Australia as a suitably qualified and experienced noise expert.

Should you have any further enquiries, please contact Media Hakim, Industry Assessments, at the Department on (02) 9995 5684 or via [media.hakim@dpie.nsw.gov.au](mailto:media.hakim@dpie.nsw.gov.au).

Yours sincerely

A handwritten signature in blue ink, appearing to read "Lindsey Blecher".

Lindsey Blecher  
Team Leader  
Industry Assessments

as delegate of the Planning Secretary

ER REVIEW

Access Logistics Park

|          |                                                  |
|----------|--------------------------------------------------|
| Document | Construction Noise and Vibration Management Plan |
| Doc Ref  |                                                  |
| Doc Date |                                                  |

|                 |                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------|
| Reviewer Name 1 | Ben Braden (ER) (CNMMP Ver 0.1 (09/08/2024))                                                                                       |
| Reviewer Name 2 | Ben Braden (ER) (CNMMP Ver 0.2 (10/08/2024))                                                                                       |
| Reviewer Name 3 | Ben Braden (ER) (CNMMP Ver 1.0 (21/08/2024))                                                                                       |
| Reviewer Name 4 | Ben Braden (ER) (CNMMP Ver 2.0 (02/09/2024)) (changes made in response to DPHI review and therefore not captured in this register) |

| Environmental Representative (ER) - Review 01 (11/08/2024) |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Applicant                                                                                                                                       |     | ER - Review 02 (19/08/2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | Applicant                                                                                                                                                    |    | ER - Review 03 (21/08/2024)                                                                 |                 |
|------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------|-----------------|
| Item                                                       | Condition / Section | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Status | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Response Comments                                                                                                                               | By  | Reviewer Close-out Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Response Status | Response Comments                                                                                                                                            | By | Reviewer Close-out Comments                                                                 | Response Status |
| SSD-17647189                                               |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                                                                                                                                                              |    |                                                                                             |                 |
| CNMVP_01                                                   | A11                 | EVIDENCE OF CONSULTATION<br>A1.1. Where conditions of this consent require consultation with an identified party, the Applicant must:<br>(a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and<br>(b) provide details of the consultation undertaken including:<br>(i) the outcome of that consultation, matters resolved and unresolved; and<br>(ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.                                                                                                                         | Closed | Not applicable. No listed consultation requirements for the CNMVP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_02                                                   | A15                 | Prior to the commencement of earthworks for the development, the Applicant must:<br>a) consult with the relevant owner and provider of services or public infrastructure that are likely to be affected by the development or that need to be installed as part of the development, to make suitable arrangements for relevant approvals, access to, diversion, protection and support of the affected services or infrastructure;<br>b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and<br>c) submit a copy of the dilapidation report to the Planning Secretary, TNSW and Council | Closed | Addressed in Section 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_03                                                   | A23                 | All plant and equipment used on site, or to monitor the performance of the development, must be:<br>(a) maintained in a proper and efficient condition; and<br>(b) operated in a proper and efficient manner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Closed | Addressed in Section 8.1 (Standard mitigation management measures). Specifically within Table 20 (Environmental Management Controls for Construction Noise and Vibration) under the heading of 'Plant and Equipment Source Mitigation'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_04                                                   | B57                 | The Applicant must comply with the hours detailed in Table 2 unless otherwise agreed in writing by the Planning Secretary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Closed | Addressed in Section 6.2 (Hours of Construction)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_05                                                   | B58                 | Works outside of the hours identified in condition B57 may be undertaken in the following circumstances:<br>(a) works that are inaudible at the nearest sensitive receivers;<br>(b) works agreed to in writing by the Planning Secretary;<br>(c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or<br>(d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.                                                                                                                                                                                                 | Closed | Addressed in Section 6.2 (Hours of Construction)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_06                                                   | B59                 | 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 the Appendix 3.                                                                                                                                                                                                                   | Closed | Addressed in the following Sections<br>- Section 1.1 (Procedure for implementing this CNMVP): Includes process for review of plant and equipment and predicted noise impacts against. Requirement for additional noise assessment in the event of construct plant/ equipment change<br>- Section 5.0 (Assessment Criteria): Includes project specific NMLs for each of the 7 residential noise catchment areas, as well as other targeted receivers. Includes safe working distances with regards to vibration management<br>- Section 7.1 (Construction noise): Includes modelled noise impacts within and without mitigation. Results broken down into negligible, low impact, moderate impact, high impact and highly noise affected.<br>- Section 8.0 (Mitigation and management measures) | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_07                                                   | B60                 | 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:                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Closed | The CNMVP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_08                                                   | B60                 | (a) be prepared by a suitably qualified and experienced noise expert whose appointment has been endorsed by the Planning Secretary;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Open   | Please provide evidence to support endorsement of the noise expert by the Planning Secretary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SLR's CVs have been provided to Burton. Burton to request DPHI endorsement.                                                                     | SLR | Noted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Open            | SLR's CVs have been provided to Burton. Burton to request DPHI endorsement.                                                                                  | -  | Noise expert endorsement by DPHI received via letter correspondence dated 21/08/2024        | Closed          |
| CNMVP_09                                                   | B60                 | (b) be approved by the Planning Secretary prior to the commencement of earthworks for the development.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Closed | CNMVP to be provided to the Department following review and endorsement by the ER (this process).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_10                                                   | B60                 | (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);                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Closed | Addressed primarily in Section 8 (Mitigation and Management Measures)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_11                                                   | B60                 | (d) describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Closed | Addressed in the following sections:<br>- Section 8.0 (Mitigation and management measures) includes details of highly noise affected receivers and activities likely to trigger highly noise affected. Mitigation and management measures are included in Table 20, including the construction of a noise barrier under the heading of 'Screening'.<br>- Section 8.4 (Consultation strategy to manage high noise generating works                                                                                                                                                                                                                                                                                                                                                              | NA                                                                                                                                              | NA  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed          | NA                                                                                                                                                           | NA | NA                                                                                          | Closed          |
| CNMVP_12                                                   | B60                 | (e) include strategies that have been developed with the community for managing high noise generating works including acoustic screens around the perimeter of the site; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Open   | CNMVP currently includes a note requesting Burtons to provide further detail regarding this, including Appendix D - Management strategies for High Noise Generating Works. Further updates required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Section 8.4 of the CNMVP has been updated based on inputs from Burton. Additional requirements have been added to this section where necessary. | SLR | Noted. The noise assessment has determined that 930 Mamre Road would be highly noise impacted. It is noted that a noise barrier will be installed to help mitigate noise impacts at this location. Section 8.5 includes consultation commitments, including the delivery of a letter 7 days prior to noisy works.<br><br>It is suggested that a commitment is included to consult with 930 Mamre Road specifically with regards to the proposed noise mitigation measures / strategy prior to construction works commencing, advising of the noise barrier and noise monitoring and seek input. It is considered that the current duration of 7 days is not long enough and by this stage, the noise barrier will already be in place. | Open            | Section 8.4 has been updated in final CNMVP to include a requirement for specific communication with 930 Mamre Rd prior to the commencement of construction. | -  | Section 8.5 (Consultation strategy to manage high noise generating works) has been updated. | Closed          |



| Environmental Representative (ER) - Review 01 (11/08/2024) |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Applicant                                                                                                                                                                                                                                 |     | ER - Review 02 (19/08/2024)       |                 | Applicant         |    | ER - Review 03 (21/08/2024) |                 |
|------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------|-----------------|-------------------|----|-----------------------------|-----------------|
| Item                                                       | Condition / Section | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Status | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Response Comments                                                                                                                                                                                                                         | By  | Reviewer Close-out Comments       | Response Status | Response Comments | By | Reviewer Close-out Comments | Response Status |
| CNVMP_13                                                   | B60                 | (f) describe the community consultation undertaken to develop the strategies in condition B60(e).                                                                                                                                                                                                                                                                                                                                                                                                                          | Open   | Note that Table 1 (Development Consent Conditions) includes cross reference to the CEMP, Section 8.3 and Section 8.4.<br><br>Section 8.3 (Complaints Management) to be implemented in the event of a complaint, which includes communication with the complainant with regards to any additional control measures to be implemented.<br>Section 8.4 (Consultation strategy to manage high noise generating works) - the first paragraph of this section includes cross reference to the CEMP Appendix C-L. The CEMP has not addressed this requirement and Appendix L of the EMP relates specifically to consultation for CEMP and other sub-plans - and not the development of strategies in Condition B60(e).<br><br>Further detail to be provided in Appendix D of the CNVMP as indicated. | Section 8.4 of the CNVMP has been updated based on inputs from Burton. Additional requirements have been added to this section where necessary.                                                                                           | SLR | See above.                        | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_14                                                   | B60                 | (g) include a complaints management system that would be implemented for the duration of the development.                                                                                                                                                                                                                                                                                                                                                                                                                  | Closed | Addressed in Section 8.3 (Complaints Management) which provides a summary of the complaints management process with a suitable cross-reference to the Community Consultation and Complaints Handling Strategy (Appendix K of the CEMP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_15                                                   | B61                 | The Applicant must:<br>(a) not commence earthworks until the Construction Noise and Vibration Management Plan required by condition B60 is approved by the Planning Secretary; and                                                                                                                                                                                                                                                                                                                                         | Closed | CNVMP to be provided to the Department following review and endorsement by the ER (this process).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_16                                                   | B61                 | (b) implement the most recent version of the Construction Noise and Vibration Management Plan approved by the Planning Secretary for the duration of construction.                                                                                                                                                                                                                                                                                                                                                         | Closed | Addressed in Section 9.0 (Review and improvement of Noise Management Plan)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_17                                                   | B70                 | Prior to the commencement of earthworks, 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.                                                                                                                                                                 | Open   | Please include this condition also in Table 1 as it relates to traffic noise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Condition B70 has been included in Table 1 of the CNVMP and reference has been made to the Driver Code of Conduct in the CTMP attached as Appendix C of the CEMP.                                                                         | SLR | Noted. Document has been updated. | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_18                                                   | B71                 | Vibration caused by earthworks and construction at any residence or structure outside the site must be limited to:<br>(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<br>(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). | Closed | Vibration assessment included in Section 7.3 (Construction vibration) which includes the assessment outcomes for both structural damage and human comfort.<br><br>Construction mitigation measures are included in Table 20 (Env Management Controls for Construction Noise and Vibration), including the need for machinery / plant selection, attended vibration monitoring and completion of building condition surveys as required.                                                                                                                                                                                                                                                                                                                                                       | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_19                                                   | B72                 | 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 B71.                                                                                                                                                                                                                                                                                                                             | Closed | See below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_20                                                   | B73                 | The limits in conditions B71 and B72 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.                                                                                                                                                                                                                                                                                                                         | Closed | Table 13 (Recommended minimum working distances from vibration intensive equipment) includes a breakdown of safe working distances for various sized vibratory rollers and other vibration generating equipment.<br><br>Any associated works within the safe working distance will trigger additional mitigation measures and controls as detailed in Table 20 including attended vibration monitoring and building condition surveys.<br><br>Further, details regarding construction vibration monitoring is included in Section 8.2.3 (Construction vibration monitoring).                                                                                                                                                                                                                  | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_21                                                   | C1                  | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:<br>a) detailed baseline data;                                                                                                                                                                                                                                                                                                                                                                           | Closed | Addressed under Section 4 (Existing environment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_22                                                   | C1                  | b) details of:<br>i. the relevant statutory requirements (including any relevant approval, licence or lease conditions);<br>ii. any relevant limits or performance measures and criteria; and<br>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;                                                                                                                                            | Closed | Statutory requirements are addressed in Section 3.0 ( )<br>Relevant limits and performance indicators are addressed in Section 5 (Assessment criteria) and Section 7 (Construction assessment).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_23                                                   | C1                  | c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                                                                                                                                                                                                                                                                                                                                       | Closed | Section 8 (Mitigation and management measures)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_24                                                   | C1                  | d) a program to monitor and report on the:<br>i. impacts and environmental performance of the development; and<br>ii. effectiveness of the management measures set out pursuant to paragraph (c) above;                                                                                                                                                                                                                                                                                                                    | Closed | Monitoring requirements are addressed primarily in Section 8.2 (Monitoring), including construction noise monitoring and construction vibration monitoring.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_25                                                   | C1                  | 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;                                                                                                                                                                                                                                                                                                                       | Closed | Addressed in Section 8.5 (Contingency plan) - including contingency for both noise and vibration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_26                                                   | C1                  | f) a program to investigate and implement ways to improve the environmental performance of the development over time;                                                                                                                                                                                                                                                                                                                                                                                                      | Closed | Section 8.6 (Internal audits) includes a commitment to undertake periodic audits against the requirements of the CNVMP and consent conditions.<br><br>Addressed in Section 9 (Review and improvement of noise management plan)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_27                                                   | C1                  | g) a protocol for managing and reporting any:<br>i. incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);<br>ii. complaint;<br>iii. failure to comply with statutory requirements; and                                                                                                                                                                                                                                                       | Open   | Section 8.5 (Internal audits) includes a commitment to undertake periodic audits against the requirements of the CNVMP and consent conditions.<br><br>Addressed in Section 9 (Review and improvement of noise management plan)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Section 8.5 states what events constitute an incident in relation to noise and vibration. We have expanded on the contingency plan in the final CNVMP to include a protocol for managing/reporting incidents/non-compliances, complaints. | SLR | Noted.                            | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_28                                                   | C1                  | h) a protocol for periodic review of the plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Closed | Addressed in Section 9 (Review and improvement of noise management plan)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_29                                                   | Appendix 3 - 7      | Operation of Plant and Equipment<br><br>AtMs will ensure that all plant and equipment used on-site, is maintained and operated in proper and efficient manner, and in accordance with relevant Australian Standards.                                                                                                                                                                                                                                                                                                       | Closed | Addressed in Section 8.1 (Standard mitigation management measures). Specifically within Table 20 (Environmental Management Controls for Construction Noise and Vibration) under the heading of 'Plant and Equipment Source Mitigation'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_30                                                   | Appendix 3 - 18     | Noise and Vibration<br><br>During the construction phase, AtMs will ensure that all recommendations of the Construction Noise and Vibration Management Plan are adopted and implemented<br><br><i>Recommendations from the ES Acoustic works CNVMP have been listed below:</i>                                                                                                                                                                                                                                             | Closed | Noted. See below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |
| CNVMP_31                                                   | Appendix 3 - 18     | 1. Recommended construction hours would be as follows:<br>Monday to Friday 7 am to 6 pm<br>Saturday 8 am to 1 pm<br>No work on Sundays or public holidays                                                                                                                                                                                                                                                                                                                                                                  | Closed | Addressed in Section 6.4 (Hours of Construction)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NA                                                                                                                                                                                                                                        | NA  | NA                                | Closed          | NA                | NA | NA                          | Closed          |

| Environmental Representative (ER) - Review 01 (11/08/2024) |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                                                                                                                                                                                                                                                                       | Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | ER - Review 02 (19/08/2024)                                                    |                 | Applicant         |    | ER - Review 03 (21/08/2024) |                 |
|------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------|-----------------|-------------------|----|-----------------------------|-----------------|
| Item                                                       | Condition / Section    | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Status | Comments                                                                                                                                                                                                                                                                                                              | Response Comments                                                                                                                                                                                                                                                                                                                                                                                                                                         | By  | Reviewer Close-out Comments                                                    | Response Status | Response Comments | By | Reviewer Close-out Comments | Response Status |
| CNMP_32                                                    | Appendix 3 - 18        | 2. If further noise mitigation is required, acoustic barriers around the perimeter of the site can be installed during the works. If further noise reductions are required, install additional screening around noise sensitive areas.                                                                                                                                                                                                                                                                           | Closed | Acoustic barrier construction is included as a mitigation measure listed in Table 20                                                                                                                                                                                                                                  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | NA                                                                             | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_33                                                    | Appendix 3 - 18        | 3. Workers or delivery trucks do not congregate at or outside the site before 7am. This is an important factor in managing noise from the site.                                                                                                                                                                                                                                                                                                                                                                  | Closed | Addressed in Table 21, under the heading of 'Plant and equipment source mitigation'.                                                                                                                                                                                                                                  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | NA                                                                             | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_34                                                    | Appendix 3 - 18        | 4. Assign the task of managing noise emissions to a person (the 'responsible person') that is likely to be present on-site most of the time that activity is occurring (usually the Site Manager). This person would be responsible for handling noise complaints, and ensuring that work does not commence before the specified allowable times. The name and contact details of the 'responsible person' should be displayed outside the principal construction office.                                        | Closed | Addressed in Section 8.7 (Roles and responsibilities), with the role of managing noise and vibration, including monitoring and reporting, being assigned primarily to the Site Environmental Representative.                                                                                                          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | NA                                                                             | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_35                                                    | Appendix 3 - 18        | 5. If complaints arise regarding noise, the complaint will be directed to the 'responsible person', who will determine the source of the noise, and take immediate steps to investigate further or mitigate the noise as required. This may involve moving the noise source further away from affected premises, replacing the equipment, installing high performance silencers, or in some cases, engaging a qualified acoustic consultant to provide specialist control advice.                                | Closed | Addressed under Section 8.3 (Complaints management)                                                                                                                                                                                                                                                                   | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | NA                                                                             | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_36                                                    | Appendix 3 - 18        | 6. The Responsible Person should notify the adjacent residential premises of the intention to commence work that may cause adverse impacts on surrounding residents. If plant is to be operated in close proximity to residential premises, the Responsible Person should advise the occupants of the premises the length of time that the plant will be in operation proximate to the property boundary.                                                                                                        | Closed | Addressed under Section 8.4 (Consultation strategy to manage high noise generating works)                                                                                                                                                                                                                             | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | NA                                                                             | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_37                                                    | Appendix 3 - 18        | 7. Any moveable plant (e.g. compressors) should be located as far as practical from the residential premises.                                                                                                                                                                                                                                                                                                                                                                                                    | Closed | Addressed in mitigation measures table (Table 21) under the heading of 'Site layout'                                                                                                                                                                                                                                  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | NA                                                                             | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_38                                                    | Appendix 3 - 18        | 8. The Responsible Person maintain a record of complaints, which records the following details (refer to the example complaint record sheet in the appendix to this plan):<br>• The time and date of lodgement of the complaint;<br>• The name and telephone number of the complainant;<br>• The nature of the complaint, including a description of the noise (e.g. likely noise source, duration of the noise event - is the noise continuous, or of a short duration);<br>• The outcome of the investigation. | Closed | Addressed under Section 8.3 (Complaints management)                                                                                                                                                                                                                                                                   | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | NA                                                                             | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_39                                                    | Appendix 3 - 18        | 9. If a complaint is raised regarding a particular piece of plant, the plant shall be inspected for working condition, with particular attention given to the condition of engine covers or enclosures, and exhaust system. If machinery is in good condition, a high performance silencer should be installed.                                                                                                                                                                                                  | Closed | Addressed under Section 8.3 (Complaints management)                                                                                                                                                                                                                                                                   | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | NA                                                                             | Closed          | NA                | NA | NA                          | Closed          |
| Updated Management Measures                                |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                                                |                 |                   |    |                             |                 |
| CNMP_40                                                    | NA                     | Note that all of the Updated Management Measures as per the RTS Report are included within Appendix 3 of the CoA. Refer to above for the relevant UMM in relation to noise and vibration.                                                                                                                                                                                                                                                                                                                        | Closed | Note                                                                                                                                                                                                                                                                                                                  | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA  | NA                                                                             | Closed          | NA                | NA | NA                          | Closed          |
| Improvements                                               |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                                                |                 |                   |    |                             |                 |
| CNMP_41                                                    | General                | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Open   | Check page numbering throughout the document.                                                                                                                                                                                                                                                                         | Final CNMP includes correct page numbering                                                                                                                                                                                                                                                                                                                                                                                                                | SLR | Document updated                                                               | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_42                                                    | Section 1.0            | Introduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Open   | Third paragraph - Should this be referencing construction noise and vibration impacts, rather than 'Operational'?                                                                                                                                                                                                     | This reference was provided for context however, it has been removed from the final CNMP.                                                                                                                                                                                                                                                                                                                                                                 | SLR | Document updated                                                               | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_43                                                    | Section 2.0            | Development overview                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Open   | First paragraph - For consistency with other documents, include also the street address of the site (884-928 Marnie Road, Kemp's Creek NSW).                                                                                                                                                                          | Address included in CNMP                                                                                                                                                                                                                                                                                                                                                                                                                                  | SLR | No change. Happy to accept given the street address is provided in Section 1.0 | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_44                                                    | Section 3.0, Table 1   | Development consent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Open   | Typo: Reference to Condition D61 should be "B61".                                                                                                                                                                                                                                                                     | Correction made in final CNMP                                                                                                                                                                                                                                                                                                                                                                                                                             | SLR | Document updated                                                               | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_45                                                    | Section 6.3 (table 15) | Construction road traffic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Open   | Noted that the CTMP includes approximately 100 HV movements for peak periods alone (refer to Section 4.4.1 of the Construction Traffic Management Plan), however Table 15 includes 50. How sensitive are the noise impacts to an increase in HV numbers? Please review and update to be consistent with the CTMP.     | Clarify on the correct daily inputs for the offsite traffic noise assessment has been provided by Burton. Based on the confirmed data provided, the model has been updated and updated results have been included in the report. Based on these changes, the impacts the relative increase in 0.7dB (0.5dB was stated in draft CNMP). As this increase is <2dB, it represents a minor impact that is considered barely perceptible to the average person. | SLR | Document updated                                                               | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_46                                                    | Section 6.3 (table 15) | Construction road traffic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Open   | The column heading includes "Daytime - 7am-10pm". This should be 7am-6pm                                                                                                                                                                                                                                              | As per the NSW EPA Road Noise Policy the daytime period is defined as 7am to 10pm. A footnote has been added to Table 9 in the final CNMP for clarity.                                                                                                                                                                                                                                                                                                    | SLR | Noted                                                                          | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_47                                                    | Section 7.1            | Construction noise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Open   | First paragraph beneath the dot point includes minor typo: "...high and 100 m long noise barrier in..."                                                                                                                                                                                                               | Updated in the final CNMP.                                                                                                                                                                                                                                                                                                                                                                                                                                | SLR | Document updated                                                               | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_48                                                    | Section 7.1            | Construction noise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Open   | Second set of bullet points, fourth dot-point includes a minor typo: "...which occurs occurring further away..."                                                                                                                                                                                                      | Updated in the final CNMP.                                                                                                                                                                                                                                                                                                                                                                                                                                | SLR | Document updated                                                               | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_49                                                    | Section 7.2            | Construction road traffic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Open   | Currently includes the following statement:<br>"This increase is significantly less than 2 dB and in accordance with the NSW RNP represents a minor impact that is considered barely perceptible."<br><br>Is this statement still accurate if heavy vehicle movements were increased? Refer to comment CNMP_45 above. | See response CNMP_45. This statement is still applicable                                                                                                                                                                                                                                                                                                                                                                                                  | SLR | Noted                                                                          | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_50                                                    | Section 8.0            | Mitigation and management measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Open   | First paragraph - minor typo: "...receivers and highlights the highlights the need..."                                                                                                                                                                                                                                | Updated in the final CNMP.                                                                                                                                                                                                                                                                                                                                                                                                                                | SLR | Document updated                                                               | Closed          | NA                | NA | NA                          | Closed          |
| CNMP_51                                                    | Section 8.1 (Table 20) | Standard mitigation and management measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Open   | Third measure under heading of 'Project planning':<br><br>Include cross reference to the Construction Traffic Management Plan with regards to truck routes.                                                                                                                                                           | Updated in the final CNMP.                                                                                                                                                                                                                                                                                                                                                                                                                                | SLR | Document updated                                                               | Closed          | NA                | NA | NA                          | Closed          |

| Environmental Representative (ER) - Review 01 (11/08/2024) |                        |                                                             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Applicant                                                                                                                                                                                                                         |     | ER - Review 02 (19/08/2024)                                                                                                                         |                 | Applicant                                           |     | ER - Review 03 (21/08/2024)   |                 |
|------------------------------------------------------------|------------------------|-------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|-----|-------------------------------|-----------------|
| Item                                                       | Condition / Section    | Requirement                                                 | Status | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Response Comments                                                                                                                                                                                                                 | By  | Reviewer Close-out Comments                                                                                                                         | Response Status | Response Comments                                   | By  | Reviewer Close-out Comments   | Response Status |
| CNVMP_52                                                   | Section 8.1 (Table 20) | Standard mitigation and management measures                 | Open   | With regards to 'Screening', the following is noted:<br><br>Where the noise barrier must be built at a lower elevation, the barrier's height will need to be increased to achieve a similar degree of shielding to the upper floor of this residence as the modelled barrier.<br><br>Please confirm if the planning and / or construction of the noise barrier will include oversight / confirmation from the acoustic specialist that it has been designed / built in accordance with this requirement? | Statement added to Table 20 of the final CNVMP stating that a verification of the barrier design is required prior to installation and inspection of its installation is required after installation, by an Acoustic Consultant.  | SLR | Document updated                                                                                                                                    | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_53                                                   | Section 8.1 (Table 20) | Standard mitigation and management measures                 | Open   | Requirement under heading of 'Complaints management':<br>Include cross reference to the Community Consultation and Complaints Strategy.                                                                                                                                                                                                                                                                                                                                                                  | Reference included in the final CNVMP.                                                                                                                                                                                            | SLR | Document updated                                                                                                                                    | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_54                                                   | Section 8.1 (Table 20) | Standard mitigation and management measures                 | Open   | Under the heading of 'Monitoring':<br>Include "in accordance with Section 8.2" for the first control measure with regards to monitoring.                                                                                                                                                                                                                                                                                                                                                                 | Reference included in the final CNVMP.                                                                                                                                                                                            | SLR | Document updated                                                                                                                                    | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_55                                                   | Section 8.1 (Table 20) | Standard mitigation and management measures                 | Open   | With regards to the Person Responsible listed in Table 20, these should be consistent with the roles detailed in Section 3.1 of the CEMP - specifically, the CEMP includes the role of the Environmental Site Representative.<br><br>Update table 21 to be consistent.                                                                                                                                                                                                                                   | Table 20 of final CNVMP has been updated to be consistent with Section 3.1 of the CEMP                                                                                                                                            | SLR | Noted that Table 20 has been updated. Please also update reference to Site Environmental Representative in Section 8.8 (Roles and Responsibilities) | Open            | Section 8.8 Section has been updated in final CNVMP | SLR | Section 8.8 has been updated. | Closed          |
| CNVMP_56                                                   | Section 8.1 (Table 20) | Standard mitigation and management measures                 | Open   | First measure under the heading of 'Vibration':<br><br>Noted that the if vibration generating works are required within the minimum cosmetic damage working distances (refer Table 13) and considered likely to exceed the criteria.....<br><br>Who determines if the works are 'likely' to exceed the criteria? Any involvement from the acoustic specialist?                                                                                                                                           | Section 5.3.2 states that "where works are further from receivers than the quoted minimum distances then impacts are not considered likely" The converse is also true. Text in Table 20 has been updated to provide more clarity. | SLR | Noted                                                                                                                                               | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_57                                                   | Section 8.2.2          | Construction noise monitoring                               | Open   | Under the heading of 'Verification monitoring':<br><br>The requirement states "Where feasible" - Can this be firmed up? It's not good practice to include loose wording in management plans. Consider including noise verification monitoring for any high noise works.                                                                                                                                                                                                                                  | Text in this section has been updated in the final CNVMP.                                                                                                                                                                         | SLR | Document updated                                                                                                                                    | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_46                                                   | Section 8.2.2          | Construction noise monitoring                               | Open   | Under the heading of Periodic attended monitoring':<br><br>First paragraph - Remove the word 'Recommendation'. It should be clear within this plan what monitoring will be undertaken. Please firm up this requirement. Suggest adopting the monthly approach as included below.                                                                                                                                                                                                                         | Final CNVMP updated stating that periodic monitoring is to be conducted on a monthly basis by a suitably qualified Acoustic Consultant.                                                                                           | SLR | Document updated                                                                                                                                    | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_47                                                   | Section 8.2.3          | Construction vibration monitoring                           | Open   | Under the heading of 'Cosmetic damage monitoring':<br><br>Noted that the monitoring equipment will have visible and audible alarms installed - What about text alerts or similar? It may be difficult at times for the operator of plant to see / hear an alarm.                                                                                                                                                                                                                                         | Requirement included in the final CNVMP.                                                                                                                                                                                          | SLR | Document updated                                                                                                                                    | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_48                                                   | Section 8.3            | Complaints management                                       | Open   | Include brief mention of the need to undertake noise and vibration monitoring as detailed in the sections above.                                                                                                                                                                                                                                                                                                                                                                                         | Requirement included in the final CNVMP.                                                                                                                                                                                          | SLR | Document updated                                                                                                                                    | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_49                                                   | Section 8.4            | Consultation strategy to manage high noise generating works | Open   | This section includes a cross reference to CEMP Appendix C-L with regards to consultation carried out with surrounding receivers.<br><br>This is not correct. This appendix does not relate to Consultation in relation to this plan or noise and vibration.                                                                                                                                                                                                                                             | Noted. Reference deleted in final CNVMP                                                                                                                                                                                           | SLR | Noted - see comment CNVMP_12 above.                                                                                                                 | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_50                                                   | Section 8.5 (Table 21) | Contingency plan                                            | Open   | Vibration response for condition amber - Consider also including the undertaking of condition survey prior to works being undertaken.                                                                                                                                                                                                                                                                                                                                                                    | Requirement included in the final CNVMP.                                                                                                                                                                                          | SLR | Document updated                                                                                                                                    | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_51                                                   | Section 9              | Review and improvement of Noise Management Plan             | Open   | Last dot point - Include further details re Condition 8, or include cross reference to Section 7 of the CEMP (Review) with regards to plan review requirements.                                                                                                                                                                                                                                                                                                                                          | Reference to Section 7 of the CEMP included in the final CNVMP.                                                                                                                                                                   | SLR | Document updated                                                                                                                                    | Closed          | NA                                                  | NA  | NA                            | Closed          |
| CNVMP_52                                                   | General                | NA                                                          | NA     | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA                                                                                                                                                                                                                                | NA  | Please include a plan objective at the front of the document. See provided example document.                                                        | Open            | Objectives of CNVMP added in front as Section 1.1   | SLR | Document updated              | Closed          |



Our ref: SSD-17647189-PA-28

Mr Stephen O'Connor  
Project Director  
Barings  
Level 19, 60 Castlereagh Street  
Sydney NSW 2000

12 June 2024

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Subject: **Construction Air Quality Management Plan**

Dear Mr O'Connor

I refer to the Construction Air Quality Management Plan (CAQMP) submitted in accordance with B83, Schedule 2 of the consent for Access Logistics Park (SSD-17647189). I also acknowledge your response to the Department's review comments and the revised CAQMP provided.

The Department has carefully reviewed the CAQMP and the endorsement by the Environmental Representative appointed for the development. The Department is satisfied the CAQMP meets the requirements of Condition B83 of SSD-17647189. Accordingly, as nominee of the Planning Secretary, I approve the CAQMP, prepared by Northstar and dated 27 May 2024, Revision 5 (reference: 24.1051.FR1V5).

You are reminded that if there are any inconsistencies between the CAQMP and the conditions of approval, the conditions prevail.

Please ensure you make the document publicly available on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Rebecka Groth on telephone number 02 82751723 or email [rebecka.groth@dpie.nsw.gov.au](mailto:rebecka.groth@dpie.nsw.gov.au)

Yours sincerely



Lindsey Blecher  
Team Leader  
Industry Assessments

As nominee of the Planning Secretary

30 May 2024



**Anthony Murr**  
**Associate Director**  
**Project Strategy**  
**PO Box 271**  
**SUTHERLAND NSW 1499**

**By Email:** [amurr@projectstrategy.com.au](mailto:amurr@projectstrategy.com.au)

Dear Anthony,

**SSD-17647189 – 884-928 Mamre Road, Kemps Creek (Access Logistics Park)**  
**Environmental Representative (ER) – Endorsement of the Construction Air Quality**  
**Management Plan (CAQMP)**

With regards to the Access Logistics Park Construction Air Quality Management Plan (CAQMP), I note that Revision 4 of the document (dated 30/04/2024) was reviewed and endorsed by myself as ER, pursuant to SSD-17647189 Condition A36(e)(i), as per letter correspondence dated 10/05/2024.

The CAQMP has since been reviewed by the Department of Planning, Housing and Infrastructure (DPHI), and the following changes made to address the comments:

- Document revision number and document date updated, now Revision 5, dated 27/05/2024
- Section 6.2 (Air quality monitoring) has been updated to include additional monitoring requirements, including the use of real-time air quality monitoring devices at four (4) locations and a single location for the real-time monitoring of meteorological conditions
- Inclusion of Figure 9 showing the monitoring locations
- Section 6.2.2.2 (Trigger levels) updated to include a Trigger Action Response Plan (TARP) for dust management utilising the results of the real-time dust monitors

Furthermore, Section 7.5 (Reporting to the Environmental Representative) of the AQMP has been updated to include minimum monthly reviews of the air quality monitoring data, which would be undertaken by the Development (in addition to real-time monitoring and implementation of the TARP). Data interpretation and a summary of results would be provided to myself as the ER for inclusion in the monthly ER report in accordance with Condition A36(I).

In my opinion, Revision 5 of the Access Logistics Park AQMP (dated 27/05/2024) remains consistent with the requirements in or under the terms of SSD-17647189 as applicable to the construction of the Development.

Please feel free to contact me if you require anything further or would like to discuss.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Ben Bracken', written over a light blue circular stamp.

**Ben Bracken**

Environmental Representative  
Access Logistics Park  
BBEnviro Pty Ltd

Phone: 0410 409 897  
Email: [ben.bracken@bbenviro.com.au](mailto:ben.bracken@bbenviro.com.au)

Our ref: SSD-17647189-PA-31

Mr Stephen O'Connor  
Project Director  
The Trustee for Altis Kemps Creek Investment 1 Trust  
Level 19, 60 Castlereagh Street  
SYDNEY NSW 2000

11 July 2024

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Subject: Construction and Demolition Waste Management Plan

Dear Mr O'Connor,

I refer to your submission of the Waste Management Plan submitted in accordance with Condition B104 of the consent for the Access Logistics Park (SSD-17647189). I also acknowledge your response to the Department's review comments and request for additional information.

The Department has carefully reviewed the document and is satisfied that it meets the requirements of Condition B104. Accordingly, as nominee of the Planning Secretary, I approve the Waste Management Plan, prepared by Sydney Environmental Group P/L and dated 14 June 2024 (Ref: 2424-WMP-01-140224.v6f).

The Department notes the Waste Management Plan must form part of the projects' Construction Environmental Management Plan as required by Condition C2.

You are reminded that if there are any inconsistencies between the Waste Management Plan and the conditions of approval, the conditions prevail. Please ensure you make the document publicly available on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Rebecka Groth on telephone number 02 82751723.

Yours sincerely



David Schwebel  
**A/Team Leader**  
**Industry Assessments**

As nominee of the Planning Secretary





9 May 2024

**Anthony Murr**  
**Associate Director**  
**Project Strategy**  
**PO Box 271**  
**SUTHERLAND NSW 1499**

**By Email:** [amurr@projectstrategy.com.au](mailto:amurr@projectstrategy.com.au)

Dear Anthony,

**SSD-17647189 – 884-928 Mamre Road, Kemps Creek (Access Logistics Park)**  
**Environmental Representative (ER) – Endorsement of the Waste Management Plan (WMP)**

Pursuant to SSD-17647189 Condition A36(e)(i), I have reviewed the following document as required under SSD-17647189 Condition C3(f):

- *Altis Access Estate, Kemps Creek NSW, Waste Management Plan (WMP)* - Report Number: 2424-WMP-01-140224.v5f, Version 5 dated 3/05/2024.

In my opinion, the document is consistent with the requirements in or under the terms of SSD-17647189 as applicable to the construction of the Development.

Refer to Attachment 1 for the ER Comment Register containing further details on the conditions of approval and other requirements applicable to the WMP, in addition to the associated ER review comments and close-out.

Please feel free to contact me if you require anything further or would like to discuss.

Yours sincerely,

A handwritten signature in black ink, appearing to read "J. Heltborg", written over a light blue horizontal line.

**Jo Heltborg**

Alternate Environmental Representative  
Access Logistics Park  
BBEnviro Pty Ltd

Phone: 0414 554 277  
Email: [jo@morasey.com.au](mailto:jo@morasey.com.au)

**Attachment 1:** ER Comment Register - WMP

ER REVIEW Access Logistics Park

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Respondent      | Waste Management Plan (CEMP) Appendix 1              |
| Client Name     |                                                      |
| Document Number | 2424-MWP-01-0024                                     |
| Issue Date      |                                                      |
| Response Date 1 | 10 February (Internal ER) (WMP - v1.0 February 2024) |
| Response Date 2 | 10 February (Internal ER) (WMP - v2.0 February 2024) |
| Response Date 3 | 10 February (Internal ER) (WMP - v3.0 April 2024)    |
| Response Date 4 | 10 February (Internal ER) (WMP - v4.0 April 2024)    |
| Response Date 5 | 10 February (Internal ER) (WMP - v5.0 April 2024)    |

|                           |
|---------------------------|
| RESPONSE AGREEMENT STATUS |
| C - Open                  |
| C - Closed                |

| ER - Review 01 (01/04/2024) |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | ER - Review 02 (16/02/2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                       |                            |    | ER - Review 03 (25/04/2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            | ER - Review 04 (17/05/2024) |                                                                                                                                                                                                                                                                   |                 |                                                                                                                                                                                                                                                                                                                |           |
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| Item                        | Condition | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Status | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicant                                                                                                                                                                                                             | Response Comments          | By | Relevant Closed Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Response Status | Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Response Comments          | By                          | Relevant Closed Comments                                                                                                                                                                                                                                          | Response Status |                                                                                                                                                                                                                                                                                                                |           |
| WMP_01                      | A38 (6)   | The Applicant must engage an Environmental Representative (ER) to oversee earthworks, subdivision and construction of the development. Unless otherwise agreed to by the Planning Secretary, the earthworks and 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:<br><br>(f) 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; | Open   | There is no reference to Condition A38 (6) in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Amendment made to Section 1.3                                                                                                                                                                                         | Sydney Environmental Group |    | Updated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            | NA                          |                                                                                                                                                                                                                                                                   | Closed          |                                                                                                                                                                                                                                                                                                                |           |
| WMP_02                      | B101 (6)  | The Applicant must ensure that any asbestos encountered during the earthworks and construction is managed, handled, transported and disposed of by appropriately qualified and licensed contractors in accordance with the requirements of SafeWork NSW and relevant guidelines, including:<br><br>(c) Protection of the Environment (Waste) Regulation 2014.                                                                                                                                                                                                     | Open   | Section 2.2 sets out the statutory obligations and requirements and includes references to SafeWork NSW and relevant guidelines and SafeWork NSW requirements. Asbestos waste type has been included in Tables 4&5 (asbestos TBC) - to be disposed off-site.<br>Asbestos is also identified in Section 3 in relation to re-usable landfill material.<br>There is no reference to Condition B101 (6), or requirements for the handling, handling, transport and disposal of asbestos (to be included in the Environmental Operations (Waste) Regulation 2014). Please review and update.<br>There is no reference to Condition B101 (6) in the WMP. Please review and update.                                                                                                                                                                                                                              | Condition B101 now referenced within Table 2                                                                                                                                                                          | Sydney Environmental Group |    | Condition B101 (6) has been added to the compliance table. Closed<br>As per previous ER comment there is no reference to B101 (6) in the body of the WMP. Please address how asbestos will be managed, handled, transported and disposed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Open            | Refer to Section 3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sydney Environmental Group |                             | Document updated                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                             |           |
| WMP_03                      | B104 (6)  | Prior to the commencement of construction of the development, the Applicant must prepare a Construction and Demolition Waste Management Plan for the development. The Plan must form part of a CEMP in accordance with condition C2 and must:<br><br>(a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations; and                                                                                                                                                                     | Open   | The WMP - v1.1, 25 February 2024 (Form Appendix) is the CEMP for the development.<br>(b) Tables 4 and 5 list waste types expected during demolition (Table 4) and construction (Table 5). Tables 4 & 5 include estimated volumes of each waste type.<br>Section 3.2 outlines the process for the sampling of RF excavated from the site. This section is very brief and does not include reference to relevant legislative or other requirements (e.g., Waste Regulations, NIOSH EPA Waste Classification Guidelines) for any RF material to be disposed off-site.                                                                                                                                                                                                                                                                                                                                        | Amended within Section 3.2                                                                                                                                                                                            | Sydney Environmental Group |    | Section 3.2, Sentence 1 states "Investigative sampling will be undertaken on all spoil materials that require excavation and disposal if required". Please specify what types of investigative sampling will be undertaken during the project, e.g. does this refer to in-situ and/or ex-situ waste classification sampling? Please clarify statement if required, i.e. when will this sampling be required?<br>Section 3.2, Sentence 2 states "Sampling for materials prepared for off-site disposal will be undertaken per the NIOSH EPA Waste Classification Guidelines (2014) or the corresponding NIOSH EPA Resource Recovery Order". Spoil subject to a RFQ is usually being transported to another site for beneficial reuse rather than disposed. Please clarify processes for the disposal of spoil, and for the reuse of it.<br>Section 3.2, Sentence 3 states "Specific waste management plans will be developed as an outcome of the investigation sampling. The management plans will ensure areas confidently identify specific disposal options and techniques based on any contamination found at the project location". Will this be undertaken in practice? Please ensure all contaminants in the WMP are achievable with intent to implement, as this will be verified by the ER during the project. Should the section instead refer to Waste Classification Reports? | Open            | Comment 1: Amended - sampling to be undertaken in-situ/ex-situ as required. Sampling will be undertaken. If required - reworded.<br>Comment 2: Wording amended to "investigative" - Refer to Section 3.3 for disposal versus re-use.<br>Comment 3: Amended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sydney Environmental Group |                             | Document updated                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                             |           |
| WMP_04                      | B104 (6)  | As above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Open   | Section 3.1 outlines the process for natural materials and re-usable landfill material and reference assessment against NEPM criteria. This section states "Due to site space constraints, construction wastes will accumulate and disposal of excavated materials". Conflicting information is presented in the next paragraph which states "A spoil management plan will be developed to identify specific construction techniques to reduce excavated spoil requiring landfilling".<br>Sections of the project at a depth which require a "clean" RF capping layer to be placed on top of the landfill material.<br>Please provide clear information / processes for the proposed material re-use strategy for the project, which should include opportunities for the beneficial use of excavated material.<br>Has a Spoil Management Plan been prepared? If so, please provide a copy for ER review. | A soil characterisation assessment will be undertaken to a suitable requirement environmental scientist per NEPM 2013 and relevant outcomes of the assessment will be included in a soil characterisation assessment. | Sydney Environmental Group |    | Reference to disposal of all excavated material has been removed from the WMP. In the Spoil Management Plan has the same as the Waste Management Plan referred to in Section 3.2? Please confirm.<br>As per previous ER comment, Has a Spoil Management Plan been prepared? If so, please provide a copy for ER review.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Open            | Different documents. The CEMP outlines requirements for spoil management and as such, reference to the CEMP spoil management plan not included.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sydney Environmental Group |                             | A Spoil Management Plan has not been prepared for the project. Therefore the WMP should outline all requirements for spoil management. Please remove reference to the Spoil Management Plan and ensure all spoil management requirements are included in the WMP. | Open            | Reference to a Spoil Management Plan has been removed. Specific impacts and the quantity of spoil generation has been included in Appendix 2. All other spoil management requirements - waste classification assessments, materials handling, temporary storage etc are covered within the body of the report. | Addressed |
| WMP_05                      | B104 (6)  | As above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Open   | Section 3.3, Part 3 refers to the 'Waste Classification Guidelines' - please use the full reference, i.e. NIOSH EPA Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014)<br><br>There is no reference to Condition B104 (6) in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Waste materials will be classified in line with all parts of the NIOSH EPA Waste Classification Guidelines (2014).                                                                                                    | Sydney Environmental Group |    | Please address ER comment as providing proper reference. Open                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Open            | No amendments made as the NIOSH EPA Waste Classification Guidelines Part 1: Classifying Waste cannot be relied on to classify waste alone. All parts of the waste classification guidelines must be referred to when classifying waste. For example, if PPE is a component of concern analysed as part of a classification assessment - not referring to the additional to the waste classification guidelines would mean that the wastes would may not be classified appropriately. Similarly, soil and rubble will not be appropriately classified/assessed reference to Part 1 alone. As such, EE will not reference Part 1. Classifying Waste as the entire 'Waste Classification Guidelines' document is utilized when classifying wastes, not just Part 1. | Sydney Environmental Group |                             | Document updated                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                             |           |
| WMP_06                      | B104 (6)  | (b) be implemented for the duration of construction works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Open   | There is no reference to Condition B104 (6) in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Amended within Section 1.3                                                                                                                                                                                            | Sydney Environmental Group |    | Reference to B104 (6) added to the compliance table. Closed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            | NA                          |                                                                                                                                                                                                                                                                   | Closed          |                                                                                                                                                                                                                                                                                                                |           |
| WMP_07                      | B105 (6)  | The Applicant must:<br><br>(a) not commence construction until the Construction and Demolition Waste Management Plan has been prepared; and                                                                                                                                                                                                                                                                                                                                                                                                                       | Open   | There is no reference to Condition B105 (6) in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Amended within Section 1.3                                                                                                                                                                                            | Sydney Environmental Group |    | Reference to B105 (6) added to the compliance table. Closed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            | NA                          |                                                                                                                                                                                                                                                                   | Closed          |                                                                                                                                                                                                                                                                                                                |           |
| WMP_08                      | B105 (6)  | (b) implement the most recent version of the Construction and Demolition Waste Management Plan approved by the Planning Secretary.                                                                                                                                                                                                                                                                                                                                                                                                                                | Open   | There is no reference to Condition B105 (6) in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Amended within Section 1.3                                                                                                                                                                                            | Sydney Environmental Group |    | Reference to B105 (6) added to the compliance table. Closed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            | NA                          |                                                                                                                                                                                                                                                                   | Closed          |                                                                                                                                                                                                                                                                                                                |           |
| WMP_09                      | B108      | Prior to the commencement of construction of the wastehouse, the Applicant must obtain approval from Council for the design of the waste storage area for the wastehouse.                                                                                                                                                                                                                                                                                                                                                                                         | Open   | There is no reference to Condition B108 in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Added within Section 1.3                                                                                                                                                                                              | Sydney Environmental Group |    | Please include comment to comply with B108 in relevant section in the body of the WMP. Open                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Open            | Included in Section 2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sydney Environmental Group |                             | Document updated                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                             |           |
| WMP_10                      | B109      | Section 3.1 addresses waste storage and handling, including the storage of waste oils and chemicals.<br><br>The storage arrangements for other types of waste should also be included here, i.e. shredded and/or general waste, vegetation requirements etc.                                                                                                                                                                                                                                                                                                      | Open   | There is no reference to Condition B109 in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Amended within Section 1.3 and Section 3.1                                                                                                                                                                            | Sydney Environmental Group |    | Reference to B109 added to the compliance table. Closed<br>Please expand on shredding requirements. Reference is made to storage in a locked area - is this possible? Shreddage should be formed and maintained in accordance with the Blue Book. Shreddage should be formed to reduce dust generated in collection, wheel down, light restrictions. Shreddage should be covered if they remain on site for more than 10 days etc. Open                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Open            | Amended                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sydney Environmental Group |                             | Document updated                                                                                                                                                                                                                                                  | Closed          | NA                                                                                                                                                                                                                                                                                                             |           |
| WMP_11                      | B110      | 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 facility that may lawfully accept the waste.                                                                                                                                                                                                                                                                     | Open   | There is no reference to Condition B110 in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Amended within Section 1.3                                                                                                                                                                                            | Sydney Environmental Group |    | Addressed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            | NA                          |                                                                                                                                                                                                                                                                   | Closed          |                                                                                                                                                                                                                                                                                                                |           |
| WMP_12                      | B111 (6)  | The Applicant must:<br><br>(a) implement suitable measures to manage pests, vermin and declared priority weeds on the site; and                                                                                                                                                                                                                                                                                                                                                                                                                                   | Open   | There is no reference to Condition B111 (6) in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Amended within Section 1.3                                                                                                                                                                                            | Sydney Environmental Group |    | Reference to B111 (6) added to the compliance table. Closed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Open            | Already included within Section 3.1, paragraph 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sydney Environmental Group |                             | Section 3.1 refers to vermin but other pests that may be of concern, and the management of weed waste has not been addressed, e.g. how will priority weeds be managed from a waste perspective? Please update.                                                    | Open            | Updated                                                                                                                                                                                                                                                                                                        | Addressed |
| WMP_13                      | B111 (6)  | (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 in sufficient numbers to pose an environmental hazard or cause the loss of amenity in the surrounding area.                                                                                                                                                                                                                                                                                               | Open   | There is no reference to Condition B111 (6) in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Amended within Section 1.3                                                                                                                                                                                            | Sydney Environmental Group |    | As above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Open            | Already included within Section 3.1, paragraph 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sydney Environmental Group |                             | As above                                                                                                                                                                                                                                                          | Open            | Updated                                                                                                                                                                                                                                                                                                        | Addressed |
| WMP_14                      | C1 (6)    | Note: For the purposes of this condition, priority weed has the same definition of the term in the Biosecurity Act 2015.<br><br>Management plans required under the consent must be prepared in accordance with relevant guidelines, and include:<br><br>(a) detailed baseline data.                                                                                                                                                                                                                                                                              | Closed | Condition C1 (6) has not been specifically addressed but is not considered relevant for waste management.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NA                                                                                                                                                                                                                    | NA                         |    | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            | NA                          |                                                                                                                                                                                                                                                                   | Closed          | NA                                                                                                                                                                                                                                                                                                             |           |

| Environmental Representative (ER) - Review 01 (20/04/2024)      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | ER - Review 02 (19/04/2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                           |                            |                                                                                                                                                                                                                                                                                                                           | ER - Review 03 (25/04/2024) |                   |                            |                                                                                                                                                                                                                                                                                                                                                                              | ER - Review 04 (16/05/2024) |                   |                            |                           |
|-----------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------|----------------------------|---------------------------|
| Item                                                            | Location    | Requester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Status | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Response Comments                                                                                                                                                                                         | By                         | Review Close-out Comments                                                                                                                                                                                                                                                                                                 | Response Date               | Response Comments | By                         | Review Close-out Comments                                                                                                                                                                                                                                                                                                                                                    | Response Date               | Response Comments | By                         | Review Close-out Comments |
| WMP_15                                                          | C1 (b)      | (b) details of:<br>(i) relevant waste management requirements (including any relevant approval, licence or waste condition)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Open   | Section 2.2 outlines statutory obligations but is limited to Asbestos Removal Licence.<br>Please review and update this section to include all relevant waste management statutory requirements relevant to the site, e.g. Protection of the Environment (Quality of Effluent) Regulations, WEFRA, Resource Recovery Exemptions, NSW EPA Waste Classification Guidelines etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Amended within Table 3.                                                                                                                                                                                   | Sydney Environmental Group | Please review and update Section 2.2 to refer to the POEW Waste Regulations. We have any Service (e.g. EPA) to be aware of that should be included here?                                                                                                                                                                  | Open                        | Updated           | Sydney Environmental Group | Noted that no EPA is required per Section 4.2.4 of the ER.<br>As incorrect reference has been added to the last row of Table 3 (POEW Act 2016). Please remove. Not sure where the reporting requirement of "Waste water" (waste management) throughout the project? has come from but it is pertinent to the plan - should it be included under one of the other acts / reg? | Open                        | Revised           | Sydney Environmental Group | Addressed                 |
| WMP_15                                                          | C1 (b)      | (i) the relevant risks to performance measures and criteria; and<br>(ii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or of management measures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Open   | Table 3 sets objectives and targets for the project including for Waste minimisation, waste disposal and final assembly.<br>Measurable targets for waste minimisation have not been set. Please review and update as relevant, e.g. target to 3% acceptance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Original row outlined in Table 4 (formerly Table 3)                                                                                                                                                       | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| WMP_16                                                          | C1 (b)      | (ii) a description of the measures to be implemented to comply with the relevant statutory requirements, risks, or performance measures and criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Closed | Section 2.2 and 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NA                                                                                                                                                                                                        | NA                         | NA                                                                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| WMP_17                                                          | C1 (b)      | (i) a program to monitor and report on the<br>(ii) impacts and environmental performance of the development; and<br>(iii) effectiveness of the management measures set out pursuant to paragraph (ii) above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed | Addressed in Section 3.5. Requirements for inspections and audits etc. is outlined in the CEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NA                                                                                                                                                                                                        | NA                         | NA                                                                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| WMP_18                                                          | C1 (b)      | (i) a program to monitor and report on the<br>(ii) impacts and environmental performance of the development; and<br>(iii) effectiveness of the management measures set out pursuant to paragraph (ii) above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed | Addressed in Section 3.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA                                                                                                                                                                                                        | NA                         | NA                                                                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| WMP_19                                                          | C1 (b)      | (i) a program to monitor and report on the<br>(ii) impacts and environmental performance of the development; and<br>(iii) effectiveness of the management measures set out pursuant to paragraph (ii) above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed | Addressed in Section 3.5 & 3.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NA                                                                                                                                                                                                        | NA                         | NA                                                                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| WMP_20                                                          | C1 (b)      | (i) a program to monitor and report on the<br>(ii) impacts and environmental performance of the development; and<br>(iii) effectiveness of the management measures set out pursuant to paragraph (ii) above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Open   | (i) a program to monitor and report on the<br>(ii) impacts and environmental performance of the development; and<br>(iii) effectiveness of the management measures set out pursuant to paragraph (ii) above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Amended within Section 3.6                                                                                                                                                                                | Sydney Environmental Group | Section 3.6 Plan 1 refers to human health impacts from waste management. The purpose of the WMP is to address environmental impacts. Please review and update.                                                                                                                                                            | Open                        | Updated           | Sydney Environmental Group | Document updated                                                                                                                                                                                                                                                                                                                                                             | Closed                      | NA                | NA                         | NA                        |
| WMP_21                                                          | C1 (b)      | (i) a program to monitor and report on the<br>(ii) impacts and environmental performance of the development; and<br>(iii) effectiveness of the management measures set out pursuant to paragraph (ii) above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Open   | Note: the Planning Secretary may waive some of these requirements if they are unnecessary or unreasonable for particular management plans.<br>Within three months of:<br>(a) the submission of a Comprehensive Report under condition C14;<br>(b) the submission of an incident report under condition C15;<br>(c) the approval of any modification of the conditions of this consent; or<br>(d) the issue of a direction of the Planning Secretary under condition C20 which requires a review, the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing that a review is being carried out.<br>If necessary to allow improve the environmental performance of the development, cause for a modification or comply with a direction, the strategies, plans and programs required under the consent will 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.<br>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. | Amended within new Section 3.6                                                                                                                                                                            | Sydney Environmental Group | Section 3.6 addresses plan review                                                                                                                                                                                                                                                                                         | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| WMP_22                                                          | C8          | (i) the approval of any modification of the conditions of this consent; or<br>(d) the issue of a direction of the Planning Secretary under condition C20 which requires a review, the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing that a review is being carried out.<br>If necessary to allow improve the environmental performance of the development, cause for a modification or comply with a direction, the strategies, plans and programs required under the consent will 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.<br>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. | Open   | There is no reference to Condition C8 in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Amended within new Section 3.6                                                                                                                                                                            | Sydney Environmental Group | Section 3.6 addresses plan review and Condition C8                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| WMP_23                                                          | C9          | (i) the approval of any modification of the conditions of this consent; or<br>(d) the issue of a direction of the Planning Secretary under condition C20 which requires a review, the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing that a review is being carried out.<br>If necessary to allow improve the environmental performance of the development, cause for a modification or comply with a direction, the strategies, plans and programs required under the consent will 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.<br>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. | Open   | There is no reference to Condition C9 in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Amended within new Section 3.6                                                                                                                                                                            | Sydney Environmental Group | Section 3.6 addresses plan review and Condition C9                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| APPENDIX 3 Applicant's Management and Mitigation Measures       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                           |                            |                                                                                                                                                                                                                                                                                                                           |                             |                   |                            |                                                                                                                                                                                                                                                                                                                                                                              |                             |                   |                            |                           |
| WMP_24                                                          | 10          | Alto will ensure that a permanent record of receipts, for the removal of both liquid and solid waste from the Subject Site, be kept and maintained up to date at all times. Such records would be made available to authorised person upon request.<br>Cleaning contractors. Alto will implement the measures contained within the proposed Waste Management Plan. These are to be incorporated into the CEMP to be based upon measurement of construction.<br>Alto will ensure that all waste generated on-site during construction and operation is classified in accordance with the Waste Classification Guidelines Part 1 Classifying Waste and disposal of a facility that may be harmful to the waste.                                                                                                                                                                                                                                                                    | Closed | Addressed in Section 3.1 Waste storage and handling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA                                                                                                                                                                                                        | NA                         | NA                                                                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| WMP_25                                                          | 24          | Alto will ensure that a permanent record of receipts, for the removal of both liquid and solid waste from the Subject Site, be kept and maintained up to date at all times. Such records would be made available to authorised person upon request.<br>Cleaning contractors. Alto will implement the measures contained within the proposed Waste Management Plan. These are to be incorporated into the CEMP to be based upon measurement of construction.<br>Alto will ensure that all waste generated on-site during construction and operation is classified in accordance with the Waste Classification Guidelines Part 1 Classifying Waste and disposal of a facility that may be harmful to the waste.                                                                                                                                                                                                                                                                    | Closed | Implementation of the WMP is referenced throughout the document                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NA                                                                                                                                                                                                        | NA                         | NA                                                                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| WMP_26                                                          | 25          | Alto will ensure that a permanent record of receipts, for the removal of both liquid and solid waste from the Subject Site, be kept and maintained up to date at all times. Such records would be made available to authorised person upon request.<br>Cleaning contractors. Alto will implement the measures contained within the proposed Waste Management Plan. These are to be incorporated into the CEMP to be based upon measurement of construction.<br>Alto will ensure that all waste generated on-site during construction and operation is classified in accordance with the Waste Classification Guidelines Part 1 Classifying Waste and disposal of a facility that may be harmful to the waste.                                                                                                                                                                                                                                                                    | Closed | The requirement to classify waste plan to allow disposal addressed throughout the WMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NA                                                                                                                                                                                                        | NA                         | NA                                                                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                                                                                                                                                                                                                                                                                                                                                                           | Closed                      | NA                | NA                         | NA                        |
| APPENDIX 4 Review and Settlement Control - Performance Criteria |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                           |                            |                                                                                                                                                                                                                                                                                                                           |                             |                   |                            |                                                                                                                                                                                                                                                                                                                                                                              |                             |                   |                            |                           |
| WMP_27                                                          | 3 (b)       | There are to be no visible oil, sludge, anthropogenic dust or discoloration in any release from the site or downstream damage or waterway within the site. Facilities are to be provided for their collection and segregated concrete washed areas to exist in meeting this requirement. Storage areas for site materials and waste are to be kept covered.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Open   | There is no reference to Mitigation Measure Appendix 4 (3b) in the WMP. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Within Section 3.1                                                                                                                                                                                        | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| Appendix 5                                                      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                           |                            |                                                                                                                                                                                                                                                                                                                           |                             |                   |                            |                                                                                                                                                                                                                                                                                                                                                                              |                             |                   |                            |                           |
| WMP_28                                                          | Section 1   | Introduction / Site identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Open   | The introduction describes the site as Lots 2 & 3 of DP 289156. The planning approval describes the site as Lot 12 DP 289155 and Lot 13 DP 289155. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Updated                                                                                                                                                                                                   | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| WMP_29                                                          | Section 1   | Introduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Open   | The introduction states "A WMP is required for submission to the Principal Certifying Authority". The WMP is required to be submitted to the ER for review and endorsement in accordance with Condition A3 (b) before submission to the Planning Secretary for approval in accordance with Condition C2. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Updated                                                                                                                                                                                                   | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| WMP_30                                                          | Section 1   | Introduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Open   | The introduction states "I.E. were engaged to prepare a WMP (inclusive of WMP) for the proposed construction activities of the development at the site". Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Updated                                                                                                                                                                                                   | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| WMP_31                                                          | Section 1   | Table 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Open   | Table 1 identifies the site as "104-021 Marine Road". Please update to "104-020 Marine Road" as per the address in the planning approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Updated                                                                                                                                                                                                   | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| WMP_32                                                          | Section 1   | Table 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Open   | Table 1 identifies the site as Lots 2 & 3 of DP 289156. The planning approval describes the site as Lot 12 DP 289155 and Lot 13 DP 289155. Please review and update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Updated                                                                                                                                                                                                   | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| WMP_33                                                          | Section 1.1 | Recycling targets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Open   | Section 1.1 states "The project will aim to recycle as much construction waste as possible during demolition and construction". As per comments above, measurable targets for recycling should be provided for the project. Please review and update and reference relevant section of the Plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Updated                                                                                                                                                                                                   | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| WMP_34                                                          | Section 1.2 | Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Open   | The 3rd set point states: The objectives of the WMP are "To satisfy Condition C1 of the development consent (ESD-1794789)". Please review and update the 3rd objective to include all relevant conditions of approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Updated                                                                                                                                                                                                   | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| WMP_35                                                          | Section 1.3 | Table 1 Development consent conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Open   | Please review and update Table 1 to address comments at the foot of this ER. Please Review: Ensure references in the table are accurate and that all relevant conditions of consent have been included.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Updated                                                                                                                                                                                                   | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| WMP_36                                                          | Section 2.2 | Statutory Obligations and Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Open   | Statutory Obligations and Requirements in Table 2 are limited to an asbestos removal licence. Please list all relevant waste management legislation and regulations including the POEW Act, Regulations and the Waste Avoidance and Resource Recovery Act 2001 (WARRR Act).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Updated                                                                                                                                                                                                   | Sydney Environmental Group | As per previous ER comment please review and update Table 2 to include the POEW Waste Regulations and the Waste Avoidance and Resource Recovery Act 2001 (WARRR Act).                                                                                                                                                     | Open                        | Updated           | Sydney Environmental Group | Document updated                                                                                                                                                                                                                                                                                                                                                             | Closed                      | NA                | NA                         | NA                        |
| WMP_37                                                          | Section 3.1 | Waste classification, tracking, transport and disposal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Open   | Section 3.1.1 states "The handling, storage and transport of hazardous materials and waste will be in accordance with the WMSMP, National Code of Practice, relevant SDS or the product, and transport minister management procedures". These requirements are antiquated and appear to be mainly safety related. Please identify what the WMSMP, and other National Code of Practice is being referred to. SDS generally apply to products rather than wastes. Please review and update terminology.<br>Please ensure relevant environmental legislation and other requirements for the classification, transport and disposal of waste have been addressed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | References to appropriate documentation now included. Chemical wastes may be removed off-site and as such, SDS controls may be relevant.<br>Relevant legislation included within Table 3 and Section 3.1. | Sydney Environmental Group | Section 3.1 has not been updated as per previous ER comments. This section should refer to waste tracking requirements (e.g. waste tracking registers, POEW Waste Regulations, waste classification, hazardous and regulated waste tracking requirements, e.g. NSW EPA Waste Local system etc.) Please review and update. | Open                        | Updated           | Sydney Environmental Group | Document updated                                                                                                                                                                                                                                                                                                                                                             | Closed                      | NA                | NA                         | NA                        |
| WMP_38                                                          | Section 3.1 | Liquid waste classification, tracking, transport and disposal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Open   | Section 3.1.1. Para 2 refers to the storage of waste oils and chemicals. Please include relevant information and details of the storage of these storage devices, and include procedures for the liquid classification, tracking, transport and disposal of liquid waste.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA                                                                                                                                                                                                        | Sydney Environmental Group | Addressed                                                                                                                                                                                                                                                                                                                 | Closed                      | NA                | NA                         | Addressed                                                                                                                                                                                                                                                                                                                                                                    | Closed                      | NA                | NA                         | NA                        |
| WMP_39                                                          | Table 4     | Demolition Waste Disposal Forecast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Open   | Please review the estimated waste volumes in Table 4 to ensure the most accurate data is presented. Please review the Waste Types in Table 4 and ensure all waste types have been included.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA                                                                                                                                                                                                        | Sydney Environmental Group | Noted                                                                                                                                                                                                                                                                                                                     | Closed                      | NA                | NA                         | Noted                                                                                                                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                        |
| WMP_40                                                          | Table 5     | Construction Waste Disposal Forecast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Open   | Please review the estimated waste volumes in Table 5 to ensure the most accurate data is presented. Please review the Waste Types in Table 4 and ensure all waste types have been included.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA                                                                                                                                                                                                        | Sydney Environmental Group | Noted                                                                                                                                                                                                                                                                                                                     | Closed                      | NA                | NA                         | Noted                                                                                                                                                                                                                                                                                                                                                                        | Closed                      | NA                | NA                         | NA                        |
| WMP_41                                                          | Section 1   | Introduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA     | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NA                                                                                                                                                                                                        | NA                         | NA                                                                                                                                                                                                                                                                                                                        | NA                          | NA                | NA                         | Please review 3rd set point with regards to ER endorsement - the referenced condition should be Condition A3(a) and not A3(b).                                                                                                                                                                                                                                               | Open                        | Updated           | Sydney Environmental Group | Addressed                 |



3 July 2024



**Anthony Murr**  
**Associate Director**  
**Project Strategy**  
**PO Box 271**  
**SUTHERLAND NSW 1499**

**By Email:** [amurr@projectstrategy.com.au](mailto:amurr@projectstrategy.com.au)

Dear Anthony,

**SSD-17647189 – 884-928 Mamre Road, Kemps Creek (Access Logistics Park)**  
**Environmental Representative (ER) – Endorsement of the Flood Management Plan (FMP) –**  
**Revision E, incorporating the Flood Emergency Response Plan**

With regards to the Access Logistics Park Flood Management Plan (FMP), I note that Revision C of the document (dated 07/05/2024) was reviewed and endorsed by myself as ER, pursuant to SSD-17647189 Condition A36(e)(i), as per letter correspondence dated 08/05/2024.

The FMP has since been reviewed by the Department of Planning, Housing and Infrastructure (DPHI), and the following key changes made to address the comments in the updated document (Revision E, dated 25/06/2024):

- Document revision number and document date updated, now Revision E, dated 25/06/2024
- Table of contents updated to include a list of appendices
- Inclusion of emergency contact numbers for key personnel
- Update of Section 5.3 to include further details regarding flood response awareness training
- Inclusion of Table 7.1 with regards to flood response triggers and measures for both the Construction and Operational phases of the development
- Update of Section 7.3 to incorporate a figure showing evacuation routes and the Emergency Assembly Point.

In my opinion, Revision E of the Access Logistics Park FMP (dated 25/06/2024) remains consistent with the requirements in or under the terms of SSD-17647189 as applicable to the construction of the Development.

Please feel free to contact me if you require anything further or would like to discuss.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Ben Bracken', written over a light blue circular stamp.

**Ben Bracken**

Environmental Representative  
Access Logistics Park  
BBEnviro Pty Ltd

Phone: 0410 409 897  
Email: [ben.bracken@bbenviro.com.au](mailto:ben.bracken@bbenviro.com.au)

Our ref: SSD-17647189-PA-30

Mr Philip Grech  
Development Manager  
Barings  
Level 19, 60 Castlereagh Street  
Sydney NSW 2000

17 July 2024

---

**Subject: Approval of the Unexpected Finds Protocol**

Dear Mr Grech

I refer to the Unexpected Finds Protocol (UFP) submitted in accordance with Conditions B86 & B89, Schedule 2 of the consent for Access Logistics Park (SSD-17647189). I also acknowledge your response to the Department's review comments and the revised UFP provided.

The Department of Planning, Housing and Infrastructure (Department) has reviewed the revised protocol and concludes it addresses the relevant conditions. As such, the following document is approved:

- Unexpected Finds Protocol, prepared by Sydney Environmental Group, 3 June 2024, Version 5

You are reminded that if there are any inconsistencies between the approved protocol and the conditions of consent, the conditions prevail.

Please ensure you make the approved documents publicly available on the project website at the earliest convenience.

Should you have any further enquiries, please contact Media Hakim, Industry Assessments, at the Department on (02) 9995 5684 or via [media.hakim@dpie.nsw.gov.au](mailto:media.hakim@dpie.nsw.gov.au).

Yours sincerely



**Lindsey Blecher**  
**Team Leader**  
**Industry Assessments**

As nominee of the Planning Secretary



8 May 2024

**Anthony Murr**  
**Associate Director**  
**Project Strategy**  
**PO Box 271**  
**SUTHERLAND NSW 1499**

**By Email:** [amurr@projectstrategy.com.au](mailto:amurr@projectstrategy.com.au)

Dear Anthony,

**SSD-17647189 – 884-928 Mamre Road, Kemps Creek (Access Logistics Park)**  
**Environmental Representative (ER) Endorsement of the Unexpected Finds Protocol**

Pursuant to SSD-17647189 Condition A36(e)(i), I have reviewed the following document as required under SSD-17647189 Condition C3(g):

- *Unexpected Finds Protocol – 884-928 Mamre Road, Kemps Creek NSW*, letter dated 19/04/2024 (Reference 2424-LTR-01-140224.v4f)

In my opinion, the document is consistent with the requirements in or under the terms of SSD-17647189 as applicable to the construction of the Development.

Refer to Attachment 1 for the ER Comment Register containing further details on the conditions of approval and other requirements applicable to the UXF Protocol, in addition to the associated ER review comments and close-out.

Please feel free to contact me if you require anything further or would like to discuss.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Ben Bracken", written over a light blue circular stamp.

**Ben Bracken**

Environmental Representative  
Access Logistics Park  
BBEnviro Pty Ltd

Phone: 0410 409 897  
Email: [ben.bracken@bbenviro.com.au](mailto:ben.bracken@bbenviro.com.au)

**Attachment 1:** ER Comment Register – UXF Protocol



ER REVIEW Access Logistics Park

|                 |                           |
|-----------------|---------------------------|
| Document        | Unexpected Finds Protocol |
| Date Issued     |                           |
| Document Number | Ref: 2424-LTR-01-140224   |
| Date Due        |                           |

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| Reviewer Name 1 | Ben Bracken (ER) (2424-LTR-01-140224-v20, dated 01/03/2024) |
| Reviewer Name 2 | Ben Bracken (ER) (2424-LTR-01-140224-v30, dated 11/04/2024) |
| Reviewer Name 3 | Ben Bracken (ER) (2424-LTR-01-140224-v40, dated 19/04/2024) |

RESPONSE AGREEMENT STATUS

☐ Open

| Environmental Representative (ER) - Review 01 (03/04/2024) |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                                                                                                                                                                                                                                           | Applicant                                                                                                                                      |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ER - Review 02 (18/04/2024) |                                         |    | Applicant                                              |                 |  | ER - Review 03 (23/04/2024) |  |  |
|------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------|----|--------------------------------------------------------|-----------------|--|-----------------------------|--|--|
| Item                                                       | Condition | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Status | Comments                                                                                                                                                                                                                                                                                  | Response Comments                                                                                                                              | By            | Reviewer Close-out Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Response Status             | Response Comments (note: Updated by ER) | By | Reviewer Close-out Comments                            | Response Status |  |                             |  |  |
| NSW CoA                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                                                                                                                                                                                                                                           |                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |                                         |    |                                                        |                 |  |                             |  |  |
| UFP_01                                                     | C1        | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:<br>a) detailed baseline data;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Open   | Consider including some details of the completed ACHAR and findings of the test excavation completed, noting that a total of 7 artefacts were recovered during the test excavation program. Refer to ACHAR in the EIS.                                                                    | Amended - Section 1.1                                                                                                                          | Steve Wallace | Noted that a single dot point has been added, however the bullet simply includes that the ACHAR uncovered 7 artefacts. This should be followed by some context regarding Aboriginal heritage risk - consider the text below taken from the ACHAR:<br><br>Based on the high levels of erosion across the area and the low density of artefacts recovered during the test excavation program, it has been concluded that the assemblage is representative of a very low density background scatter typical of the Cumberland Plain. The high levels of soil erosion and the general absence of an A2 Horizon within the stratigraphic profile indicates that archaeological deposits have likely been impacted by extensive stages of land clearance.<br><br>Therefore, there is a low potential for intact archaeological deposits to be present within the study area. | Open                        | Document updated                        | ER | Document has been updated to address previous comment. | Closed          |  |                             |  |  |
| UFP_02                                                     | C1        | b) details of:<br>i. the relevant statutory requirements (including any relevant approval, licence or lease conditions);<br>ii. any relevant limits or performance measures and criteria; and<br>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;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Open   | Primarily addressed in Section 2.1 (Development consent) - Table 2.1 (Relevant Development Consent Conditions).<br><br>Please also include the following conditions for completeness:<br><br>B86 (see below), B87, B88, C3 and Appendix 3 (Condition 23).                                 | Amended with B86-B88 & Appendix 3. C3 not relevant, as it pertains to the CEMP itself as an overarching document and its necessary inclusions. |               | Noted. Table 2.1 has been updated with the relevant conditions. Please review the cross referencing in the third column of Table 2.1, particularly reference to Section 3.2 which I think should be 4.2.<br><br>Also - minor typo under the condition requirements for B89 - ".....must be evaluated and recorded in accordance..." Should be "recorded".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Open                        |                                         |    | Document has been updated to address previous comment. | Closed          |  |                             |  |  |
| UFP_03                                                     | C1        | c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Closed | Addressed throughout the document                                                                                                                                                                                                                                                         | NA                                                                                                                                             | NA            | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed                      | NA                                      | NA | NA                                                     | Closed          |  |                             |  |  |
| UFP_04                                                     | C1        | d) a program to monitor and report on the:<br>i. impacts and environmental performance of the development; and<br>ii. effectiveness of the management measures set out pursuant to paragraph (c) above;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Closed | Reporting requirements are addressed in Section 4 (Unexpected Finds Procedure). Monitoring program is not particularly relevant to the UF Protocol.                                                                                                                                       | NA                                                                                                                                             | NA            | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed                      | NA                                      | NA | NA                                                     | Closed          |  |                             |  |  |
| UFP_05                                                     | C1        | 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;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Closed | Addressed in Section 4 (Unexpected Finds Procedure).                                                                                                                                                                                                                                      | NA                                                                                                                                             | NA            | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed                      | NA                                      | NA | NA                                                     | Closed          |  |                             |  |  |
| UFP_06                                                     | C1        | f) a program to investigate and implement ways to improve the environmental performance of the development over time;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Open   | Please include a section for the review and update of this protocol as required - in-line with over-arching CEMP review and improvement.                                                                                                                                                  |                                                                                                                                                |               | Noted that Section 6 of the plan has been updated to address this, referring to the relevant section in the CEMP for plan update and reviews.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Closed                      | NA                                      | NA | NA                                                     | Closed          |  |                             |  |  |
| UFP_07                                                     | C1        | g) a protocol for managing and reporting any:<br>i. incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);<br>ii. complaint;<br>iii. failure to comply with statutory requirements; and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Closed | Addressed in Section 6 (Performance criteria)                                                                                                                                                                                                                                             | NA                                                                                                                                             | NA            | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed                      | NA                                      | NA | NA                                                     | Closed          |  |                             |  |  |
| UFP_08                                                     | C1        | h) a protocol for periodic review of the plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Open   | Please include a section for the review and update of this protocol as required - in-line with over-arching CEMP review and improvement.                                                                                                                                                  | Included in Section 6                                                                                                                          | Steve Wallace | Noted that Section 6 of the plan has been updated to address this, referring to the relevant section in the CEMP for plan update and reviews.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Closed                      | NA                                      | NA | NA                                                     | Closed          |  |                             |  |  |
| UFP_09                                                     | C3        | As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:<br><br>(g) Unexpected Finds Protocol (see Conditions B86 and B89);                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Closed | This plan                                                                                                                                                                                                                                                                                 | NA                                                                                                                                             | NA            | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Closed                      | NA                                      | NA | NA                                                     | Closed          |  |                             |  |  |
| UFP_10                                                     | B86       | Prior to the commencement of earthworks, the Applicant must implement the recommendations outlined in Section 8 of the Aboriginal Cultural Heritage Assessment Report, prepared by Austral Archaeology Pty Ltd and dated 9 July 2021.<br><br>Section 8 of the ACHAR includes the following requirement with regards to unexpected finds:<br><br>3. In the event that human remains are identified, all works in the vicinity must cease immediately. The find must be left in place and protected from any further harm. Depending on the nature of the find, the following processes must be followed:<br><br>1. If human skeletal remains are encountered, all work must cease immediately and NSW Police must be contacted; they will then notify the Coroner's Office. Following this, if the remains are believed to be of Aboriginal origin, then the Aboriginal stakeholders and Heritage NSW must be notified. | Open   | The procedure detailed in Section 4.2 (Unexpected Finds Procedure (Heritage)) does not align specifically with the requirements required under Section 8 of the ACHAR. Review and update, ensuring that the requirement to contact NSW Police in the event of discovery of human remains. | Amended - Section 4.2                                                                                                                          | Steve Wallace | Document updated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Closed                      | NA                                      | NA | Document updated.                                      | Closed          |  |                             |  |  |
| UFP_11                                                     | B87       | If any item or object of Aboriginal heritage significance is identified on site:<br>(a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately;<br>(b) a 10 m wide buffer area around the suspected item or object must be cordoned off; and<br>(c) Heritage NSW must be contacted immediately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Open   | The procedure detailed in Section 4.2 (Unexpected Finds Procedure (Heritage)) does not align specifically with the requirements of Condition B87. Review and update, ensuring specific buffer requirements and contact Heritage NSW.                                                      | Amended                                                                                                                                        | Steve Wallace | Document updated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Closed                      | NA                                      | NA | Document updated.                                      | Closed          |  |                             |  |  |
| UFP_12                                                     | B88       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Open   | Update document to include this specific requirement.                                                                                                                                                                                                                                     | Amended - Section 4.2                                                                                                                          | Steve Wallace | Document updated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Closed                      | NA                                      | NA | Document updated.                                      | Closed          |  |                             |  |  |

| Environmental Representative (ER) - Review 01 (03/04/2024) |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                                                                                                                                                                                                                                                        | Applicant              |               | ER - Review 02 (18/04/2024) |                 | Applicant                               |    | ER - Review 03 (23/04/2024) |                 |
|------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-----------------------------|-----------------|-----------------------------------------|----|-----------------------------|-----------------|
| Item                                                       | Condition   | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Status | Comments                                                                                                                                                                                                                                                                                               | Response Comments      | By            | Reviewer Close-out Comments | Response Status | Response Comments (note: Updated by ER) | By | Reviewer Close-out Comments | Response Status |
| UFP_13                                                     | 889         | If any archaeological relics are uncovered during the course of the work, then all works must cease immediately in that area. Unexpected finds must be evaluated and recorded in accordance with the requirements of Heritage NSW.                                                                                                                                                                                                                                          | Closed | Addressed in Section 4.2 (Unexpected Finds Procedure (Heritage))                                                                                                                                                                                                                                       | NA                     | NA            | NA                          | Closed          | NA                                      | NA | NA                          | Closed          |
| UFP_14                                                     | 899         | Prior to the commencement of earthworks, the Applicant must prepare an unexpected contamination 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 must be disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site. | Closed | Addressed in Section 4.1 (Unexpected Finds Procedure (Contamination))                                                                                                                                                                                                                                  | NA                     | NA            | NA                          | Closed          | NA                                      | NA | NA                          | Closed          |
| UFP_15                                                     | Appendix 3  | Unforeseen Aboriginal objects are uncovered during construction the unexpected finds protocol will be followed. Work will cease in the area, and the NSW Office of Environment and Heritage will be informed.                                                                                                                                                                                                                                                               | Open   | Update document to include this specific requirement.                                                                                                                                                                                                                                                  | Amended - Section 4.2. | Steve Wallace | Document updated.           | Closed          |                                         |    | Document updated.           | Closed          |
| Updated Management Measures                                |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                                                                                                                                                                                                                                                        |                        |               |                             |                 |                                         |    |                             |                 |
| UFP_16                                                     | 23          | Unforeseen Aboriginal objects are uncovered during construction the unexpected finds protocol will be followed. Work will cease in the area, and the NSW Office of Environment and Heritage will be informed.                                                                                                                                                                                                                                                               | Closed | Closed and addressed above against Appendix 3, Condition 23.                                                                                                                                                                                                                                           | NA                     | NA            | NA                          | Closed          | NA                                      | NA | NA                          | Closed          |
| Improvements                                               |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                                                                                                                                                                                                                                                        |                        |               |                             |                 |                                         |    |                             |                 |
| UFP_17                                                     | Section 1.1 | Overview                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Open   | Second paragraph includes reference to the 'client'. Define client.                                                                                                                                                                                                                                    | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |
| UFP_18                                                     | Section 1.1 | Overview                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Open   | Similar to contamination, include further details to the Aboriginal Cultural Heritage Assessment completed by Austral Archaeology, 2021 (refer to EIS).<br>Also, the ACHAR notes that a total of 7 artefacts were recovered during the test excavation program - which contradicts bullet point no. 4. | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |
| UFP_19                                                     | Section 2   | Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Open   | Third dot-point: Review and update inline with comments above - Refer to UFP_02                                                                                                                                                                                                                        | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |
| UFP_20                                                     | Section 4.1 | Unexpected Finds Procedure (Contamination)                                                                                                                                                                                                                                                                                                                                                                                                                                  | Open   | Third box in flow-chart - include also placement of signage advising restricted area / exclusion zone.                                                                                                                                                                                                 | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |
| UFP_21                                                     | Section 4.1 | Unexpected Finds Procedure (Contamination)                                                                                                                                                                                                                                                                                                                                                                                                                                  | Open   | Include some flow-arrows to assist with working through the steps - this is particularly important for the step following "If assessed as not presenting an unacceptable risk to human health or the environment"                                                                                      | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |
| UFP_22                                                     | Section 4.2 | Unexpected Finds Procedure (Heritage)                                                                                                                                                                                                                                                                                                                                                                                                                                       | Open   | Include some flow-arrows to assist with working through the steps - this is particularly important for the step following "If assessed as not heritage".                                                                                                                                               | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |
| UFP_23                                                     | Section 5   | Training                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Open   | Include cross reference to Section 3 of the CEMP in relation to induction / training requirements.                                                                                                                                                                                                     | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |
| UFP_24                                                     | Section 6   | Performance criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Open   | Ensure that the incident / non-conformance process is consistent with the CEMP.<br>Include a cross-reference to Section 3 of the CEMP for the management and handling of non-compliance issues.                                                                                                        | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |
| UFP_25                                                     | Section 6   | Performance criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Open   | The second paragraph makes reference to "The frequency and specific monitoring criteria will be assessed periodically throughout the project to ensure objectives are being met."                                                                                                                      | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |
| UFP_26                                                     | Section 6   | Performance criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Open   | It is unclear how this relates to the UFP.<br>Third paragraph - include cross reference to the Project's Community Consultation and Complaints Management Strategy with regards to the handling / management of complaints.                                                                            | Amended.               | Steve Wallace | Document updated.           | Closed          | NA                                      | NA | Document updated.           | Closed          |

## Harry Peter

---

**From:** Grech, Philip <philip.grech@barings.com>  
**Sent:** Wednesday, 5 June 2024 10:00 AM  
**To:** Zacharia Youssef; Dylan Ible  
**Cc:** Anthony Murr  
**Subject:** FW: Access Logistics Park - CEMP SubPlans\_CC&CHS - More Information Required

Morning Gents,

Please see the below from DPHI – CCH&HS is approved to be included as part of the CEMP. No further changes required – good one!!!

Regards

### Philip Grech

Development Manager | Development, Real Estate  
Sydney  
0424 613 115

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Barings-Corporate

**From:** no-reply@majorprojects.planning.nsw.gov.au <no-reply@majorprojects.planning.nsw.gov.au>  
**Sent:** Wednesday, 5 June 2024 9:58 AM  
**To:** stephen.oconnor@altisproperty.com.au  
**Cc:** Grech, Philip <philip.grech@barings.com>; rebecka.groth@dpie.nsw.gov.au  
**Subject:** [EXTERNAL] Access Logistics Park - CEMP SubPlans\_CC&CHS - More Information Required

Dear Stephen ,

I refer to the CEMP SubPlans\_CC&CHS you have submitted for the Access Logistics Park .

The Department is requesting you provide additional information before accepting the document.

Planner's Comments for additional information request: As previously advised, please submit this document with CEMP document ensuring that the Department's earlier comments are incorporated into the revised strategy. The Department will not undertake a further review of this strategy.

Please access your profile for more details of this request and to resubmit your document.

If you have any enquiries, please contact Rebecka Groth on 02 82751723 /at rebecka.groth@dpie.nsw.gov.au.

To sign in to your account click [here](#) or visit the Major Projects Website.

Please do not reply to this email.

Kind regards





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8 May 2024

**Anthony Murr**  
**Associate Director**  
**Project Strategy**  
**PO Box 271**  
**SUTHERLAND NSW 1499**

**By Email:** [amurr@projectstrategy.com.au](mailto:amurr@projectstrategy.com.au)

Dear Anthony,

**SSD-17647189 – 884-928 Mamre Road, Kemps Creek (Access Logistics Park)**  
**Environmental Representative (ER) – Endorsement of the Community Consultation and**  
**Complaints Handling Strategy (CCCHS)**

Pursuant to SSD-17647189 Condition A36(e)(i), Jo Heltborg (Alternate ER) has reviewed the following document as required under SSD-17647189 Condition C3(h):

- *Community Consultation and Complaints Handling Strategy - Access Logistics Estate, Mamre Rd, Kemps Creek (CCCHS), Revision 3 dated 19/04/2024.*

In the opinion of the Alternate ER, the document is consistent with the requirements in or under the terms of SSD-17647189 as applicable to the construction of the Development.

Refer to Attachment 1 for the ER Comment Register containing further details on the conditions of approval and other requirements applicable to the CCCHS, in addition to the associated ER review comments and close-out.

Please feel free to contact myself or Jo Heltborg if you require anything further or would like to discuss.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Ben Bracken", written over a light blue circular stamp.

**Ben Bracken**

Environmental Representative  
Access Logistics Park  
BBEnviro Pty Ltd

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**Attachment 1:** ER Comment Register - CCCHS

ER REVIEW

Access Logistics Park

|                 |                                                                        |
|-----------------|------------------------------------------------------------------------|
| Document        | Community Consultation and Complaints Handling Strategy                |
| Date Issued     |                                                                        |
| Document Number |                                                                        |
| Date Due        |                                                                        |
| Reviewer Name 1 | Jo Halborg (Alternate ERI/CCCHS - Initial Draft (No date on document)) |
| Reviewer Name 2 | Jo Halborg (Alternate ERI/CCCHS - Revision 1, dated 02/04/2024)        |
| Reviewer Name 3 | Jo Halborg (Alternate ERI/CCCHS - Revision 3, dated 19/04/2024)        |

RESPONSE AGREEMENT STATUS

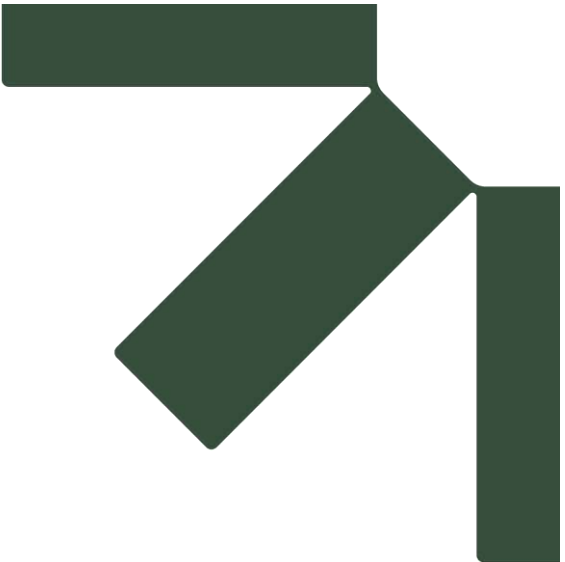
☐ Open

| Environmental Representative (ER) - Review 01 (25/03/2024) |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | ER - Review 02 (17/4/2024)                                                                                                                                                               |                                |    |                             | ER - Review 03 (20/4/2024) |                                |    |                             |                    |
|------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----|-----------------------------|----------------------------|--------------------------------|----|-----------------------------|--------------------|
| Item                                                       | Condition | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Status | Comments                                                                                                                                                                                 | Applicant<br>Response Comments | By | Reviewer Close-out Comments | Response<br>Status         | Applicant<br>Response Comments | By | Reviewer Close-out Comments | Response<br>Status |
| SSD-17647189                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                                                                                                                                                                          |                                |    |                             |                            |                                |    |                             |                    |
| CCS_01                                                     | A36 (d)   | The Applicant must engage an Environmental Representative (ER) to oversee earthworks, subdivision and construction of the development. Unless otherwise agreed to by the Planning Secretary, the earthworks and 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:<br><br>(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;                                                             | Closed | Addressed in Section 5.                                                                                                                                                                  | NA                             | NA | NA                          | Closed                     | NA                             | NA | NA                          | Closed             |
| CCS_02                                                     | A36 (h)   | as may be requested by the Planning Secretary, assist the Department in the resolution of community complaints;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Closed | Addressed in Section 5.                                                                                                                                                                  | NA                             | NA | NA                          | Closed                     | NA                             | NA | NA                          | Closed             |
| CCS_03                                                     | A39(e)    | Within three months of the commencement of earthworks for the development and until all components of the development are constructed and operational, the Applicant must 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:<br><br>(e) review community concerns or complaints with respect to environmental management; | Open   | Check wording in Table 1 to ensure it aligns with Condition A39(e) in the planning approval.                                                                                             | Addressed in Table 1           |    | Addressed                   | Closed                     | NA                             | NA | NA                          | Closed             |
| CCS_04                                                     | B1(g)     | Prior to the commencement of earthworks for 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:<br><br>(g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.                                                                                                                                                                                              | Open   | Check wording in Table 1 to ensure it aligns with Condition B1(g) in the planning approval.                                                                                              | Addressed in Table 1           |    | Addressed                   | Closed                     | NA                             | NA | NA                          | Closed             |
| CCS_05                                                     | B60(e)    | 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:<br><br>(e) include strategies that have been developed with the community for managing high noise generating works including acoustic screens around the perimeter of the site; and                                                                                                                                                                                                              | Open   | Check wording in Table 1 to ensure it aligns with Condition B60(e) in the planning approval.                                                                                             | Addressed in Table 1           |    | Addressed                   | Closed                     | NA                             | NA | NA                          | Closed             |
| CCS_06                                                     | B60(f)    | (f) describe the community consultation undertaken to develop the strategies in condition B60(e).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Open   | Check wording in Table 1 to ensure it aligns with Condition B60(f) in the planning approval.                                                                                             | Addressed in Table 1           |    | Addressed                   | Closed                     | NA                             | NA | NA                          | Closed             |
| CCS_07                                                     | B60(g)    | (g) include a complaints management system that would be implemented for the duration of the development.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Open   | Check wording in Table 1 to ensure it aligns with Condition B60(g) in the planning approval.<br>Table includes reference to B60(h) - this condition does not exist. It should be B60(g). | Addressed in Table 1           |    | Addressed                   | Closed                     | NA                             | NA | NA                          | Closed             |
| CCS_08                                                     | B74       | The Applicant must offer and prepare (if the offer is accepted) a pre-dilatation and post-dilatation survey at 930-966 Mamre Road Kemps Creek:<br>(a) prior to the commencement of construction; and<br>(b) within one month of the conclusion of construction, or as otherwise agreed with the Planning Secretary.<br>The surveys must be submitted to the Planning Secretary and the relevant property owners prior to construction works commencing on the site.                                                                                                                                                           | Open   | Consider including reference to Condition B74 in the CCS - Table 1 and relevant section of the document.                                                                                 | Addressed in Table 1           |    | Addressed                   | Closed                     | NA                             | NA | NA                          | Closed             |
| CCS_09                                                     | B75       | Should the survey at Condition B74(b) identify any damage, the Applicant must discuss the repairs to be undertaken with the relevant property owners, and repair or pay the full costs associated with repairing any part of the building that is determined to be damaged by the carrying out construction works associated with the development.                                                                                                                                                                                                                                                                            | Open   | Consider including reference to Condition B75 in the CCS - Table 1 and relevant section of the document.                                                                                 | Addressed in Table 1           |    | Addressed                   | Closed                     | NA                             | NA | NA                          | Closed             |
| CCS_10                                                     | B83(f)    | Prior to the commencement of operation, 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:<br><br>(f) outline procedures that will be implemented in relation to:<br>(iii) complaints register;<br>(iv) response procedures;                                                                                                                                                                                                                                                | Open   | Check wording in Table 1 to ensure it aligns with Condition B83(f) in the planning approval.<br><br>Include correct reference to Figure number.                                          | Addressed in Table 1           |    | Addressed                   | Closed                     | NA                             | NA | NA                          | Closed             |



| Environmental Representative (ER) - Review 01 (25/03/2024)     |                     |                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicant                                                                                                                                                                                                                                                                                                                                                                                                     |    | ER - Review 02 (17/4/2024)                                                                                                                  |                 |                                                                                                                                                                                                  | Applicant |                                                  | ER - Review 03 (20/4/2024) |  |  |
|----------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------|----------------------------|--|--|
| Item                                                           | Condition           | Requirement                                                                                                                                                                                                                                                                | Status | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Response Comments                                                                                                                                                                                                                                                                                                                                                                                             | By | Reviewer Close-out Comments                                                                                                                 | Response Status | Response Comments                                                                                                                                                                                | By        | Reviewer Close-out Comments                      | Response Status            |  |  |
| CCS_11                                                         | B103                | The Applicant must consult with the community regularly throughout the development, including consultation with the nearby sensitive receivers identified in Appendix 2, relevant regulatory authorities, Registered Aboriginal Parties and other interested stakeholders. | Open   | <p>Check wording in Table 1 to ensure it aligns with Condition B103 in the planning approval.</p> <p>It is noted that a part of this condition requires ongoing consultation with the Registered Aboriginal Parties. There is no mention of Registered Aboriginal Parties within the CCS.</p> <p>Section 8 (Recommendations) of the Aboriginal Cultural Heritage Assessment completed as part of the EIS includes the following recommendation:</p> <p>4. "It is recommended that the proponent continues to inform the Aboriginal stakeholders about the management of Aboriginal cultural heritage within the study area throughout the completion of the project. The consultation outlined as part of this ACHA is valid for 6 months and must be maintained by the proponent for it to remain continuous. If a gap of more than 6 months occurs, then the consultation will not be suitable for the project and may need to re-commence".</p> <p>This also does not appear to have been addressed.</p> <p>Suggest inclusion of these requirements in the CCS, unless they have been addressed in another Plan. If this is the case, please reference the relevant Plan.</p> | <p>Wording addressed in Table 1</p> <p>Need clarification as to whether the contractor or the client will be responsible for any ongoing consultation with Aboriginal stakeholders. Consent conditions stipulate establishment of a working group but does not say whether this falls on the contractor or client. It is likely this group would be active in management of Aboriginal cultural heritage.</p> |    | Comment remains open. Contractor / Client to confirm responsibility for consultation with RAPs - would this be stipulated in the Contract?? | Open            | (Burton Contractors 19/04/2024) - Added in of the Community Consultation and Complaints Handling Strategy section 4 Procedures and Methods as the last item in Table 3 Communication Activities. |           | Document has been updated to address the comment | Closed                     |  |  |
| CCS_12                                                         | C1(g)(i)            | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:                                                                                                                                                         | Closed | Addressed in Section 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                                                                                                                          | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_13                                                         | C1(h)               | (i) a protocol for managing and reporting any:                                                                                                                                                                                                                             | Open   | Include reference to Condition C1(h) in Table 1, and relevant section of the Plan. A new section on Plan review may be required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Addressed in Section 6                                                                                                                                                                                                                                                                                                                                                                                        |    | 6-monthly review stipulated in Section 6                                                                                                    | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_14                                                         | C3(h)               | (ii) complaint.                                                                                                                                                                                                                                                            | Closed | Addressed in Section 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                                                                                                                          | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_15                                                         | C17                 | (h) Community Consultation and Complaints Handling:                                                                                                                                                                                                                        | Open   | As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Addressed in Table 1                                                                                                                                                                                                                                                                                                                                                                                          |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| Applicant's Management Measures - Planning Approval Appendix 3 |                     |                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                                                                             |                 |                                                                                                                                                                                                  |           |                                                  |                            |  |  |
| CCS_16                                                         | 12                  | (a) make the following information and documents (as they are obtained or approved) publicly available on its website:                                                                                                                                                     | Closed | The Plan (CCS) provided for review satisfies this requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                                                                                                                          | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| Improvements                                                   |                     |                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                                                                             |                 |                                                                                                                                                                                                  |           |                                                  |                            |  |  |
| CCS_17                                                         | General             | General                                                                                                                                                                                                                                                                    | Open   | Provide document revision number, author details, approver details and date of internal approval. Include a revision history table to enable tracking of future revisions and updates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Addressed under Introduction on Page 3                                                                                                                                                                                                                                                                                                                                                                        |    | Update document review table to include Rev 2                                                                                               | Open            | (Burton Contractors 19/04/2024) Addressed. Please see page 3 of the Community Consultation and Complaints Handling Strategy.                                                                     |           | Document has been updated to address the comment | Closed                     |  |  |
| CCS_18                                                         | Section 1.1 Table 1 | Development Consent Conditions requirements                                                                                                                                                                                                                                | Open   | Table 1 includes reference to Condition C6 which is in relation to the Operational Environmental Management Plan (OEMP) and is therefore not applicable to the Construction phase.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Have clarified that the project only relates to managing stakeholder interaction during the construction phase by:                                                                                                                                                                                                                                                                                            |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_19                                                         | Section 3           | General                                                                                                                                                                                                                                                                    | Open   | The purpose of the CCS should be made clear in the introduction - does the Plan aim to cover construction and operational requirements for the development, or is it limited to construction? If the latter, please remove reference to operational requirements throughout.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - Amending the Introduction<br>- Removing all references to operational requirements                                                                                                                                                                                                                                                                                                                          |    |                                                                                                                                             | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_20                                                         | Section 3           | Table 2                                                                                                                                                                                                                                                                    | Open   | 2nd Para - Replace 'while' with 'which'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Addressed in Section 3                                                                                                                                                                                                                                                                                                                                                                                        |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_21                                                         | Section 3           | Table 2                                                                                                                                                                                                                                                                    | Open   | Column 1 refers to 'surrounding properties' - Are these properties residential, commercial/industrial or other, please specify. Suggest sorting into residential and non-residential.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Addressed - Have stated 'Surrounding residential stakeholders within a 500m radius of the construction zone'. While it appears many properties are either combined residential and commercial or just residential, having reviewed the Heritage Impact Statement and Social Impact Assessment, definitive classification of properties within 500m is inconclusive.                                           |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_22                                                         | Section 3           | Table 2                                                                                                                                                                                                                                                                    | Open   | Please confirm (and specify) whether the list in Table 2 includes all sensitive receivers identified in Appendix 2 of the planning approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Addressed - all properties included in Appendix 2. Noise sensitive receivers captured                                                                                                                                                                                                                                                                                                                         |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_23                                                         | Section 4.1         | Proposed consultation methods                                                                                                                                                                                                                                              | Open   | Replace 'QPI Group' with relevant responsible party.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Addressed in Section 4.1                                                                                                                                                                                                                                                                                                                                                                                      |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_24                                                         | Section 4.1         | Table 3 - Website                                                                                                                                                                                                                                                          | Open   | Column 4 - Replace 'earthworks' with 'construction' to align with the wording and definitions in the planning approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Addressed in Section 4.1                                                                                                                                                                                                                                                                                                                                                                                      |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_25                                                         | Section 4.1         | Table 3 - Complaints Channels                                                                                                                                                                                                                                              | Open   | CoA/Cb(i) is a requirement of the Operational EMP (OEMP). Refer to Comment #CCS_18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Addressed - replaced by other relevant conditions                                                                                                                                                                                                                                                                                                                                                             |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_26                                                         | Section 4.1         | Table 3 - Construction start letter                                                                                                                                                                                                                                        | Open   | CoA/Cb(i) is a requirement of the OEMP. Refer to Comment #CCS_18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Addressed - reference to CoA/Cb(i) removed                                                                                                                                                                                                                                                                                                                                                                    |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_27                                                         | Section 4.1         | Table 3 - Construction start letter                                                                                                                                                                                                                                        | Open   | Column 2, Last Para - All potentially impacted stakeholders should receive a copy of notifications. These should be letter-box dropped if verified email addresses are not available. Please update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Addressed in Table 3                                                                                                                                                                                                                                                                                                                                                                                          |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_28                                                         | Section 4.1         | Table 3 - High-impact work notification letter                                                                                                                                                                                                                             | Open   | Condition B46 is referenced but relates to stormwater harvesting. Please update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Addressed - reference to B46 removed                                                                                                                                                                                                                                                                                                                                                                          |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_29                                                         | Section 4.1         | Table 3 - High-impact work notification letter                                                                                                                                                                                                                             | Open   | CoA/Cb(i) is a requirement of the OEMP. Refer to Comment #CCS_18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Addressed - reference to CoA/Cb(i) removed                                                                                                                                                                                                                                                                                                                                                                    |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |
| CCS_30                                                         | Section 4.1         | Table 3 - High-impact work notification letter                                                                                                                                                                                                                             | Open   | Column 2, Last Para - All potentially impacted stakeholders should receive a copy of notifications. These should be letter-box dropped if verified email addresses are not available. Please update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Addressed in Table 3                                                                                                                                                                                                                                                                                                                                                                                          |    | Addressed                                                                                                                                   | Closed          | NA                                                                                                                                                                                               | NA        | NA                                               | Closed                     |  |  |

| Environmental Representative (ER) - Review 01 (25/03/2024) |             |                                                           |        |                                                                                                                                                                                                         | Applicant                                           |    | ER - Review 02 (17/4/2024)                                                                            |                 | Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | ER - Review 03 (20/4/2024)                       |                 |
|------------------------------------------------------------|-------------|-----------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----|-------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------|-----------------|
| Item                                                       | Condition   | Requirement                                               | Status | Comments                                                                                                                                                                                                | Response Comments                                   | By | Reviewer Close-out Comments                                                                           | Response Status | Response Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | By | Reviewer Close-out Comments                      | Response Status |
| CCS_31                                                     | Section 4.1 | Table 3 - Unplanned out of hours work notification letter | Open   | Column 2, Last Para - All potentially impacted stakeholders should receive a copy of notifications. These should be letter-box dropped if verified email addresses are not available. Please update.    | Addressed in Table 3                                |    | Addressed                                                                                             | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                               | Closed          |
| CCS_32                                                     | Section 5   | 1st Para                                                  | Open   | Reference is made to Table 1. Please amend to Table 4.                                                                                                                                                  | Addressed in Table 3                                |    | Addressed                                                                                             | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                               | Closed          |
| CCS_33                                                     | Section 5   | 2nd Para                                                  | Open   | Please provide relevant contact details in the CCS, i.e. project website address, contact number, email & postal address.                                                                               | Addressed - relevant Section referenced in document |    | Reference is made to contact details in Section 9 of the CCHS. There is no Section 9. Please address. | Open            | (Burton Contractors 19/04/2024) - Community Consultation and Complaints Handling Strategy consulted in section 5 Complaints Management to read, 'Burton Contractors Community Relations Team member and Project contact and relevant information can be found in Table 5 Project contact details for stakeholder enquiries and complaints of this document.'                                                                                                                                                  | -  | Document has been updated to address the comment | Closed          |
| CCS_34                                                     | Section 5   | 2nd Para                                                  | Open   | Refers to 'a member of the Burton Contractors Community Relations Team'. Please specify role responsible for ensuring this occurs.                                                                      | As above                                            |    | ER comment not addressed. Please address.                                                             | Open            | (Burton Contractors 19/04/2024) - Community Consultation and Complaints Handling Strategy updated in section 5 Complaints Management to read, 'Burton Contractors Community Relations Team member will help to maintain good relations between the project works and members of a community by providing written and verbal updates to those working and living in communities, facilitate negotiation processes and resolve conflicts'. Also, section 5.3 Complaint Channel contact person has been updated. | -  | Document has been updated to address the comment | Closed          |
| CCS_35                                                     | Section 5   | Table 4 - Row 1                                           | Open   | States 'Record details of complaint received' - Please specify where the complaint will be recorded, e.g. is there a complaints management system that will be used? Complaints and Enquiries Register? | Addressed in Table 4                                |    | Addressed                                                                                             | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                               | Closed          |
| CCS_36                                                     | Section 5.2 | 2nd Para                                                  | Open   | Refers to Conditions A33(d) & (h) and A36(e) - Please check and amend                                                                                                                                   | Addressed in Section 5.2                            |    | Addressed                                                                                             | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                               | Closed          |
| CCS_37                                                     | Section 5.3 | Table 4 (b)                                               | Open   | Table 4 heading should be Table 5. Please amend                                                                                                                                                         | Addressed in Table 5                                |    | Addressed                                                                                             | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                               | Closed          |
| CCS_38                                                     | Section 5.3 | Table 4 (b) - Contact Person                              | Open   | Please include role of contact person                                                                                                                                                                   | Addressed in Table 5                                |    | Addressed                                                                                             | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                               | Closed          |
| CCS_39                                                     | Section 5.3 | Table 4 (b) - Phone number                                | Open   | Will there be a community complaints line established? If so, please include the correct phone number rather than mobile of individual                                                                  | No stipulation for establishment of complaints line |    | Noted                                                                                                 | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                               | Closed          |
| CCS_40                                                     | Section 6   | Ongoing Monitoring                                        | Open   | Please include proposed frequencies for documented monitoring activities                                                                                                                                | Addressed in 1st Para of Section 6                  |    | Addressed                                                                                             | Closed          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NA                                               | Closed          |



## Appendix M    Site Induction





# **Access Estate Job No: 430 Site Induction**

**BURTON**  
Civil Engineering Contractors

# Revision Control

[illegible]

## **Induction Form**

Fill out your personal details. Complete the questionnaire as we go through the induction or at the end.

## **White Cards and Licenses / Tickets**

Provide your white card and other licenses / tickets you need to operate on site for photocopying.

## **Safe Work Method Statements**

Read & acknowledge relevant SWMS for your work activity.

## **Environmental Work Method Statements**

Read & acknowledge EWMS as required.



# Introduction

**Burton Contractors Pty Ltd** are the Principal Contractor for the  
**Access Estate – Project.**

**Client:** Altis-Barings  
**Superintendent:** Project Strategy

This site induction sets out the *safety*, *environmental*, *quality* and *industrial relations* requirements for the project.



**All work must be carried out in accordance with:**

- WHS Act 2011,
- WHS Regulation 2017,
- Protection of the Environment Operations Act 1997,
- Fair Work Act 2009,
- Anti-Discrimination Act 1977, and
- Other applicable Acts, Regulations, Codes of Practice, Standards and Specifications as they become relevant to the works.

There is a Project Management Plan (PMP) in place that sets out the specific policies, processes, and resource structure to be implemented by Burton Contractors for the Wallgrove Road Upgrade Project for safety, quality, environment.

# HSEQ Statement

Burton Contractors is committed to the continual improvement of work health safety and environmental performance throughout the organisation.

This is an all-encompassing commitment achieved through implementing innovative strategies toward:

- Reducing workplace injuries and incidents and enriching the safety culture of the organisation,
- Preventing pollution and accomplishing environmental sustainability, and
- Improving processes to ensure high quality products are delivered to our clients.

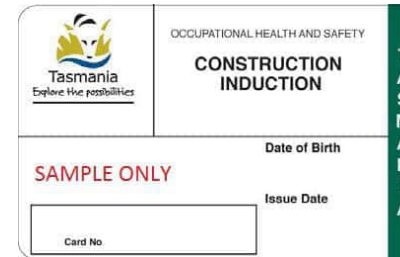
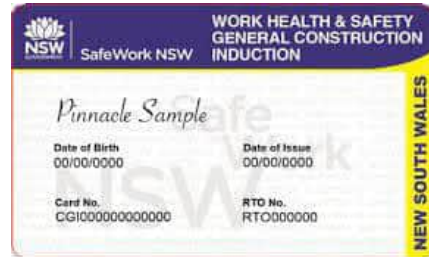
*The complete HSEQ policy is displayed in the lunchroom.*



# Verification of Competency

All workers must have:

- A Construction General Induction Card (white card).



Workers performing high risk work must also provide:

- Current in date photo ticket issued by WorkCover NSW



# Verification of Competency

**Workers performing plant operations that are not Safe Work NSW 'High Risk Work Licences' must demonstrate evidence of competency. The following is acceptable:**

- Expired Certificate of Competency issued by Work Cover NSW (pre-Sept 2011) if the operator can confirm they have continually operated the type of plant since its expiry; or
- Current in-date industry VOC card; or
- On-the-job training logbook certified by an RTO (Registered Training Organisation)

A Letter of Competency from your current employer can also be provided however will not be accepted on its own.



# Work Health Safety Legislation

**Everyone on site** is responsible for the health and safety of themselves and others.

## **WHS Act 2011:**

SafeWork NSW can prosecute individuals – **not just employers** - for breaches of the WHS Act.

Category 1 Offence (individuals)- \$300 000 fine and / or 5 years imprisonment.

Category 2 Offence (individuals) - \$150 000 fine.

Category 3 Offence (individuals) - \$50 000 fine.

SafeWork NSW can also issue on the spot fines for infringements of the WHS Act.



**SafeWork NSW**



Health & Safety  
AS 4801  
SAI GLOBAL



**NO MATTER WHAT YOU DO,  
SAFETY STARTS WITH YOU.**

[safetystartswithyou.nsw.gov.au](http://safetystartswithyou.nsw.gov.au)

**While you are at work, you have the following duties under the WHS 2011 Act:**

- Take reasonable care for your own health and safety,
- Take reasonable care for the health and safety of others, and
- Comply with any reasonable policies , procedures or instructions given by Burton Contractors.



## TRAFFIC:

- Traffic volumes passing on Mamre Road **AM** peak is **0600 – 0700** with 110 vehicle movements and **PM** Peak **1700 – 1800** with 155 vehicle movements.

## UTILITIES:

**THE RISK FROM THE FOLLOWING SERVICES CANNOT BE HIGHLIGHTED ENOUGH!**

- Overhead services
- Underground services
- Sydney water and sewer infrastructure

Minimum controls:

- Ensure you have an Excavation Permit/ High Risk Trench Permit for any ground penetrations
- Overhead lines are identified using heights ordinance on the ground
- Plan to have a spotter while working around services
- Services to be NDD/potholed and marked

# Key Project Risks

## **MOBILE PLANT:**

- Heavy plant moving around site – remain in your work area only.
- Vehicle Movement inside barriers & compound: 20 km/h.
- No workers on foot allowed within 5m of operational mobile plant unless plant has ceased activity & operator is aware of your approach.

## **WORKING ALONE:**

- Minimum of 2 persons on-site (In case of emergency).

## **ENVIRONMENT:**

- Noise, vibration and dust from construction operations negatively impacting residents & stakeholder.
- If an unexpected find occurs, cease work, protect the immediate site and report to your supervisor.
- Environmental exclusion zones to be observed.

## **COMMUNITY:**

- Ensure pedestrian access is safe always and is isolated from Burton work areas.
- Be polite and respectful – direct any queries to the Supervisor or Project Manager.





Workers have the right to elect their method of consultation. This can be via WHS Committee, HSR, Toolbox Talk or other agreed method.

**Burton Contractors use the following methods to consult with workers:**

- Daily Pre-start Meetings – all Burton staff and subcontractors must attend and are welcome participate. Daily Pre-starts are held 7AM every other day of the week at the Site Office,
- Weekly Consultative Toolbox Talks – all Burton staff and subcontractors must attend and are welcome to participate. The Toolbox Talk is conducted at 7am on Thursday at the Site Office, and
- Forums – held on site as required. May include training and information sessions.

If you would like a different method of consultation – please raise this with the Site Supervisor or WHS Coordinator on site.

## **HSECC: Health Safety Environment Consultative Committee**

All workers have the right to request a HSECC (5 or more required to request) for site,

The HSECC Committee is designed to identify and control HSE issues present on site,

Alternatively, you can raise HSE issues with the Site Supervisor, WHS Coordinator or Environmental Coordinator.

If you request a Committee for site, please notify the WHS Coordinator so volunteers can be sought.

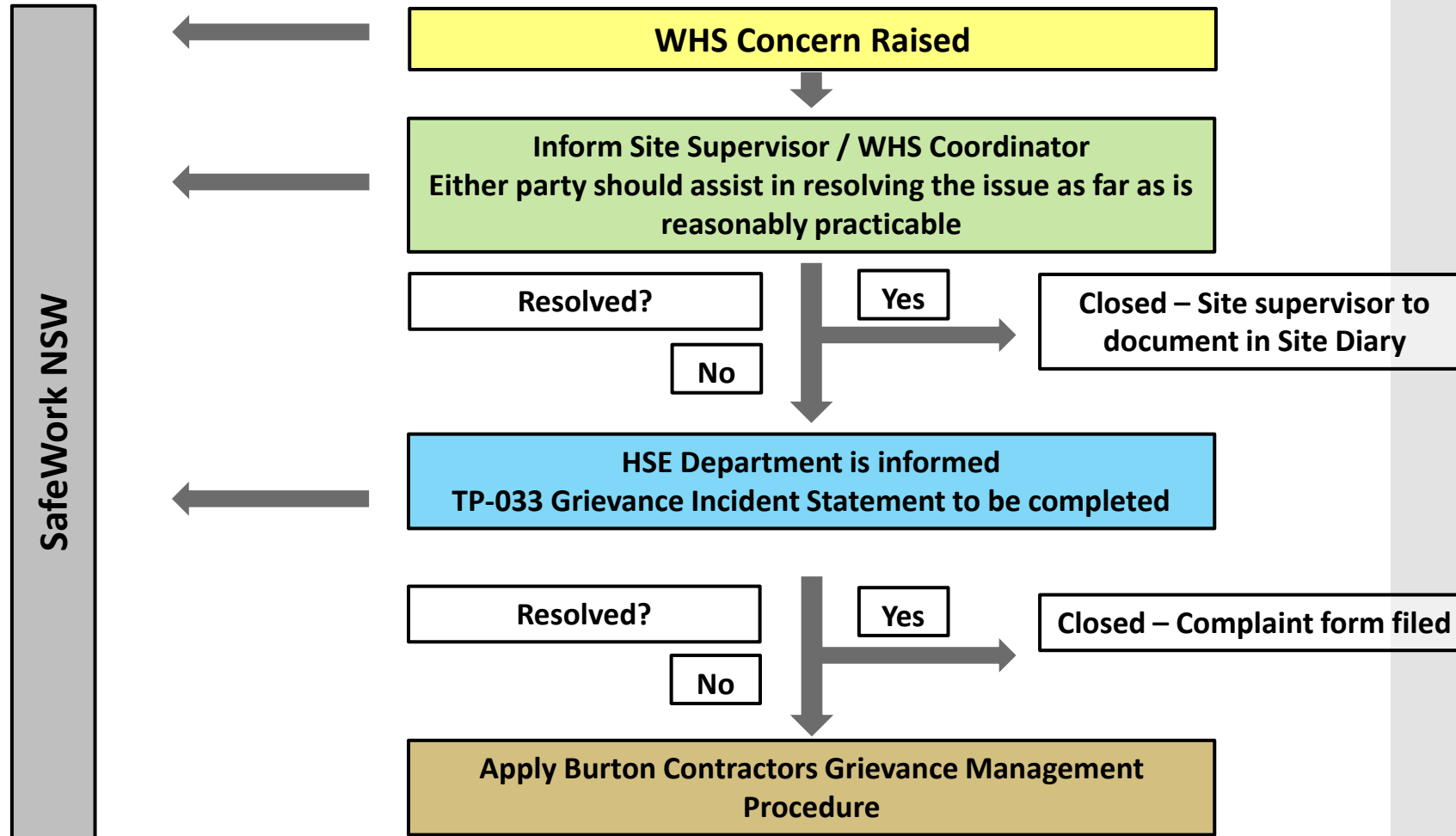
## **HSR's: Health & Safety Representatives**

All workers have the right to request a Health & Safety Representative for their site.

HSR's have powers protected under the WHS 2011 Act including the ability to issue Provisional Improvement Notices to address WHS issues on site.

If you request a HSR for site, please notify the WHS Coordinator so volunteers can be sought.

# WHS Dispute Resolution

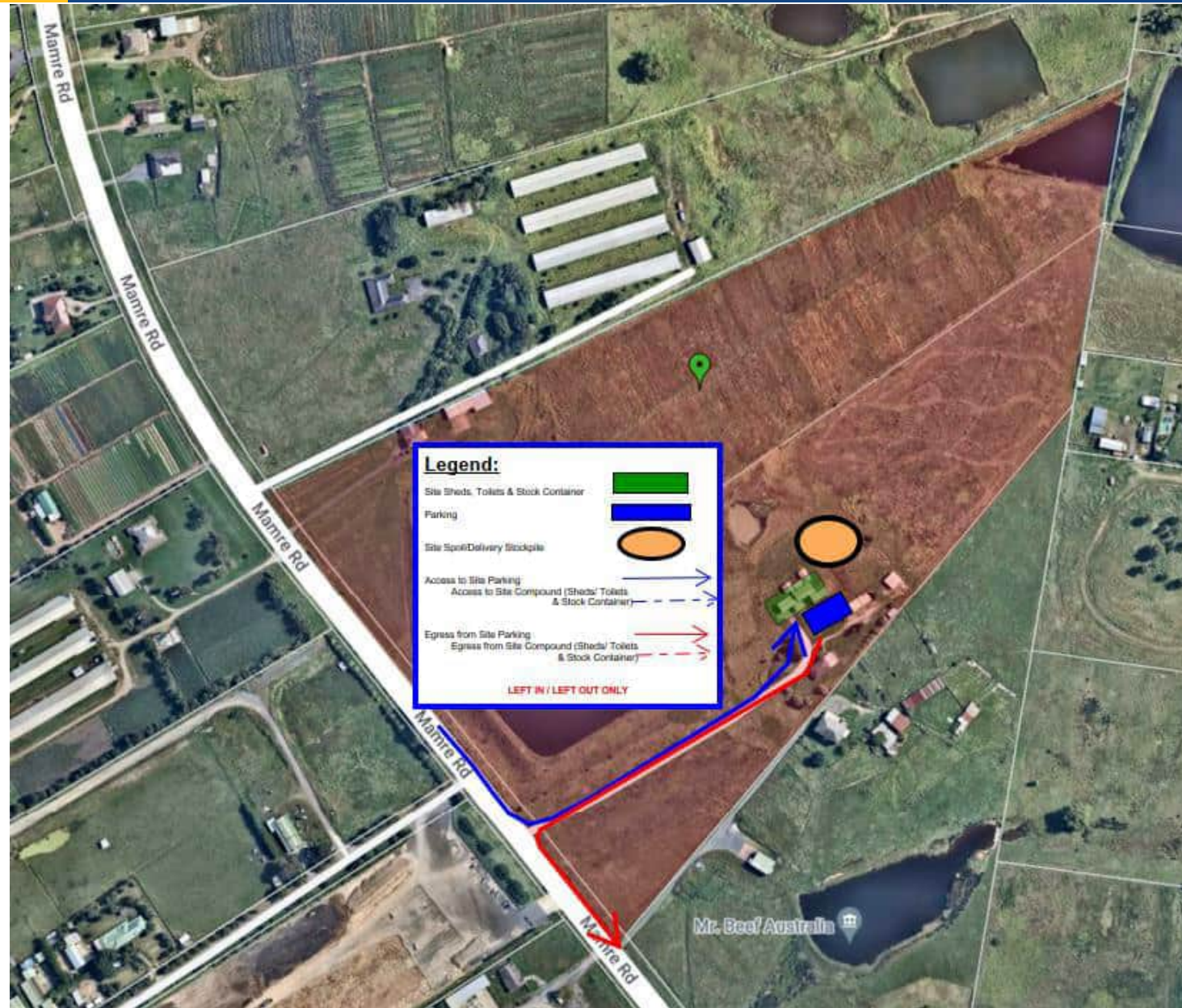




- Construction hours: 7:00 AM to 6:00 PM Monday to Friday and 8:00 AM to 1:00 PM Saturday.
- Break times: 10:00 AM to 10:15 AM smoko and 1:00 PM to 1:30 PM lunch.
- No works on Sunday or Public Holidays.
- You must have approval for works outside standard hours.
- No finishing up (i.e., concrete pour) after 6 pm – plan your work in advance.
- No ‘warming up’ of plant and machinery before 7 AM.
- The Daily Pre-Start book is located outside crib rooms – sign in and out of it every day.
- Fire extinguishers are located at the front of the Burton site office, at the front of the lunchroom, inside the Burton site container and on conditionally registered plant.
- First aid kits are located inside the Burton site office and most Burton utilities.
- Spill kits are located inside the Burton hazardous substance container, Burton Site Container and in some Burton utilities.
- No children under 16 or pets are allowed on site.
- **Out of Hours Work without approval = Breach of Environmental Protection Licence = EPA fine**

# Vehicle Access Plan

# Vehicle Movement Plan & Layout





# Site Compound Layout

# Emergency Response



In case of **INCIDENT** if you are the first responder:

- Determine the extent of the incident,
- Contact the Site Supervisor ASAP, and
- Call 000 and request the relevant emergency service (if required),
- Attempt to contain the incident **(if safe to do so)**,
- Proceed to the nearest emergency assembly area **(if evacuation called)**.



In case of **INJURY** if you are the first responder:

- Determine the extent of the injury,
- Contact the Site Supervisor ASAP,
- Call 000 and request the relevant emergency service (if required),
- Transport the victim to the Ambulance Pick-up Point (Burton Office), and
- Suspected spinal injury / serious injury – do not move the victim unless further injury is likely from remaining in place.



In case of **FIRE** if you are the first responder:

- Attempt to extinguish the fire with fire-fighting equipment **(if safe to do so)**,
- Contact the Site Supervisor ASAP, and
- Call 000 and request the relevant emergency service (if required),
- Proceed to the nearest emergency assembly area **(if evacuation called)**.

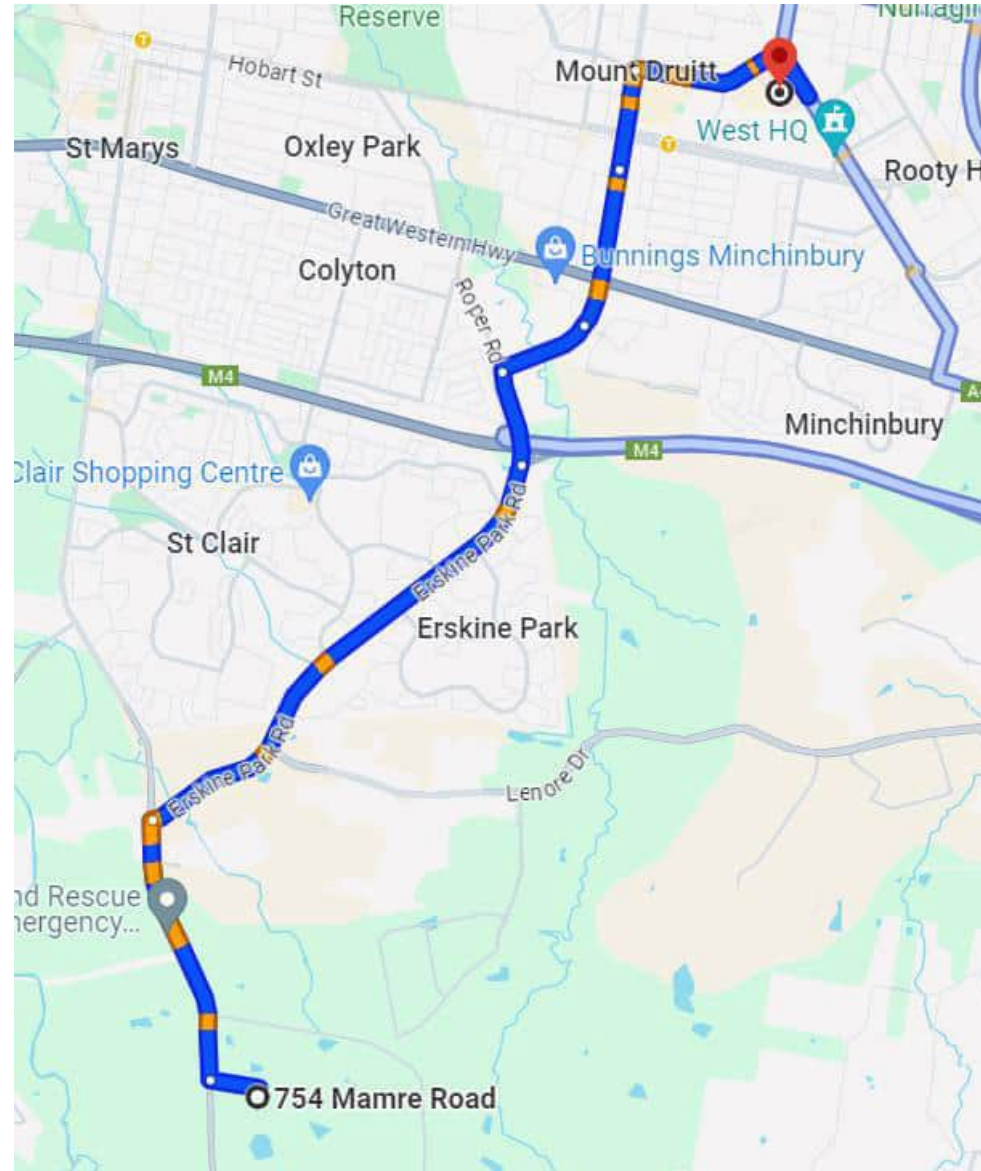
**EVACUATION NOTIFICATION WILL BE MADE ON UHF CHANNEL XXX**

- All UHF radios on site must to be tuned to **CHANNEL XX**
- Emergency evacuations will be announced over **CHANNEL XX**
- If UHF radios prove ineffective, evacuations will be announced by mobile phone or by word-of-mouth;
- In the event of an actual emergency please ensure you evacuate to an assembly point so you can be accounted for; and
- Emergency evacuation drills are held approximately every three months.



# Emergency Assembly Points

# Medical Emergency Location



## **Closest Hospital**

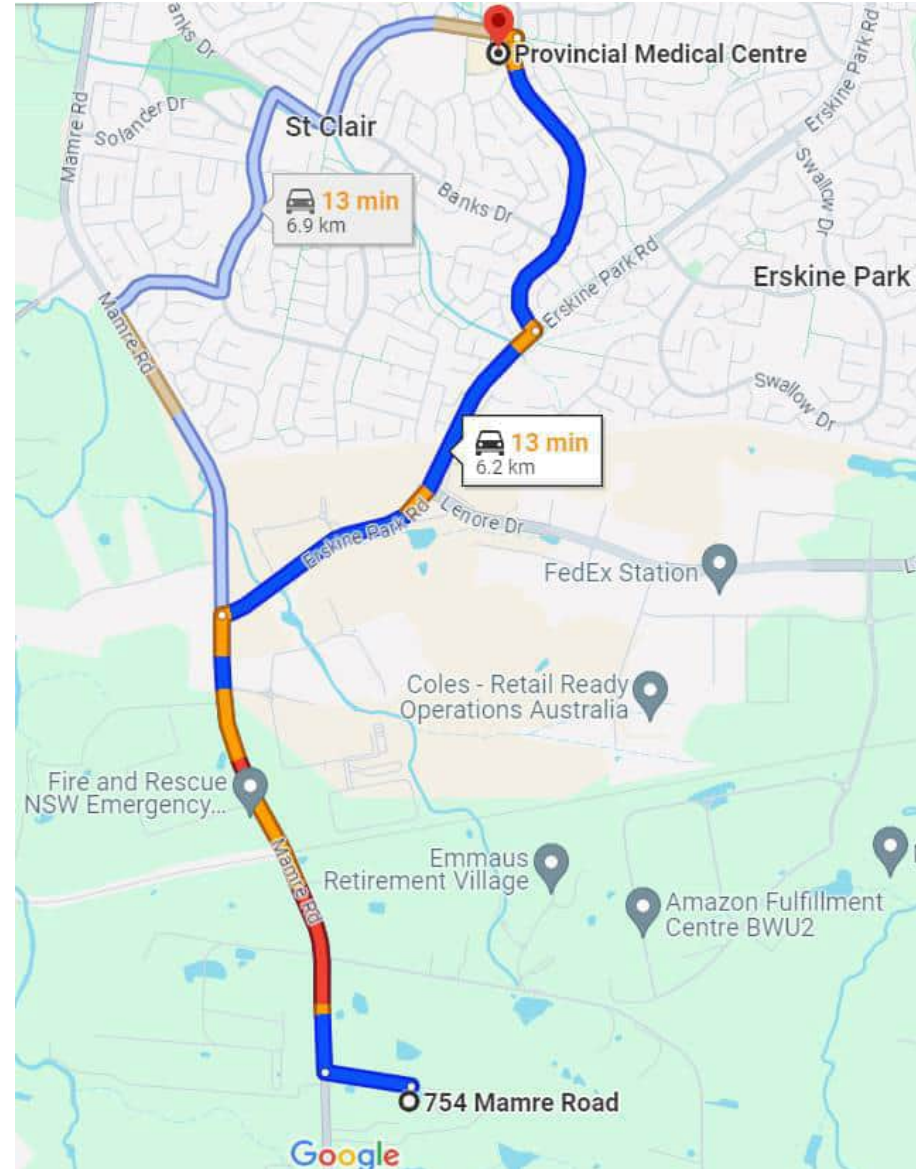
**Mount Druitt Hospital,**

75 Railway Street,  
Mount Druitt NSW 2770

(12km from the site)

**PH: (02) 9881 1555**

# Medical Centre



## Closest Medical Centre

### Provincial Medical Centre,

155 St Clair Shopping  
Centre, Shop 21, Cnr,  
Bennett Rd, St Clair NSW  
2759

(6.2km from the site)

**PH: (02) 9834 3499**



# Incident Reporting

- All safety and environmental incidents, near misses and hazards **must** be reported to the Burton Project Team as soon as possible,
- You have a duty under the WHS Act 2011 to speak up if you witness unsafe work / behaviour,
- You can ask someone to stop work or behaviour that you deem to be unsafe – this simple action could prevent an incident from occurring, and
- Don't be afraid to make a report – it will be treated in the strictest confidence and will help make this site as safe and environmentally friendly as possible.



**ANY OF THE FOLLOWING WORK REQUIRES A PERMIT – NO PERMIT NO WORK!**

- Permit to Excavate (14 days) – Required for all excavation, ground penetration. Must be returned on completion.
- High Risk Trench Permit (7 days only) - For high-risk excavation work – shoring, 2 or more bench steps, high risk services. Must be returned on completion.
- Dewatering Permit – Pumping or dewatering activities.
- Hot Work Permit (7 days) – Required for all grinding and welding work.
- Confined Space Entry Permit (7 days). Required for all work performed in a confined space.

**All permits are issued by the Burton Engineer.**

- All work activities must be detailed in a Safe Work Method Statements (SWMS),
- Workers should be involved with the creation of a SWMS, fully understand the content and ensure they sign on.
- Subcontractors are responsible for inducting their workers into SWMS.
- Task observations are performed by Burtons to monitor compliance with SWMS, and
- Burton SWMS – All workers signing on to a Burton's SWMS are encouraged to offer suggestions for improvement to SWMS.

**Ensure you have read, understood and signed onto a SWMS before you commence work on site.**



- No alcohol or illegal drugs are to be consumed or brought to site.
- Random drug and alcohol testing will be conducted i.a.w. AS3547:1997 (Alcohol) and AS/NZS 4308:2008 (Urine) by an independent contractor and is a mandatory Burton requirement.
- Please ensure to declare any medication taken in the two weeks prior to test
- Alcohol limit BAC 0.00%
- Drug and alcohol testing will be conducted if you are involved in an incident involving plant and machinery.
- No smoking is allowed in any site facilities at any time, and
- Cigarette butts must be fully extinguished and be disposed of in bins provided.

# Personal Protective Equipment

- Day Work PPE: Long sleeve high visibility shirt or long sleeve shirt with high visibility vest, hard hat, long pants and safety footwear **MUST BE WORN AT ALL TIMES.**
- Night Work PPE: White overalls with reflective material OR long sleeve hi visibility shirt and hi visibility trousers **MUST BE WORN AT ALL TIMES.**
- Additional PPE such as hearing and eye protection, coveralls, gloves, respirator to be worn as required by SWMS.
- Hard hats, safety glasses, gloves, respirators and hearing protection are available from the PPE cupboard.



# Take 5 Risk Assessment

- Take 5 risk assessments (a.k.a. Job Safety Analysis (JSAs), Take 2s etc.) are to be completed daily for all activities.
- Activity supervisors are required to complete the Take 5.
- All workers must read the Take 5, understand it and sign on.
- Take 5s must be updated or a new one completed whenever the nature of the activity changes e.g., work has shifted to a location directly under power lines
- Submit completed Take 5s to the WHS Coordinator weekly, and
- If you do not have a Take 5 system in place, Take 5 books are available from the Burton Office. The WHS Coordinator can instruct you on their use.



# Plant Inspection & Approval

- All plant to be operated on site must be checked by the Site Supervisor or WHS Coordinator before operating on site.
- Supplier Plant Inspection Checklist must be completed, Plant Risk Assessment and Service History must be provided for all items of plant. No paperwork? No start.
- After an inspection has been performed on the item of plant, an approval label will be issued based on the results.
- The three types of approval labels are:
  - **Green** – Approved for use for 6 months,
  - **Yellow** – Approved for use for 3 days due to minor defects or short-term hire, and
  - **Red** – Not approved for use until defects are rectified.



**BURTON**  
Civil Engineering Contractors

**APPROVED**

Burton ID No.: \_\_\_\_\_ Inspection Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Inspected By: \_\_\_\_\_



**BURTON**  
Civil Engineering Contractors

**CONDITIONAL  
APPROVAL**

Burton ID No.: \_\_\_\_\_ Inspection Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Inspected By: \_\_\_\_\_

Re-inspection Date: \_\_\_\_\_



**BURTON**  
Civil Engineering Contractors

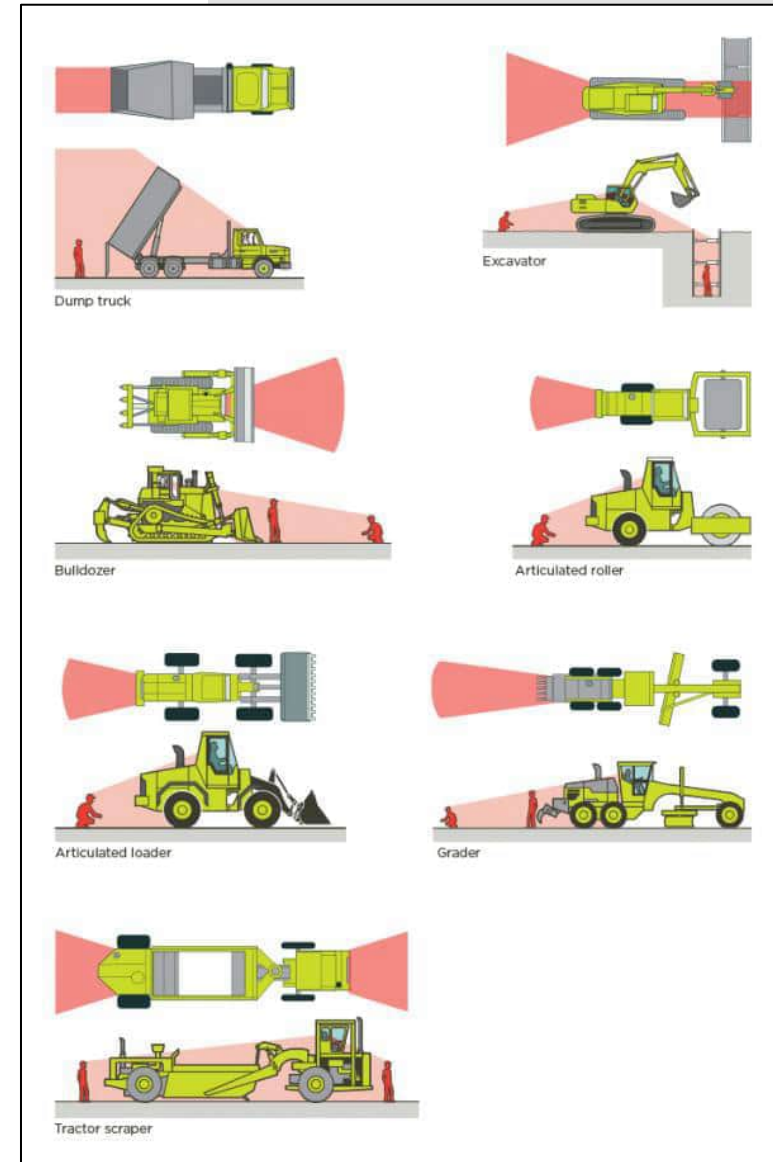
**DO NOT OPERATE**

Burton ID No.: \_\_\_\_\_ Inspection Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Inspected By: \_\_\_\_\_

# Plant and Equipment Safety

- Plant and heavy vehicles operating on site are required to have a working flashing light, seat belt, UHF radio and reverse alarm
- Light vehicles operating on site are required to have a working flashing light
- All traffic signage must be obeyed
- Mobile phones must not be used when operating plant or equipment – park up plant / stop using equipment if you need to take a call,
- Plant operators and truck drivers must remain in their cabins at all times
- Remain aware of the location of workers on foot while operating or driving.



- Daily Plant Inspections (DPI) must be completed every day prior to operating plant.
- Passengers are not to ride on mobile plant unless manufacturer installed seating is available.
- Do not overload trailers.
- Workers with RED PROVISIONAL LICENSES and INTERNATIONAL LICENSES are not authorised to drive Burton Contractors company vehicles on the construction site.
- Symptoms of fatigue must be immediately reported to your supervisor.
- Workers suffering from fatigue will be provided with a space to rest on site – they are not fit to drive themselves home.



## SAFE DRIVER POLICY



This policy applies to all workers who drive a company vehicle owned by Burton Contractors, (Burton).

Burton insists on safety in the workplace and requires the same on public roads and amenities. Breaking of road rules and loss of drivers' license points affects both the safety of workers and other road users and the performance, productivity and reputation of the company.

While driving company vehicles or own vehicles for work purposes, personnel must comply with road legislation, be conscious of road safety and demonstrate safe driving and other good road safety habits.

Behaviours such as those listed below but not limited to will be dealt with under Burton Performance Management Program

- i. driving under the influence of drugs and/or alcohol
- ii. driving while disqualified or not correctly licensed
- iii. failing to stop after an accident
- iv. acquiring demerit points leading to suspension of licence
- v. any actions that warrant the suspension of a licence
- vi. speeding, or aggressive driving
- vii. littering from a moving vehicle or any other behaviour deemed unsocial or dangerous
- viii. Tampering with safety controls and equipment

The company will act on any complaints received from members of the public regarding the behavior of drivers and manner in which company vehicles are driven.

Workers affected by over the counter or prescription medication are not permitted to drive a Burton owned vehicle at any time.

It is mandatory for workers to ensure that driver license is current and must notify the company when they have lost their driver license for any reason. Failure to do so and continuing to drive a company owned vehicle will result in termination of employment.

Burton shall on a random basis assess and verify compliance with this policy by requesting workers to produce an RMS printout of their license status at cost of the business. Immediately following penalty notice issued, nominated drivers are responsible for producing receipt of payment and providing a copy of RMS print out at the cost of the employee.

Drivers of company owned vehicles are reminded of the zero tolerance policy under the Burton Drug and Alcohol Program. Workers driving company owned vehicles outside of work hours on public roads and amenities must comply with established road rules about consumption of drugs and alcohol.

Before an employee is permitted driving their own vehicle for the purposes of work,

- a. the employee must seek the employer's agreement before doing so
- b. the car must be legally registered, warranted and insured for the purposes of work and the
- c. employee must show evidence of this on request
- d. the employee must not carry loads for which the vehicle is unsuited
- e. they are not permitted to carry more passengers than for whom there are seat belts
- f. the vehicle must not be used in conditions for which it was not designed

Burton will take all steps to ensure company vehicles are as safe as possible and will not require workers to drive under conditions that are unsafe and/or likely to create an unsafe environment, physical distress, and fatigue. This policy is aimed to protect the position of the company and its workers.

Chris Burton  
General Manager  
Burton Contractors Pty Ltd  
September 2018



The use of light vehicles are only permitted by workers with authority from an authorised Burton Site Representative. The permitted worker must adhere to the 'Safe Driver Policy'. Access to the policy is located within the Burton site office or lunch shed.

It is the sole responsibility of the permitted driver to communicate to a Burton team member should the route or travel path instructed to take is not be within the limits of the vehicle and road regulations.

*E.g. taking a tipper truck over a light vehicle bridge, in which the vehicle exceeds the bridges' weight tolerance, resulting in a fine.*

*Using roads exceeding limit capacity restrictions.*

A Driver Code of Conduct and induction training for the development to minimise road traffic noise has been developed. This Code of Conduct will be updated and implemented throughout the life of the project. The code of conduct requires that while driving any vehicle for work-related purposes. Drivers are to be issued with a copy of the Drivers Code of Conduct, and must comply with all the following:

- Demonstrate safe driving and road safety activities.
- Abide by traffic, road, and environmental legislations.
- Follow site signage and instructions around site
- Drivers must only enter and exit the site via the approved entry and exit points and travel routes.

The below activities in any vehicles will be considered as a breach of conduct and will result in removal from site:

- 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

All Drivers on site must:

1. Be responsible and accountable for their actions when operating a company vehicle or driving for the purposes of work.
2. Display the highest level of professional conduct when driving a vehicle at all times.
3. 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.
4. Immediately notify their supervisor or manager if their drivers' licence has been suspended, cancelled, or has had limitations applied.
5. Comply with all traffic and road legislation when driving.
6. Assess hazards while driving.
7. Undertake daily pre-start checks of oil, tyre pressures, radiator, and battery levels of company vehicles they regularly used.
8. Drive within the legal speed limits, including driving to the conditions.
9. 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.
10. 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.
11. Do not queue on public roads unless a prior approval has been sought.
12. Be aware that at no time may a tracked plant be permitted or required on a paved road.
13. 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.
14. All drivers to report to their supervisor if they have been prescribed medication prior to the start of work.



15. Wear a safety seat belt at all times when in the vehicle.
16. Avoid distraction when driving – the driver will adjust car stereos/mirrors etc. before setting off or pull over safely to do so.
17. Report ALL near-misses, crashes, and scrapes to their manager,
18. Report infringements to a manager at the earliest opportunity.
19. Report vehicle defects to a manager prior to the next use of the vehicle.
20. Follow speed limits as imposed within the estate.
21. Keep loads covered at all times.
22. Park in dedicated light vehicle or heavy vehicle parking spaces.
23. Follow the approved site access/egress routes only.

# Haul Roads and Parking

- Comply with current Vehicle Movement Plan (VMP) displayed on site
- Travel on designated roads / haul roads at all times, and
- Light vehicles are to give way to all plant and heavy vehicles.
- Heavy vehicles are required to give way to plant.
- Plant parking is available at Burton compound
- Light vehicle parking is available at Burton compound
- Plant may be parked and secured overnight on site. Must be parked off haul roads
- Park in areas that will not cause obstructions to other plant or vehicles while on the construction site.
- If you need to exit the cabin, you must park on a level surface, parallel to any other items of plant in the vicinity and remember to apply all on board braking systems
- Park on level ground where possible
- Use wheel chocks if needed to park safely



# Workers on Foot Safety

- No foot workers should be on haul roads or in tip areas at any time
- Do not walk behind or between operational plant or vehicles
- Do not approach mobile plant until positive contact has been made with the operator via UHF radio or hand signals
- Await a confirmation signal back from the operator before approaching the machine



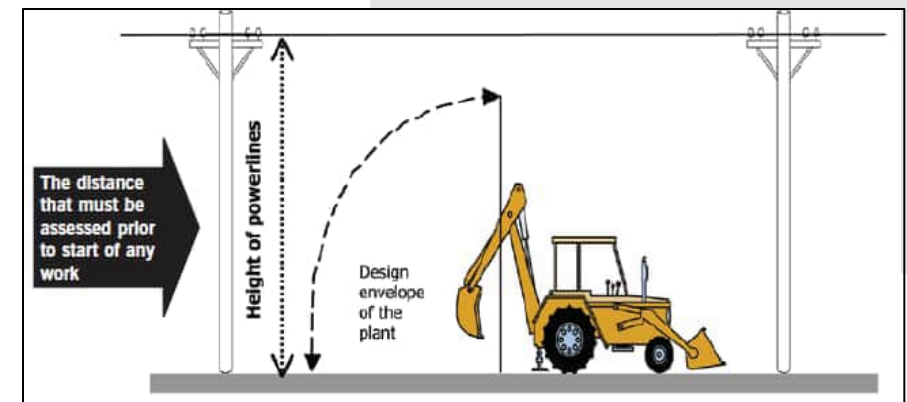
- = Zone 1 – No operator line of sight. Only enter via this zone if you are unable to access via the operator line of sight in zone 3, and only after signaling operator and receiving a positive response.
- X Zone 2 – Keep out of this area at all times.
- ✓ Zone 3 – Operator line of sight. The safety approach zone, but only after signaling operator and receiving a positive response.



# Overhead Services Safety

- Signage and/or height ordinance indicators of overhead power lines will be erected on site
- Height of power lines will be signposted on site
- No work is allowed within the easement without approval
- Excavators working underneath are required to have height limiters
- Work underneath overhead powerlines should be stopped in wet, windy or storm conditions
- Spotters are required for work under overhead lines
- Spotters must remain a safe distance from plant while its tracking in case of an overhead electrical cable strike
- Spotters must not use mobile phones while spotting while spotting – if there is an emergency and you need to use your mobile phone, the plant operator must stop work while this occurs

| Approach Distances for work performed by Ordinary Persons |       |
|-----------------------------------------------------------|-------|
| Up to 132 000 volts (132 kVA)                             | 3.0 m |
| Above 132 000 up to 330 000 volts<br>(132 kVA – 330 kVA)  | 6.0 m |
| Above 330 000 volts (330kVA)                              | 8.0 m |



# Excavation Safety

- All excavation work must have a Permit to Excavate and High-Risk Trench Permit (if required).
- Excavations must be marked with signage such as **Deep Excavation** if nearby workers or activities.
- Trenches should be backfilled at shift end if possible.
- Open trenches should be protected by tape, mesh, ATF or earth mound minimum 1m from edge depending on the risk to others and unauthorised access.
- A spotter must be used during all excavation work around services.
- Spotters must not perform other tasks while spotting.
- Bench or shore excavations deeper than 1.5m.
- A geotechnical engineer must certify all excavations where benching or shoring is not practical.
- All access / egress points into an excavation (such as ladders) must be secured.
- Shoring must be designed by a qualified person, instruction for installation & use provided and evidence that workers are competent to install and use.
- All excavator operators are to have a current Permit to Excavate and service drawing/s inside their cabin for reference.
- Pothole suspected location of underground services prior to commencement of activity.

## Different Types of Cable Strikes



Moling Trenchless



Cutting into service ducts



Excavator



Driving Star Pickets



Hammer



Concrete Saw



### **STOP and THINK!!!**

**Prior to starting your work!! Have YOU thought about the following:**

- Have you completed a services search?
- Will the work be completed close to pedestrians or traffic?
- Is barricading, cones, traffic control available?
- Have you completed the required work permit?
- What is your emergency plan in the event of a strike?
- Is there a risk of falling into the trench? Day or night?
- Do any exposed services need to be protected from falling objects?
- How are workers going access/egress from the trench safely?
- What support are we implementing for potential cave-ins?  
i.e., shoring, battering or benching
- What soil assessments have we completed to know the level of cave-in risk?

**In the event of a cable strike YOU should:**

- STOP work immediately
- Shut down plant and equipment
- Never attempt to stop a gas leak
- Do not attempt to extinguish a gas fire
- If leaking gas then, evacuate area to an area upwind
- Always report suspected strikes to your supervisor





- All electrical leads must be well maintained and off the ground when in use,
- Electrical equipment must be inspected, tested and tagged by a competent person monthly, and
- Appropriate tag must be displayed on each tool in accordance with AS/NZS 3760:2010 Electrical Testing and Tagging.

- All chains and slings must be well maintained.
- Lift loads at designated lift points.
- Lifting equipment must be inspected, tested and tagged by a competent person on a yearly basis for chains and six monthly for fabric slings, and
- Appropriate tag must be displayed on each chain or sling in accordance with AS/NZS 4991:2004 Lifting Devices

# Manual Handling Safety

- Use a mechanical aid to lift and transport materials,
- Use a two person or team lift when a mechanical aid is unavailable,
- If you must perform an individual lift, remember to assess the weight of the load, lift with your knees and don't bend your back,
- Where possible – rotate manual handling tasks with other people you're working with because you will minimise the strain put on your back.





# Survey Marks

- All survey marks to be preserved – if you think works will damage a survey mark, please contact the site supervisor
- Some survey marks look like this:



- Damaging a survey mark may result in a person to pay a penalty up to \$20,000.
- If permanent survey mark destroyed, there are procedures to replace/reinstate (Preservation of Survey Infrastructure [www.lpi.nsw.gov.au](http://www.lpi.nsw.gov.au) )

**Everyone on site** is responsible for the environment.

## **Protection of the Environment Operations Act 1997**

NSW EPA can prosecute individuals – **not just employers** – for breaches of the POEO Act.

\$1 000 000 and / or 7 years imprisonment.

### **General Environmental Duty**

A person must not carry out any activity that causes or is likely to cause, environmental harm unless the person takes all reasonable and practicable measures to prevent or minimise the harm.

### **Duty to Notify**

A person who becomes aware that serious or material environmental harm is caused or threatened.



Environment  
ISO 14001  
SAI GLOBAL

# General Requirements

- Report any environmental controls (e.g.; sediment fences) that need repair or replacing to the Environmental Coordinator or Site Supervisor,
- Environmental controls are to be installed **prior** to conducting any work,
- All installed environmental controls are to be maintained throughout the project
- Concrete washouts must only to occur in the designated concrete washout bays.
- Chemicals not being used are to be stored in the hazardous substance container or in a bunded containment area, not left on site.
- Do not tip off contaminated or dirty water on site, use a washout bay or seek approval to dewater.
- Plant and machinery must be inspected by the operator for oil leaks. All oil leaks from machinery are to be cleaned up as soon as practicable using a spill kit or similar.
- If you are unsure on how to use a spill kit, speak to the Environmental Coordinator



- Erosion is the removal of material e.g.; soil by natural forces such wind or rain, this consequently leads to the generation of sediment.
- **Sediment (dirt)** is classed as a **pollutant** on this project.
  - Sediment has the potential to damage the environment as it can smother and harm the surrounding vegetation or waterways, reducing the health of waterways.
- Accordingly, Erosion and Sediment Controls are employed throughout site.
- These can include maintaining existing groundcover/ vegetation, sediment fences, sediment basins, mulch bunds, surface stabilisers, site entry and exit controls e.g. rumble grids etc.
- Erosion and sediment control plans (ESCPs) are developed for each stage of works. The ESCPs will demonstrate what erosion and sediment controls are required.

## **External Dewatering**

- All water that leaves site will have met the site guidelines set by the EPA to ensure that it meets Turbidity, pH criteria.
- When dewatering ensure the pump is not sitting in sludge at the base of a basin/trench.
- The outlet hose for any such dewatering must be placed in an approved and stabilised or covered area onsite to prevent any scour.

## **Internal Dewatering**

- Internal dewatering refers to when water is transferred onsite. i.e.; dirty water removed from an area of site such as a trench and transferred to a basin.
- When transferring water to a basin ensure that the basin isn't discharging, has not been recently treated/ flocked or that the volume will not cause an overflow or discharge event.

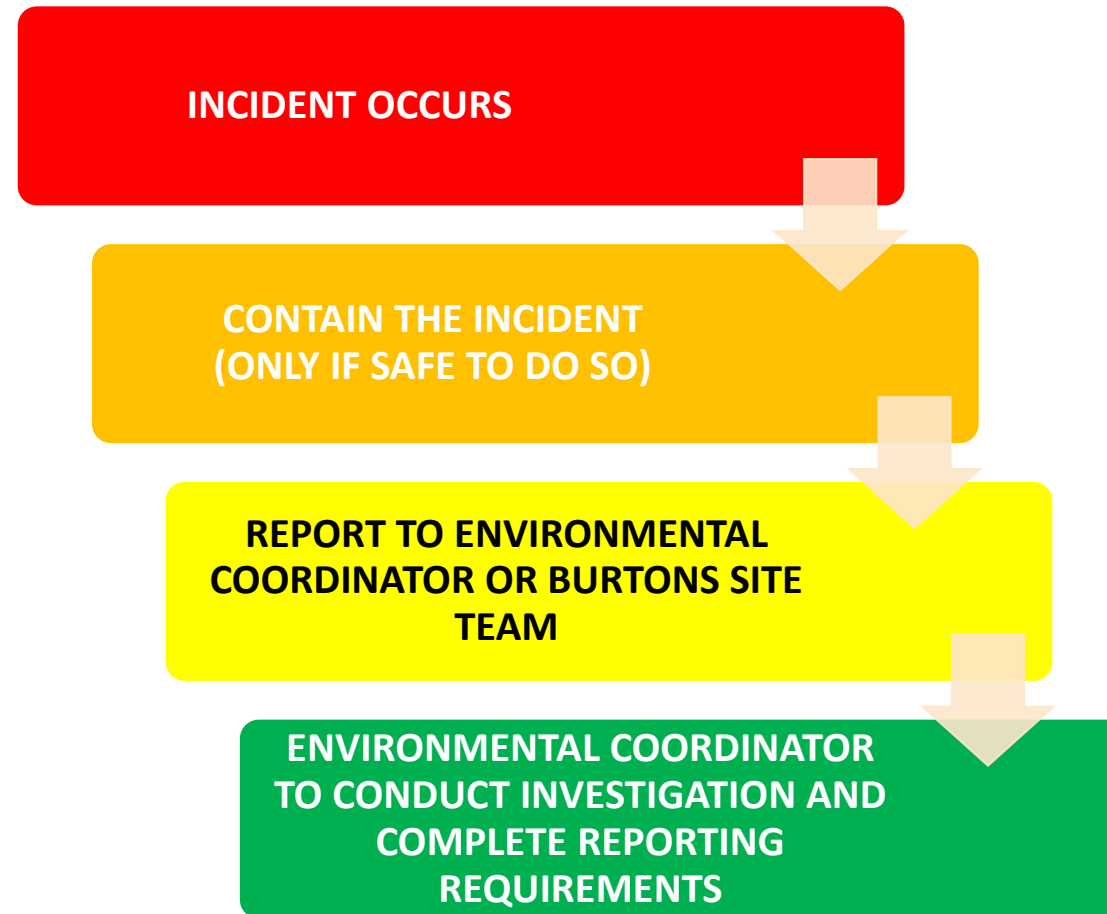
**No water is to be released from site without being tested and approved.**

**Dewatering Permit required for dewatering activities.**

## Spill Response Steps:

1. **Contain** the spill (stop leak, earth bunds, spill socks, etc.).
  2. **Contact** the Environmental Coordinator or Site Supervisor.
  3. **Clean up** (using absorbent material in spill kit).
- **ALL** spills must be reported to the Site Supervisor and/or Environmental Coordinator (even small hydraulic leaks)
  - Spill clean-up material must be disposed of appropriately as contaminated waste.
  - Spill kits should remain fully stocked, please notify your supervisor if you find a spill kit that needs refilling.





- Plant and equipment is to be serviced at the intervals required by the Original Equipment Manufacturer (OEM) to ensure efficient operation,
- Weather and wind conditions are monitored by the Environmental Coordinator,
- Dust will be controlled on site by use of a water cart or other appropriate means, and
- If you are causing visible dust plumes; STOP, reconsider what you are doing.

# Hazardous Substances

- Any person using hazardous substances (including carrying fuel in jerry cans) must have a spill kit that is maintained and fully stocked,
- No smoking within 20m of hazardous substance containers / cupboards,
- Safety Data Sheets (SDS) are to be available for all substances stored on site,
- All SDS must be current and specific to the type of chemical being used, and
- SDS are to be provided to the Environmental Coordinator before any substances are brought onto site for review.





- Unexpected finds include contaminated material, unexploded ordnance, archaeological, heritage or cultural artefacts
- Immediately cease all work in the area and notify the Site Supervisor
- Fence off the area and install 'No Entry' signage
- Burtons will investigate which may include a toolbox talk on the area and specific restrictions.

**No works are to resume in the affected area(s) until permission to proceed has been provided by Burton Contractors.**



**Burton Contractors continuously strives to achieve the following at all stages of the project:**

- Compliance with ISO 9001
- Compliance with the Project Management Plan
- Client satisfaction regarding quality of work
- Control and early identification of construction non-conformances and defects
- Compliance with the Contract Works, and
- The use, systematic review and audit of Inspection Test Plans (ITPs).



Quality  
ISO 9001

All employees and contractors have the right to join (or not join) a union. This is called freedom of association. Workers cannot be pressured by a union or by their employer to decide about joining, not joining or leaving a union.

Workplace rights regarding freedom of association are protected under the **Fair Work Act 2009 (FW Act)**. It is unlawful to take or threaten adverse action against a person for:

- Being (or not being) a member of a union or employer association,
- Not engaging in industrial action, and
- Choosing to be represented by a union.

Refer to <http://www.fwbc.gov.au/freedom-of-association> for more information.





Burton Contractors recognises the provisions contained within the Fair Work Act 2009 and Work Health and Safety Act 2011, governing the rights of parties to enter workplaces.

Under the WHS Act 2011, an office holder or an employee of a union (WHS entry permit holder) can enter a workplace to enquire about a suspected contravention of WHS legislation relating to a relevant worker and to consult in relation to health and safety matters with a relevant worker.

Union officials **MUST PRODUCE EVIDENCE OF THE REASON FOR ENTRY INCLUDING ENTRY PERMITS OR THEY WILL NOT BE PERMITTED ENTRY TO THE SITE.**

**Contact Site Supervisor immediately if a Union official enters site**

The Pocket Guide and the Right of Entry procedure available on request details fully the rights and obligations of workers and entry permit holders.

**Burton Contractors has a zero-tolerance policy regarding:**

- Sexual harassment.
- Discrimination.
- Violence.
- Intimidation.
- Unacceptable or offensive behaviour.
- Bullying.

Breaches of the Anti-Discrimination Act 1977, Fair Work Act 2009 or Burton Contractors policy **may result in termination of employment or contract.**

Workers who witness or are victims of workplace harassment must report it to a member of the Burton Project Team. Your report will be treated as confidential.

If you are approached by a member public who has a question, comment or complaint, direct them to the Burton  
Site Office.

Remember to be courteous and understanding when dealing with members of the public.



# Project Team Contacts



***Project Manager***

*Andrew David*

**PH: 0408 725 409**

**24 hr Emergency Contact**



***Site Supervisor***

*Anthony Gobbo*

**PH: 0437 997 572**

**24 hr Emergency Contact**

**First Aid Officer**



***Engineer***

*Zubair Awan*

**PH: 0438 765 151**

**24 hr Emergency Contact**

**First Aid Officer**



***WHS Coordinator***

*Laura Inglis*

**PH: 0499 722 998**

**First Aid Officer**

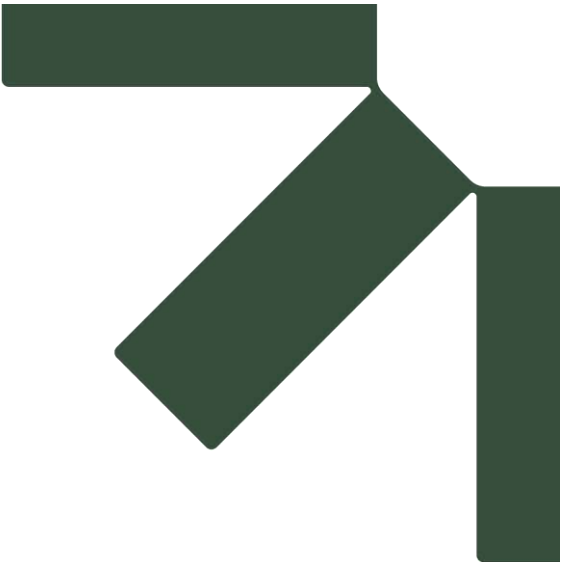
***Engineer***

*Farhan Ahmad*

**PH: 0416 025 335**

**BURTON CONTRACTORS HEAD OFFICE PH: 02 9581 5550**

**ALL INCIDENTS / NEAR MISSES / HAZARDS MUST BE REPORTED TO THE PROJECT TEAM IMMEDIATELY**



## **Appendix N     HSEC Committee and HSR**

### Procedure PR-005 HSEC Committee and HSRs (B)

**Scope:**

This procedure sets out the process for establishing a Health Safety Environment Consultative Committee (HSECC) and/or Health & Safety Representatives (HSR), including its composition, nomination and election, member responsibilities, function, reporting, record keeping and communication processes.

**Responsibility:**

The HSE Department is responsible for the implementation of this procedure.

**Objectives:**

- Facilitate worker consultation through HSECC or HSR is the preferred method;
- Provide clear and concise guidance to HSECC members and HSRs;
- Encourage effective communication and consultation in the workforce.

**References:**

- WHS Act 2011
- WHS Regulation 2017
- Code of Practice: Work Health and Safety Consultation, Coordination and Co-operation

**Associated Templates:**

- TP-007 HSECC Candidate Nomination Form
- TP-008 HSECC Memorandum
- TP-009 HSECC Risk Assessment Form
- TP-010 Burton Risk Matrix and Hierarchy of Control

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### 1. Establishment

A Burton HSECC will be established upon Burton initiating the process at its discretion, or if requested by 5 or more workers. The process for electing HSR/s will be facilitated following request of 1 or more worker.

Projects may also elect to develop their own project based HSECC. The HSE Manager will assist the project in facilitating this request by following the same process outlined below.

### 2. Work Groups

Prior to requesting nominations for HSECC representatives, consultation with workers will take place to determine work groups. The HSE Manager will facilitate this process via Toolbox Talk and through general consensus.

Negotiations for work groups will consider the following:

- Number and composition of workers;
- Nature of work carried out;
- Work locations;
- Work shifts / overtime;
- Frequency of movement between work locations;
- Diversity of workers and their work;
- Nature of hazards and risks of workplaces and work activities;
- Work status e.g. full-time / part-time / casual, contract, hired labour.

### 3. HSECC Composition

Following identification of work groups, consideration will be given to an appropriate number of representatives for the HSECC, which will be made up of workers and management representatives. There will be a majority of worker representation to management representation.



Management representation will be made up of a HSE representative / Manager, and other relevant Department Managers that may interchange and be voluntary depending on the topics for discussion and availability.

A Chairperson and Deputy Chairperson will be nominated to facilitate the HSECC on an ongoing basis. These roles may be nominated and voted upon, and in the absence of nominations or volunteers, may be filled by the Management Representatives to ensure record keeping and administration of the HSECC is maintained.

HSECC members will remain in that position for a period of 2 years and will be eligible for reappointment at the end of the 2 year term via election.

#### 4. HSECC Election Process

The HSE department will circulate a HSECC Memorandum to all relevant workers which will initiate the HSECC nomination process. TP-007 HSECC Candidate Nomination Form is to be completed by workers to either nominate a candidate or self-nominate. Three nominations from each worker are required and they are ranked by preference. If no workers wish to nominate or self-nominate the QSE department will suggest nominations in consultation with the suggested candidate(s). Additionally HSE Department or nominated delegates will notify the workforce via a toolbox talk.

Following collation of nominations, the HSE Department will facilitate anonymous elections of candidates throughout all sites and work groups. They will also tabulate election results and announce the successful HSECC candidates.

#### 5. Role of the Chairperson

The Chairperson is responsible for making sure that each meeting is planned effectively, conducted in a professional manner and that matters are dealt with in an orderly, efficient manner.

The Chairperson must make the most of all the committee members and 'lead the team'. This also involves regularly reviewing the Committee's performance and identifying and managing the process for renewal of the Committee through recruitment of new members.

The Chairperson will also be responsible for facilitating communication between the HSECC and Executive Team and the forwarding of proposals for approval.

#### 6. Role of the Deputy Chairperson

The Deputy Chairperson has the same responsibilities and authority as the Chairperson in the event of the absence of the Chairperson from a meeting.

In addition, the Deputy Chairperson will support the Chairperson in ensuring the smooth functioning of the HSECC, being responsible for:

- Ensuring meetings are effectively organised and minuted,
- Maintaining effective records and administration,
- Upholding the requirements of company policy and State legislation, and
- Communication and correspondence.

#### 7. Role of the Elected Members

Worker representatives will assume the role of the Elected Members. The Elected Members are responsible for:

- Identifying health, safety and environment (HSE) issues via assisting HSE department members with their weekly / monthly inspections if and when reasonably practicable,
- Recording any HSE issues identified by either themselves or workers on their site,
- Attending meetings of the HSECC plus any other meetings deemed necessary via a majority consensus of HSECC members,
- Tabling HSE issues identified on their site for discussion at meetings, and
- Offering constructive input into HSE issues being discussed at meetings.

**8. Unacceptable Behavior**

The following are examples of unacceptable behavior and can be grounds for immediate dismissal from the HSECC:

- Bullying;
- Harassment;
- Sexual harassment;
- Threats of violence;
- Violence;
- Racism; and
- Unethical conduct.

All allegations of unacceptable behavior will be investigated by the Chairperson or Deputy Chairperson in consultation with the HR Department. If any allegation is proven, the person(s) responsible will be immediately dismissed from HSECC and depending on the severity of the behavior may also face termination of their employment and or litigation.

**9. Authority**

The Committee has the power and authority to do all things necessary or convenient in order to exercise its functions under the Work Health and Safety Act 2011.

The HSECC will function for the following purposes:

- Facilitate co-operation between Burton and it's workers in instigating, developing and carrying out measures designed to ensure its workers' health and safety at work;
- Assisting development of standards, rules and procedures relating to health, safety and the environment that are to be followed or complied with at the workplace; and
- Any other function prescribed by the Regulations or agreed between the Executive Team and the Committee.

The Chairperson will take all reasonable steps to ensure appropriate consultation prior to the meetings to facilitate timely agreement on matters but acknowledge it may be necessary for additional consultation with their constituency.

Any costs associated with the decisions of the HSECC must be forwarded by the Chairperson to the Executive Team for final approval.

**10. HSECC Decisions and Disputes**

Wherever possible HSECC decisions shall be made on the basis of consensus. Where no consensus exists a decision will be made by majority vote. For any actions at least 2 management representatives and 3 worker representatives are in to be in attendance.

Where the Committee is unable to reach agreement on any item the matter will be referred to the Executive Team for final decision.

Should the matter remain unresolved the provisions of Division 5, clauses 80-82 of the Act allow the HSECC to request a Safe Work NSW Inspector to attend the workplace to assist in resolving the issue. An inspector may exercise their compliance powers under the WHS 2011 Act to end any dispute.

**11. HSECC Arrangements**

Meetings will be held approximately every 6 weeks (except December / January due to leave periods and staff availability over Christmas). Additional meetings may be held if required. Meetings will be held at location/s to be determined and agreed upon by the HSECC, taking into account project locations, workforce distribution, project activities etc.

Where possible, notification of meetings will be distributed by the Deputy Chairperson no less than one week prior to a meeting being called.

Any member of the Committee may invite an observer/s or expert/s to attend the meeting to assist with clarification

of issues or to offer expert advice. They may only address the Committee if the non-member's attendance was previously agreed to by the Committee.

## **12. Record Keeping**

The Committee may determine standing agenda items. The Deputy Chairperson shall request Committee members to provide any agenda items for discussion at least 1 week prior to the scheduled meeting.

They will also give all workers an opportunity to raise issues for discussion at the meeting prior to the scheduled meeting, where possible and time permits.

All reasonable efforts will be made by the Deputy Chairperson to issue a formal agenda and relevant papers to Committee members at least 3 days prior to the scheduled meeting.

Information relating to risks to health, safety and the environment in the workplace will be made available to the Committee as required. Burton confidentiality and privacy provisions must be adhered to.

Minutes of Committee meetings will record any decisions taken, a summary of items discussed, undertakings or decisions made and any items for action raised at the meeting. Minutes will be provided to all sites for discussion and distribution. All reviewed meeting minutes will be provided to the Executive Team for tabling at the next available Burton's Executive meeting.

Risk assessments and control proposals that will incur a cost are to be submitted by the Chairperson on behalf of the HSECC to the Executive Team for approval on a TP-009 Risk Assessment Form.

## **13. Training for HSECC Members**

HSECC members will receive the following training in addition to the procedure for reference:

- Purpose and Responsibilities of the HSECC;
- Risk Management Process;
- Structure of the HSECC;
- Approval process for HSECC recommendations; and
- Conduct of the HSECC.

## **14. Health and Safety Representatives (HSRs)**

HSRs represent workers on health and safety matters through ongoing consultation and co-operation. A nomination and election process will be set in motion if one worker requests the presence of a HSR on their site.

HSRs have the following powers and functions with or without formal training:

- Represent workers in a work group on work health and safety (WHS) matters,
- Monitor WHS actions taken by the PCBU,
- Investigate WHS complaints from workers of the work group, and
- Look into anything that might be a risk to the WHS of the workers they represent.

Training of HSRs may be determined as necessary by Burton, or following a request by a HSR for formal training. In either case training consists of a five day by an approved RTO, as well as one day refresher annually. Following completion of formal training, HSRs can exercise the following additional functions and powers:

- Direct unsafe work to stop when they have a reasonable concern that carrying out the work would expose a worker of their work group to a serious risk, and
- Issue a 'Provisional Improvement Notice' (PIN) when they reasonably believe there is a contravention of the Work Health and Safety Act 2011 (WHS Act).

If a dispute regarding issuing of a PIN, or a stop work instruction by a HSR arises that cannot be resolved, the assistance of Safe Work NSW Inspectors may be requested.

Refer to Health & Safety Representative Legislative Factsheet Series.



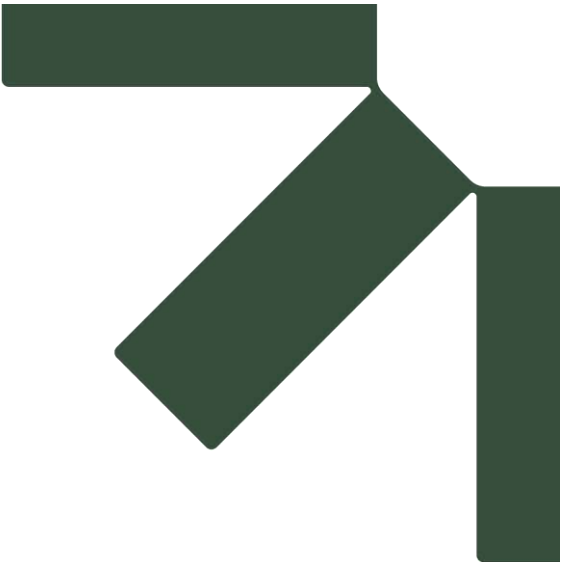
### 15. **Suggestions for Improvement**

Burton Contractors is committed to delivering high-end, leading edge safety, environment and quality outputs.

Suggestions for improvement help us achieve this goal. If you have any suggestions in relation to this procedure or its appendices, please forward them in an email with the subject heading: "Suggestion for Improvement" to the following email address: [qse@burtoncontractors.com.au](mailto:qse@burtoncontractors.com.au)

Your suggestions and personal details will not be redistributed internally or externally.

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# **Appendix O   Incident and Event Reporting and Investigation Management**

**Procedure**  
**PR-014 Incident / Event Reporting and Investigation Management**

**Purpose:**

Incident Reporting and Investigation is the requirement for all events/ incidents to be reported and where triggered to be investigated, with preventative and corrective actions implemented to eliminate or minimize the risk of harm and to prevent future occurrences.

This procedure provides a framework for acting on, reporting, and investigating occurrences that relate to Safety, Environment, Quality, and Conduct, as described on **ENR Form TP-110** and includes the identification and close out of Corrective Actions

**Scope:**

This procedure applies to all events / incidents occurring at **any Burton Project, job site, workspace, work area or place, and** applies to all **employees**, contractors and visitors when involved in controlled activities.

**Definition of Event / Incident:**

An event / incident is any occurrence that has resulted in or has the potential to result in adverse consequences to persons, the environment, property or a combination of these; this also includes any significant deviation from a safe operating procedure and matters of conduct and behaviour.

In the unfortunate event an incident occurs, all workers have a duty under the WHS Act 2011 to ensure the event/incident is reported and in certain circumstances to notify the Regulator and/or external authorities where it is necessary.

Having an effective incident event reporting and investigation process will not only enable Burton to meet its Legislative obligations but provide employees with the tools to gather and analyse information and facts relating to the incident event. This will then enable the investigation to identify the “contributing factors” that lead up to the incident and to identify controls to prevent the incident from reoccurring.

**Objectives:**

- a. Respond with urgency to event alerts raised by the first alert process.
- b. Collect and collate all event relevant data and information immediately following the occurrence of an event
- c. Complete the Event Notification Report in not more than 48 hours after an event has occurred
- d. Act with independence and free from influence when reporting events
- e. Complete Event Investigation Reports within 5 days after an event has been reported
- f. Continually improve the quality of event recording and reporting
- g. Report trend analysis and root cause to reduce / eliminate future incidents
- h. Improve knowledge growth through Safety/Environmental Alerts and scenario mapping processes

**Definitions:**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Incident / Event</b>    | Any occurrence that has resulted in or has the potential to result in adverse consequences to persons, the environment, property or a combination of these                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reportable incident</b> | <ol style="list-style-type: none"> <li>a) the <b>death of a person</b></li> <li>b) a <b>serious injury or illness of a person</b>; means an injury or illness requiring the person to have: <ol style="list-style-type: none"> <li>i. immediate treatment as an in-patient in a hospital; or</li> <li>ii. immediate treatment for: <ol style="list-style-type: none"> <li>i. the amputation of any part of his or her body; or</li> <li>ii. a serious head injury; or</li> <li>iii. a serious eye injury; or</li> <li>iv. a serious burn; or</li> </ol> </li> </ol> </li> </ol> |



|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | <ul style="list-style-type: none"> <li>v. the separation of his or her skin from an underlying tissue (such as degloving or scalping); or</li> <li>vi. a spinal injury; or</li> <li>vii. the loss of a bodily function; or</li> <li>viii. serious lacerations; or</li> <li>ix. medical treatment within 48 hours of exposure to a substance, and includes any other injury or illness prescribed by the regulations but does not include an illness or injury of a prescribed kind.</li> </ul> <p>c) <b>dangerous occurrence:</b> means an incident in relation to a workplace that exposes a worker or any other person to a serious risk to a person's health or safety emanating from an immediate or imminent exposure to:</p> <ul style="list-style-type: none"> <li>i. an uncontrolled escape, spillage or leakage of a substance; or</li> <li>ii. an uncontrolled implosion, explosion or fire; or</li> <li>iii. an uncontrolled escape of gas or steam; or</li> <li>iv. an uncontrolled escape of a pressurised substance; or</li> <li>v. electric shock; or</li> <li>vi. the fall or release from a height of any plant, substance or thing; or</li> <li>vii. the collapse, overturning, failure or malfunction of, or damage to, any plant that is required to be authorised for use in accordance with the regulations; or</li> <li>viii. the collapse or partial collapse of a structure; or</li> <li>ix. the collapse or failure of an excavation or of any shoring supporting an excavation; or</li> <li>x. the inrush of water, mud or gas in workings, in an underground excavation or tunnel; or</li> <li>xi. the interruption of the main system of ventilation in an underground excavation or tunnel; or</li> </ul> <p>any other event prescribed by the regulations but does not include an incident of a prescribed kind</p> |
| <b>Near Miss</b>                      | An occurrence that might have led to an injury or illness, danger to someone's health, and/or damage to property or the environment, but did not result in an actual harm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Injury</b>                         | Harm resulting from a person's employment which requires, first aid treatment, medical treatment or results in fatality. An injury may result from a single event, a single exposure or long-term exposure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>First Aid Injury (FAI)</b>         | A minor work-related injury that only requires first aid treatment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Medical Treatment Injury (MTI)</b> | <p>A work-related injury that requires treatment by a registered medical practitioner, occupational health nurse or paramedic, including being provided prescription medication.</p> <p><b>Note:</b> <i>This does not include diagnostic procedures, observation, counselling or treatment as an outpatient in a hospital. Certain Medical Treatment Injuries are notifiable incidents requiring reporting to the Regulator.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Lost Time Injury (LTI)</b>         | A work-related injury that results in one or more full days / shifts away from work following the day / shift when the incident occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Property Damage</b>                | An incident that has resulted in damage to property or equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Service Strike</b>                 | An incident that has resulted in a service being hit, whether damage has occurred or not.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Environmental Incident</b>         | Any incident that results in causing or threatening material harm to the environment. This includes ground, air and water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Notifiable Incident</b>            | The <i>Work Health and Safety Act 2011 Part 3</i> :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                          | A notifiable incident means: <ul style="list-style-type: none"> <li>the death of a person; or</li> <li>a serious injury or illness of a person; or</li> <li>a dangerous incident.</li> </ul>                                                                                                                                                                                                                         |
| <b>Corrective Action</b>                 | An action taken to mitigate the cause/s of an existing undesirable event in order to prevent reoccurrence.                                                                                                                                                                                                                                                                                                           |
| <b>Root Cause</b>                        | The basic cause(s) which can be reasonably identified which, when controlled, will prevent, or minimise the un-wanted event from reoccurring.                                                                                                                                                                                                                                                                        |
| <b>1<sup>st</sup> Alert Notification</b> | Initial Alert to notify the Executive an event has occurred.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Asset Owner</b>                       | Owner of underground or overhead assets e.g. gas, electrical, communications, sewer, and water                                                                                                                                                                                                                                                                                                                       |
| <b>Material harm to Environment</b>      | Protection of Environment Operations Act 1997, section 147<br>harm to the environment is material if-- <ul style="list-style-type: none"> <li>(i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or</li> <li>(ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000</li> </ul> |
| <b>Conduct Behaviour</b>                 | An occurrence where a person displays and or conducts themselves in a manner prohibited by Anti-discrimination, Sexual Harassment, Bullying and other forms of Legislation with application to the work environment.                                                                                                                                                                                                 |
| <b>Project Team</b>                      | A group of workers, generally comprising of a Project Manager, Engineer and Site Supervisor.                                                                                                                                                                                                                                                                                                                         |
| <b>Delegated Authority</b>               | Delegated Authority is the person on site at the time of the incident in the position of either Engineer, Site Supervisor, Project Manager.                                                                                                                                                                                                                                                                          |
| <b>OFSC</b>                              | Office Federal Safety Commission                                                                                                                                                                                                                                                                                                                                                                                     |

**References:**

- WHS Act 2011
- WHS Regulation 2017
- Protection of Environment Operations Act 1997
- Code of Practice: Work Health and Safety Consultation, Cooperation and Coordination
- Code of Practice: Managing Risks to Health and Safety in the Workplace
- AS/NZS ISO 45001 Occupational Health and Safety Management Systems
- ISO 14001 Environmental Management Systems
- ISO 9001 Quality Management Systems
- Company Management System Manual

**Associated Documents:**

- PR-031 Injury Management
- PR-019 Drug and Alcohol Management
- PR-007 Emergency Management
- PR-002 Employee Assistance Program
- TP-110 Event Notification Report
- TP-111 Event Investigation Report
- TP-066 Incident Statement Incident Register

**RESPONSIBILITIES**
**1.1. Executive & Department Managers**

- Ensuring appropriately qualified and trained personnel are available to complete incident investigations;
- Ensuring all incidents are reported and investigated with corrective actions identified and implemented;

- iii. Conducting external communications as required;
- iv. Ensuring controls identified in the incident investigations are incorporated into the Company Management System;
- v. Ensuring reviews of implemented controls are conducted;
- vi. Assisting with investigations and implementation of improvement initiatives in the business;
- vii. Dedication and making available resources for preventing and reducing occurrence of events;
- viii. Assisting with the design of mitigation strategies for high risk activities.

**1.2. QSE Team Leader**

- i. Oversee that events are reported and investigated within the time limitations detailed in this procedure;
- ii. Review corrective actions adequately reflect event occurrence and address the root cause;
- iii. Report on Event Trend Analysis at Department Managers Meetings;
- iv. Advise Directors of notifiable incidents to SafeWork NSW and Environmental Protection Agency (Part 3 WHS Act 2011 and Clause 699 WHS Regulation 2017 and s148 POEO Act 1997);
- v. Delegate investigations to relevant QSE Team Members;
- vi. Arrange for Event Incident Investigation Training;
- vii. Oversee co-ordination and regular review and audit of this procedure.

**1.3. HR Manager**

- i. Liaising with Workers Compensation insurers and employees;
- ii. Facilitate co-ordination of Employee Assistance Program;
- iii. Facilitating the safe return to work of injured workers;
- iv. Recommend and assist with the development and issue of Citations and Disciplinary Notices;

**1.4. QSE Team**

- i. Communicate to all workers, the requirement to report all incidents;
- ii. Provide information, training and instruction to workers on the process for reporting of incidents;
- iii. Assess risks associated with reported incidents and implement appropriate controls to prevent a re-occurrence;
- iv. Initiate and lead incident investigations using the Event Notification Report and Event Investigation Report;
- v. Comply with the requirements for reporting notifiable incidents to relevant regulatory bodies;
- vi. Communicate incident investigation findings and preventative control measures to all workers;
- vii. Review outstanding actions and investigations to ensure timely completion;
- viii. Record all incidents into the Event Register;
- ix. Notify Executive on becoming aware of an event occurrence;
- x. Assist Project Manager with notification of Client Representative of Event Occurrences;
- xi. Make recommendation for corrective actions;
- xii. Provide updates to changes of legislation relevant to this procedure;
- xiii. Participate in review and audit of this procedure.

**1.5. Construction Manager**

- i. Monitor that Project Teams comply with Event Notification Reporting;
- ii. Review and approve Event Notification and Event Incident Investigation Report;
- iii. Provide QSE Team access and resources during Investigation of Events;
- iv. Champion transparency and information sharing during investigation;
- v. Assist with audit and review of this procedure.

**1.6. Project Manager**

- i. Respond with urgency to Event Notification occurrences;
- ii. Notify Construction Manager and QSE Representative of Event Occurrence;
- iii. Notify Client Representative of Event occurrence;
- iv. Review Event Notification Report;
- v. Participate in Event Investigations;



- vi. Provide support to QSE Representatives during investigations.

### **1.7. Engineers**

- i. Prepare Notification of event occurrence;
- ii. Notifying Client Representative of events as directed by QSE Representative, Construction Manager or Project Manager;
- iii. Prepare Event Notification Report in absence of QSE Representative;
- iv. Participate during Investigation of an Event;
- v. Make available of relevant documentation in preparation of Event Notification Report.

### **1.8. Site Supervisors**

- i. Prepare Notification of event occurrence;
- ii. Participating in and provide information for investigation of an Event;
- iii. Close out Corrective Actions;
- iv. Ensure workers have received instruction on incident reporting requirements;
- v. Ensure the welfare of injured persons;
- vi. Ensure the scene is secured for investigation;
- vii. Assist with Incident Report and Investigation prior to the end of the shift, including witness statements;
- viii. Participating in reviews of implemented corrective actions.

### **1.9. Workers**

- i. Notify Site Supervisor of witnessing or being involved in an Event;
- ii. Comply with Corrective Actions and changes to rules;
- iii. Participate during investigations;
- iv. Immediately reporting all incidents, injuries, damage, system failures to Supervisor;
- v. provide assistance to ensure the area is made safe;
- vi. Provide first aid treatment to injured persons, if safe to do so and first aid trained;
- vii. Provide witness statement;
- viii. Participate in any incident investigations;
- ix. Participate in reviews of corrective actions.

## **PROCEDURE**

### **2 Initial Response following an Event / Incident**

- 2.1 All events / incidents shall be reported immediately to the immediate supervisor, manager, and in the case of contractor personnel, to their nominated representative and Burton site supervisor.
- 2.2 If requested to, phone ambulance fire, police by calling 000.
- 2.3 Critical Incidents shall be managed in accordance with Section 18.
- 2.4 Take immediate action to eliminate or minimise risks associated with the incident and ensure the area is made safe, if safe to do so.
- 2.5 Provide or assist with First aid to injured persons, if safe to do so.
- 2.6 Evacuate to the nearest Emergency Assembly Point if required or advised to. Refer to PR-007 Emergency Management for further information.
- 2.7 All incidents involving an injury that require medical attention or are deemed notifiable events, shall immediately be reported to the Executive Team, by text message, email or phone call.
- 2.8 The incident scene must be protected to ensure evidence required for investigation purposes is not compromised and to allow review by QSE Team and Management and/or the relevant Regulator as required. This may include barricading or taping off of an area.

- 2.9 Site Supervisor or delegated authorised person will assess the situation to ensure workers and others within the surrounding area are isolated from potential danger.
- 2.10 All incidents involving mobile equipment and/or plant will require the involved persons to undergo Fitness For Work Drug and Alcohol testing as defined in the Drug and Alcohol Procedure PR-019.

### **3 1st Alert Notification Safety / Enviro**

- 3.1 The QSE Representative and or person with delegated authority is responsible for making the 1st Alert Notification in Monday.com as soon as practicable, within the first hour of the incident occurring.
- 3.2 Once an entry has been made into the Safety 1st Alert or Enviro 1st Alert in Monday.com a notification is sent via email and an alert notification is made on mobile devices, to advise nominated receivers an event has occurred.
- 3.3 Project Managers (PM) are responsible for reviewing the details of the Safety 1st Alert or Enviro 1st Alert in Monday.com. Once satisfied the details are accurately recorded, they must change the PM Status section to PM-Satisfied. In the instance there is no Project Manager, the status is to be changed to PM Not Involved by the Construction Manager.
- 3.4 The Construction Manager (CM) must review the Alert after the PM and update the Status to CM Reviewed.
- 3.5 If the PM is not satisfied with the details, an Alert status change is made to “Unanswered Questions”, “Reviewing or Checking Info”. If the CM is not satisfied with the Alert, an Alert Status change is made to “Needs More Work” and will notify the PM, who will advise the person completing the alert to make relevant changes.

### **4 Event Notification Report (ENR)**

- 4.1 The QSE Representative or relevant member of the Project Team is required to gather initial information regarding the event, which is documented using *TP-110 Event Notification Form*.
- 4.2 The Event Notification Form shall be completed by the QSE Representative and in their absence the assigned project representative.
- 4.3 The Event Notification Form must be completed within 48 hours of the incident occurring and provided to the QSE Team Leader and Construction Manager for review and approval.

### **5 Data Collection**

- 5.1 In completing the Event Notification Form, the QSE Representative shall collect statements from those involved in the incident and any witnesses. Section 6 of the Event Notification Form is completed to signify the material collected, such as, records (training, maintenance, minutes etc.), procedures, risk assessments, and other data.
- 5.2 Written statements of those involved must be collected as soon as possible following an incident. After reviewing the statements, further questions may be developed, and the QSE Representative may conduct interviews with relevant persons and will record all information relevant to the incident.
- 5.3 In preparation of the Event Notification Form the guided items in section 4 of the Event Notification Form are used to prepare and detail event, how it occurred, who was involved and the environment under which the work was performed.

5.4 The following actions must occur immediately after an event occurs:

- Photographs of scene including all equipment;
- Measurements of relevant equipment, markings, tracks etc.
- Quarantine equipment for purposes of review and inspection.

## **6 Notifiable Incidents**

- 6.1 Notifications to SafeWork NSW, EPA, OFSC or any other external agencies are to be made by the QSE Representative or Construction Manager after consulting with relevant member of the Executive Team. Section 7 of the Event Notification Form TP-110 provides for external notifications to various Authorities after an Event has occurred.
- 6.2 Notifiable Incidents are prescribed by Work Health and Safety Act 2011, Notifiable Pollution Incidents are prescribed by the POEO Act 1997.
- 6.3 SafeWork NSW must be notified as soon as practicable after having become aware of the notifiable incident via the fastest means possible. Notifiable incident as referenced in the Work Health and Act 2011 means
- the death of a person; or
  - a serious injury or illness of a person; or
  - a dangerous incident.
- 6.4 In the event a service is struck such as gas or electrical the relevant Asset Owner must be notified, and the following details must be provided:
- i. Time of event
  - ii. Location
  - iii. What happened
  - iv. The extent of the damage
  - v. Contact person and phone number for the site
- 6.5 Notifications to emergency services (Police, Fire, Ambulance) should be made by any person who deems it necessary after witnessing or assessing the scene. The date and time of the notification is to be recorded in Section 7 of the Event Notification Form TP-110.
- 6.6 Any conversations with SafeWork NSW, EPA, regarding notifiable events must be done in the presence of a Burton representative who will act as witness to that conversation. Details of the conversation must be documented and provided to the QSE Team Leader and HR Manager.

## **7 Client Notification**

- 7.1 The Project Manager is responsible for notifying the Client of the event as soon as possible after becoming aware and in accordance with the specific contract requirements for the project.
- 7.2 When required by the client, a copy of the Event Notification Report TP-110 may be provided. A copy of the Event Notification Report TP-110 will only be provided to the client once the Construction Manager has reviewed the Report and has approved the report for its release to the client.

## **8 External Notifications**

- 8.1 Where incidents are required by law to be reported to regulatory bodies such as safework NSW or EPA, OFSC & SAI Global, the certification bodies must also be notified



- 8.2 QSE Team Leader is responsible for notifying the relevant external bodies such OFSC, SAI Global of the event as soon as practicable after becoming aware and in accordance with the specific reporting requirements under the relevant guidelines and/or standards.
- 8.3 The requirements for reporting to the OFSC is to be via the FSC Online Portal and includes
  - 8.3.1 All fatalities on both Scheme and non-Scheme projects, irrespective of the project value (notify immediately to 1800 652 500 and provide report within 48 hours);
  - 8.3.2 Any incident resulting in a LTI on a Scheme or non-Scheme project (the OFSC also encourages the reporting of AWIs [Alternate Work Injuries]) where the project value is \$4 million or more (provide report within 48 hours if a Notifiable Incident, otherwise provide report within 3 weeks);
  - 8.3.3 Any MTI or dangerous occurrence on a Scheme project (provide report within 48 hours if a Notifiable Incident, otherwise provide report within 3 weeks. Non notifiable dangerous occurrences do not need to be reported to the OFSC).
- 8.4 When requested by an external certification body, a copy of the Event Notification Report Form TP-110 will be provided. A copy of the Event Notification Report Form TP-110 will only be provided to the relevant party once the Construction Manager has reviewed the Report and has approved it for release to the relevant body.

## **9 Event Investigation & Reporting (EIR)**

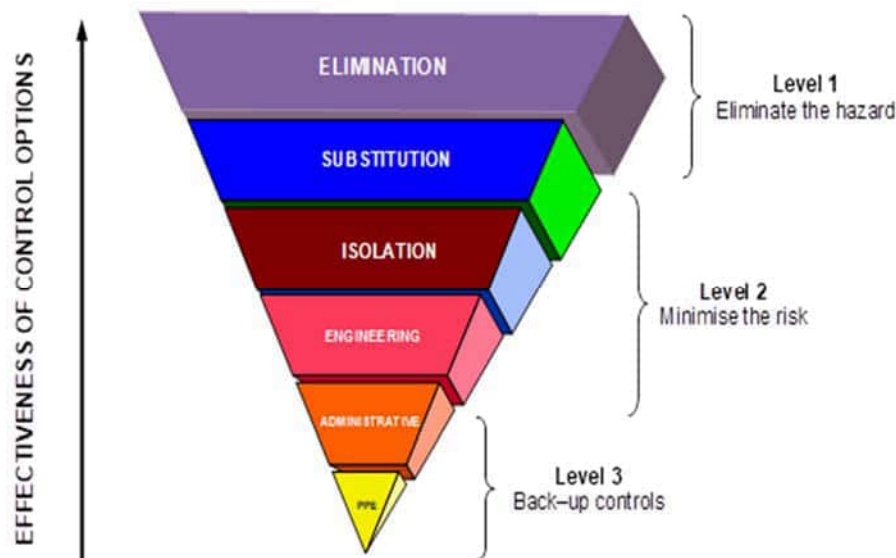
- 9.1 The objective of an investigation is to determine the root cause and all contributing factors and take action to identify controls to prevent a reoccurrence. Investigation involves the processes of induction and deduction; the former to assemble all the available evidence provided via Event Notification Report Form, and the latter to suggest the solution to problems and the answers to questions arising.
- 9.2 The QSE Team Leader shall allocate an investigation to a QSE team member where the Event Notification Report triggers that an investigation may be necessary.
- 9.3 Investigations surrounding notifiable events may be conducted internally or externally, depending on the severity of the occurrence and where necessary under legal privilege.
- 9.4 Investigations shall be carried out by competent person as defined in section 13.1 Training.
- 9.5 Investigations will focus on reviewing the information provided and gathered in the Event Notification Report Form. This will generally include project and/or system records, witness statements, photographs, etc. During the investigation discussions and additional statements may be taken with involved persons.
- 9.6 The EIR is used to conduct the investigation, where the ENR, will form Part A of the Investigation. Event Investigation Reports shall be completed within 5 days after initial submission of TP-110 Event Notification Form, using TP-111 Event Investigation Report and submitted to the QSE Team Leader for review and approval.
- 9.7 The report shall provide details relating to supervision and instruction, planning and preparation, documentation and process, equipment, conditions, individual actions, or omissions, etc. The findings of the investigation will identify the sequence of events and circumstances, and deficiencies or non-conformities that ultimately caused the event and assess the potential for similar events occurring.

- 9.8 The investigator must remain impartial and objective if all of the causes are to be established and must look beyond causes such as human error or lack of care, to identify the underlying hazards in the workplace, and focus on:
- People and the environment
  - plant (including equipment and materials used);
  - processes (systems of work and management practices).
- 9.9 The investigation is to look beyond the immediate causes to the underlying or lost cause of an event. The investigation should consider the impact of multiple causes rather than a single cause and building the chain of events. For the investigation to be successful in identifying all of the causes, it is necessary to establish the following.
- 9.9.1 Events leading up to the incident**
- i. system of work being carried on and the adequacy or suitability of that system for the job in hand
  - ii. instructions and training given for the work and the adequacy of such instructions and training
  - iii. verification of competency of the workers assigned to undertake the task
  - iv. variation from instructions or standard work practices and the reasons for such variation
  - v. workplace conditions (e.g. lighting, floor surfaces, stair treads and handrails, warning signs, temperature, weather if the incident occurred outside)
  - vi. exact location of the incident (with sufficient detail for the spot to be readily identified by somebody else reading the report)
  - vii. materials in use or being handled
  - viii. type of transport or equipment in use
  - ix. need for supervision of the work and whether adequate supervision was provided if needed.
- 9.9.2 Facts of the incident itself**
- i. state of the system of work and the actions that occurred at the time
  - ii. persons directly involved, and those indirectly involved, if any
  - iii. tools, equipment, materials and fixtures directly concerned at the time.
- 9.9.3 Relevant facts regarding what occurred immediately after the incident**
- i. injuries or damage that resulted
  - ii. events leading to the injury or damage
  - iii. persons involved, including those rendering aid
  - iv. any problems in dealing with the injuries or damage (e.g. no method for releasing a trapped person, faulty extinguisher, isolation switch difficult to locate)
  - v. People who have knowledge of the work in hand or conditions at the scene, whether or not they were at the actual event or saw it occur, can also contribute to establishing the chain of events.
- 9.10 The findings will also determine the event category as the actual and potential impact of the event, the purpose to understand the consequence of the event, in order to effect change. The Risk Matrix in TP-111 Event Investigation Report is the tool used to allocate the event category (actual and potential) and are categorised as Critical, High, Medium, and Low.
- 9.11 The QSE Team Leader shall review, finalise and approve the release of the Event Investigation Report within 7-10 days post event, and provide to the QSE Representative and Project Manager, who will in turn provide to the Client (following request and prior authorisation).

## **10 Corrective Action**

**INCIDENT / EVENT REPORTING AND INVESTIGATION MANAGEMENT PROCEDURE (G)**

- 10.1 Corrective actions (CA) eliminate the root cause with the view of preventing future issues. CAs may be detailed in both the TP-110 Event Notification and TP-111 Event Investigation Report to correct deficiencies identified. Actions can be immediate to prevent further harm, short term, or long term. Actions identified will have the Hierarchy of Controls applied, as in the diagram below:



- 10.2 QSE Representative shall wherever practical, consult with relevant workers and involved persons to make recommend CAs arising from the event.
- 10.3 CAs shall be assigned to specific individuals and/or Departments with reasonable time to close the actions out. CAs are recorded on the TP-110 Event Notification Form and on the TP-111 Event Investigation Report.
- 10.4 The CM and QSE Team Leader are responsible for assessing and approving the validity of the recommended CAs for review and approval.

**11 Workers Compensation and Rehabilitation**

- 11.1 Should an employee suffer an injury or illness in the workplace which arises out of, or in the course of performing Burton activities; they may be entitled to Workers Compensation. Burton will take all reasonable steps to achieve the timely physical and psychological rehabilitation of injured employees. Refer to the Injury Management Procedure PR-031.

**12 Performance Management**

- 12.1 12.1 Citation Notices may be issued to individuals where and if the findings of the investigation show continued neglect, and dereliction of compliance for processes and systems of work in accordance with Performance Management Program.

**13 Event and Corrective Action Close-out**

- 13.1 CAs should be actioned and closed out in a timely manner to prevent events from recurring. The QSE Department is responsible for verifying actions are completed and assess the effectiveness of actions, prior to closing out the CAs and ultimately the Event. The QSE Team Leader will verify CAs and close out Events of a Category 1 type.



- 13.2 In instances where CAs are not closed out by the proposed date, the QSE Representative will follow up with the Project Manager when it becomes outstanding for more than 2 days. Where necessary an extension may be provided and or other assistance to complete outstanding items.
- 13.3 The QSE System Coordinator will track and monitor the progress of CA close out in Monday.com and will report to the QSE Team Leader all open CAs and extent of time elapsed since the proposed due date for close out.
- 13.4 The QSE Department is responsible for updating and maintenance of the Event Register in Monday.com ensuring that the approved version of TP-110 Event Notification Form and TP-111 Event Investigation Report is uploaded including evidence for close out of the corrective actions, as well the upload of documentation into appropriate folders within the Company Management System/Incident folders and relevant project folders.

## **14 Training**

- 14.1 Training in the correct application of the ENR and conducting Investigations will involve interactive learning events that tie directly to job duties and will include hands-on practice, with on-the-job learning sessions, forum simulations, Tutorials, case studies, attending RTO training or a mix of all five.
- 14.2 Training may be provided by an RTO, QSE Team Leader, External Providers, HR, and in some instances, specific to procedure implementation by the QSE Systems Coordinator or QSE Representatives.
- 14.3 With respect to each form the level of training is nominated below:
  - 14.3.1 Incident Notification 1st Alert - any Burton employee can complete the alert with no training required
  - 14.3.2 Event Notification Form - Any personnel who has been inducted into this procedure which provides the tools and procedures to record and report on incidents can undertake Event Notification Form. As the QSE team is nominated to undertake this role they also have general training by their qualifications in incident management.
  - 14.3.3 Incident Investigations - QSE Team Members conducting investigations will have participated in any combination of the type of training detailed in 13.1 to be deemed competent and will demonstrate capability in conducting investigation and/or may have completed a nationally recognised unit of competency in incident investigation, and will demonstrate sound experience in conducting investigations in a similar field.

## **15 Employee Welfare**

- 15.1 The effects of a traumatic event can significantly impact on the wellbeing of individuals. In circumstances such as these the Employee Assistance Program can be accessed by employees. Refer to PR-002 Employee Assistance Program for further information.
- 15.2 Persons with a grievance arising from an event occurring should immediately contact HR who will provide guidance and instructions on making a formal Grievance per, PR-015 Grievance Management and Dispute Resolution.

## **16 Internal and external Communication**

- 16.1 Communication of event information through methods of Safety or Environmental Alerts assists in the prevention of recurrence or occurrence elsewhere. The type of information communicated may include basic details and cause analysis, action taken and its effectiveness, and changes to process.
- 16.2 The QSE Team Leader shall review and approve information to be communicated and the format of communication. This may be through toolbox talks, safety alerts, memos, alerts, etc.
- 16.3 External communication or release of event information requires review of material / information and approval by the QSE Team Leader and the CM.

## **17 Event Review and Analysis**

- 17.1 The QSE Systems Coordinator will analyse event trends across the business to identify high risk areas for the organisation specific to activities and methodology, subcontractors, projects, personnel, cost, time and program. This will be reported to the QSE Team Leader for discussion with the Executive Team.
- 17.2 Ongoing discussion, suggestions or recommendations, directives and strategies to investigate high risk areas, safety programs or initiatives for the business may result from trend analysis reporting.
- 17.3 Regular QSE Team meetings are held which include a standing agenda item for review of events to ensure all events have been reported, investigated if necessary and corrective actions implemented and their status.
- 17.4 Review of Non-conformances should identify recurring issues for analysing trends across projects and within the system. Recurring non-conformances shall be reported to Department Managers through monthly Department Managers meetings, and/or the Company Management System Review process.

## **18 Critical Events**

- 18.1 Critical events are those defined as any events that would be categorised as Category 1 (in accordance with the Risk Matrix) and results in crisis management response to be initiated. This may include assistance of emergency services / authorities / external providers, require rehabilitation and employee support, and may result in immediate or long term impacts to business continuity. Examples of a critical event may include fatality or serious life-threatening illness or injury, major environmental spill / discharge.
- 18.2 In the instance of a critical event occurring, roles and responsibilities will change due to the seriousness of the event. The responsibilities for the following key management roles in the event of a critical event include:

### **18.2.1 Site Supervisor**

- Evacuating the area, preventing and minimising harm to people where possible;
- Contacting emergency services;
- Preserving the scene;
- Notifying Burton Contractors Executive Team as soon as possible;
- Cooperating with instructions from incident responders and authorities.

### **18.2.2 QSE Team Leader**

- External notifications to authorities (except for emergency services);
- Directing and ensuring preservation of the scene (except for rescue of people or to limit further possible harm to others);

- Assisting wherever possible in investigation (if requested) and implementation of corrective actions;
- Cooperating with instructions from incident responders and authorities.

**18.2.3 General Manager and Managing Director**

- Ensuring co-operation and compliance with authorities;
- Advising the workforce of the event;
- Ensuring investigation is conducted (internally or externally) and corrective actions / lessons learnt are implemented;
- Seeking advice from external providers as required;
- Authorising release of information including media / social media enquiries.

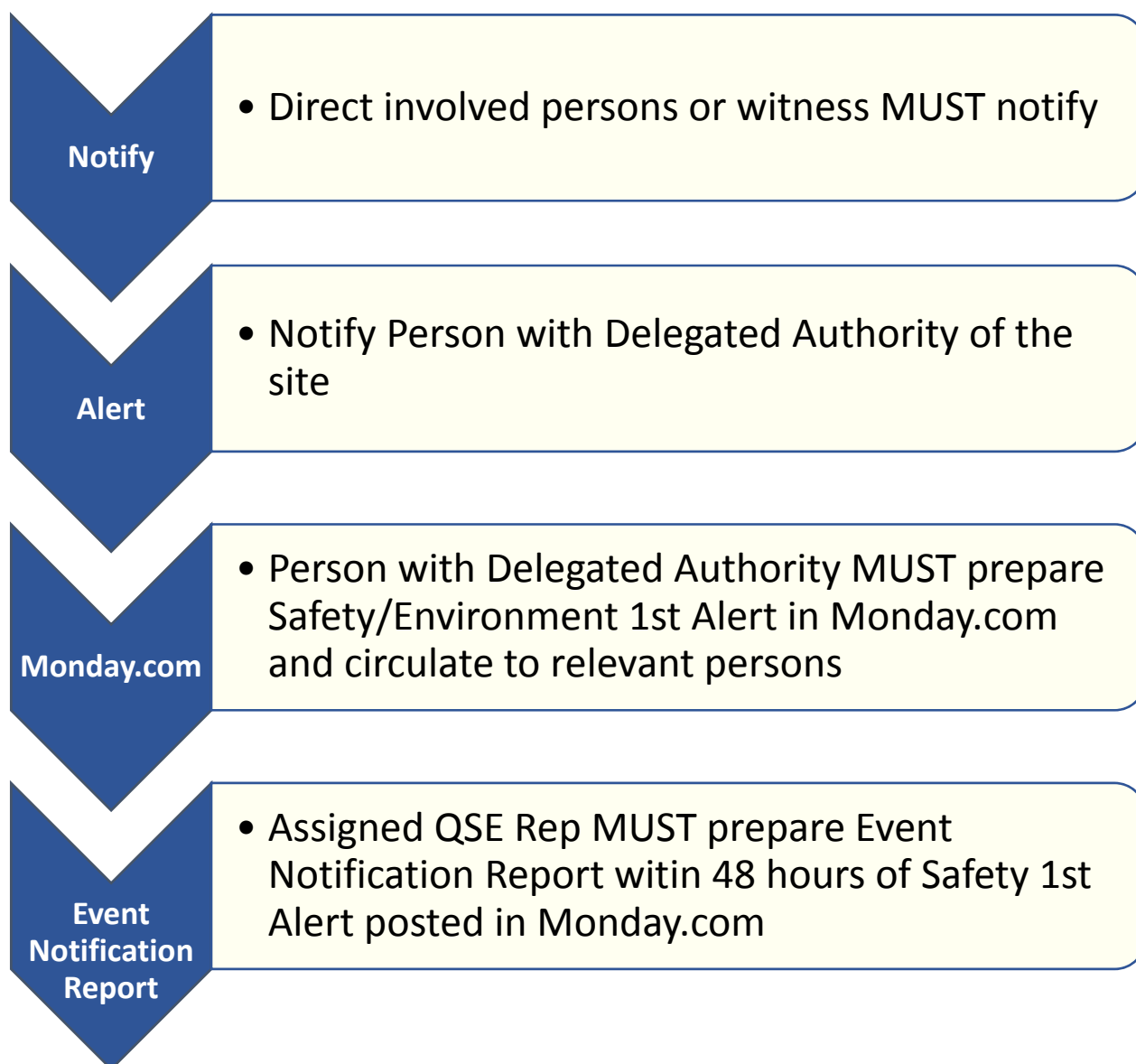
18.3 The QSE Team shall provide bi-annual awareness training to personnel with critical event responsibilities to ensure they are aware of their roles in the event of a Critical Event.

18.4 A critical event scenario shall be undertaken on an annual basis and undertaken from one of the project sites as per Emergency Response Plan. Upon completion of the scenario a review of this procedure will be completed by the QSE Team Leader and updated if required.

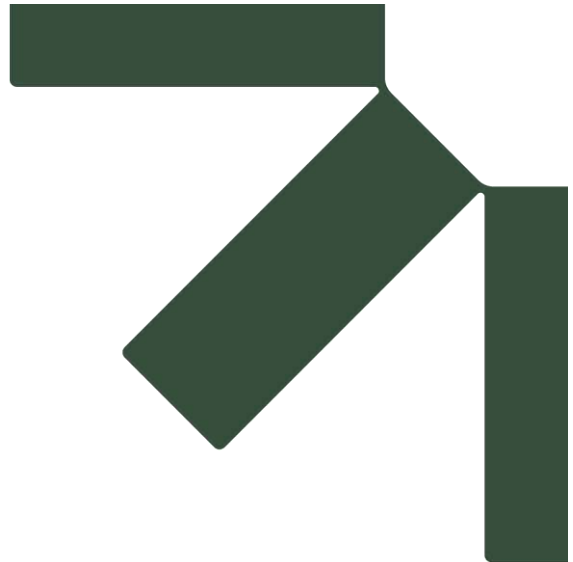


## APPENDIX 1

### SAFETY/ENVIRONMENT ALERT NOTIFICATIONS FLOWCHART



*Note: In the event the QSE Rep is **not** on site at the time of the incident, the 1st Alert will be entered by the Delegated Authority on site at the time of the incident (Engineer, Site Supervisor, Project Manager). If the QSE Rep **is** on site at the time of the incident, the QSE Rep will enter the 1st Alert.*



## **Appendix P     Incident Statement**

## INCIDENT STATEMENT

|                           |  |             |  |
|---------------------------|--|-------------|--|
| Job:                      |  | Job No.:    |  |
| Name:                     |  | Position:   |  |
| Employer / Subcontractor: |  | Supervisor: |  |
| Contact No.:              |  |             |  |

|                          |  |                        |  |
|--------------------------|--|------------------------|--|
| Location of Incident:    |  |                        |  |
| Date & Time of Incident: |  | Interview Time / Date: |  |

**Please fully describe the incident sequence from start to finish?**

*Include: your role in the event specifically including leading up to the event and action taken immediately after, relevant factors relating to the work environment and activities, weather, conditions, relevant project documentation*

*Continue on next page if required.*



***Any additional comments or observations?***

I acknowledge the above information is accurate to the best of my knowledge.

\_\_\_\_\_  
Name (Witness)

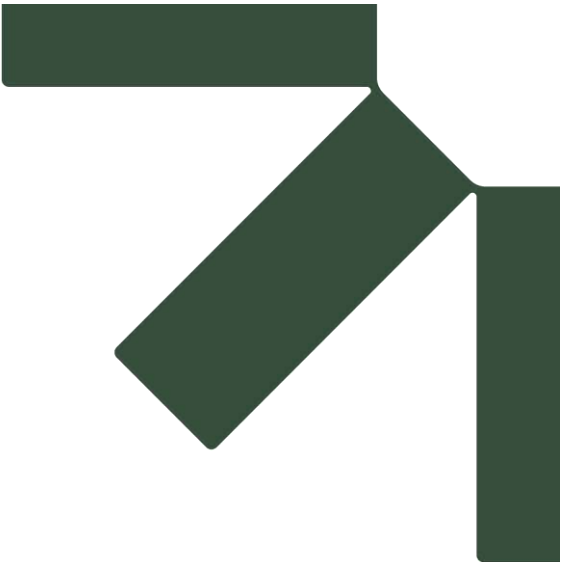
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name (Burton Rep)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



# Appendix Q    Witness Statement

## Construction Environmental Management Plan

**SSD-17647189 Access Logistics Estate  
884-928 Mamre Road, Kemps Creek**

**Altis Property Partners**

SLR Project No: 630.031426.00001

27 June 2024

This form is to be used only to record the observations of a person who was present and/or observed something before, during or after an Event.

The witness must provide their statement away from influence or distraction by others who may have been involved or witnessed the event.

Witness statements must be taken within 24 hours of the Event occurring.

|   |                           |                          |                                            |                          |                                             |
|---|---------------------------|--------------------------|--------------------------------------------|--------------------------|---------------------------------------------|
| X | Initial Witness Statement | <input type="checkbox"/> | Clarification required initiated by Burton | <input type="checkbox"/> | Supplementary Statement provided by Witness |
|---|---------------------------|--------------------------|--------------------------------------------|--------------------------|---------------------------------------------|

## WITNESS DETAILS

|                                                            |                                                                                   |  |                                                                                    |  |  |
|------------------------------------------------------------|-----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|--|
| Name:                                                      |                                                                                   |  | Job Title:                                                                         |  |  |
| Employer:                                                  |                                                                                   |  | Supervisor:                                                                        |  |  |
| Contact Details:                                           |  |  |  |  |  |
| Location of the Incident:                                  |                                                                                   |  |                                                                                    |  |  |
| Date of Incident:                                          |                                                                                   |  | Time of Incident:                                                                  |  |  |
| Name and contact info of others who may have been involved |                                                                                   |  |                                                                                    |  |  |
|                                                            |                                                                                   |  |                                                                                    |  |  |
|                                                            |                                                                                   |  |                                                                                    |  |  |

## WITNESS STATEMENT

Describe what you observed before, during or after the incident.

Include all relevant information that responds to the 4 questions below:

1. Describe / list the actions in sequence of how they occurred from your perspective.
2. Who was involved and what were they doing at the time
3. what injuries (if any) were suffered
4. what damage (if any) was caused

Be thorough, factual, and objective; do not offer opinion or make judgements.





## WITNESS STATEMENT

|                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------|--|
| <b>Was there anything unusual observed prior to or during the incident (sights, sounds, smells, etc):</b> |  |
| <b>What was your role in the incident sequence?</b>                                                       |  |
| <b>What conditions might've influenced the incident (weather, time of day, equipment, etc)?</b>           |  |
| <b>How did people influence the incident (actions, emergency response etc.)</b>                           |  |
| <b>In what way do you think the incident could have been prevented?</b>                                   |  |

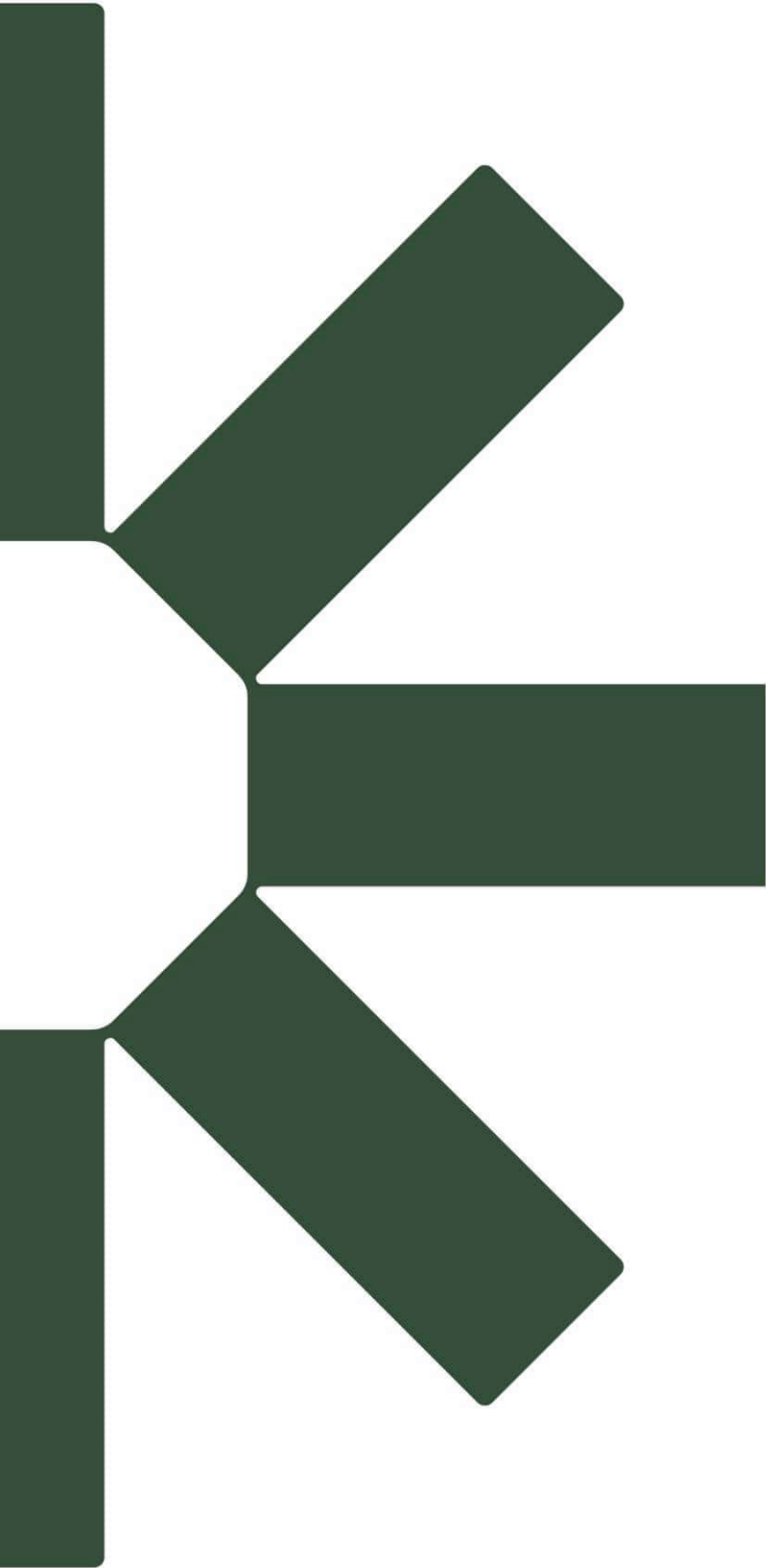
## SKETCH OF THE INCIDENT

## DECLARATION

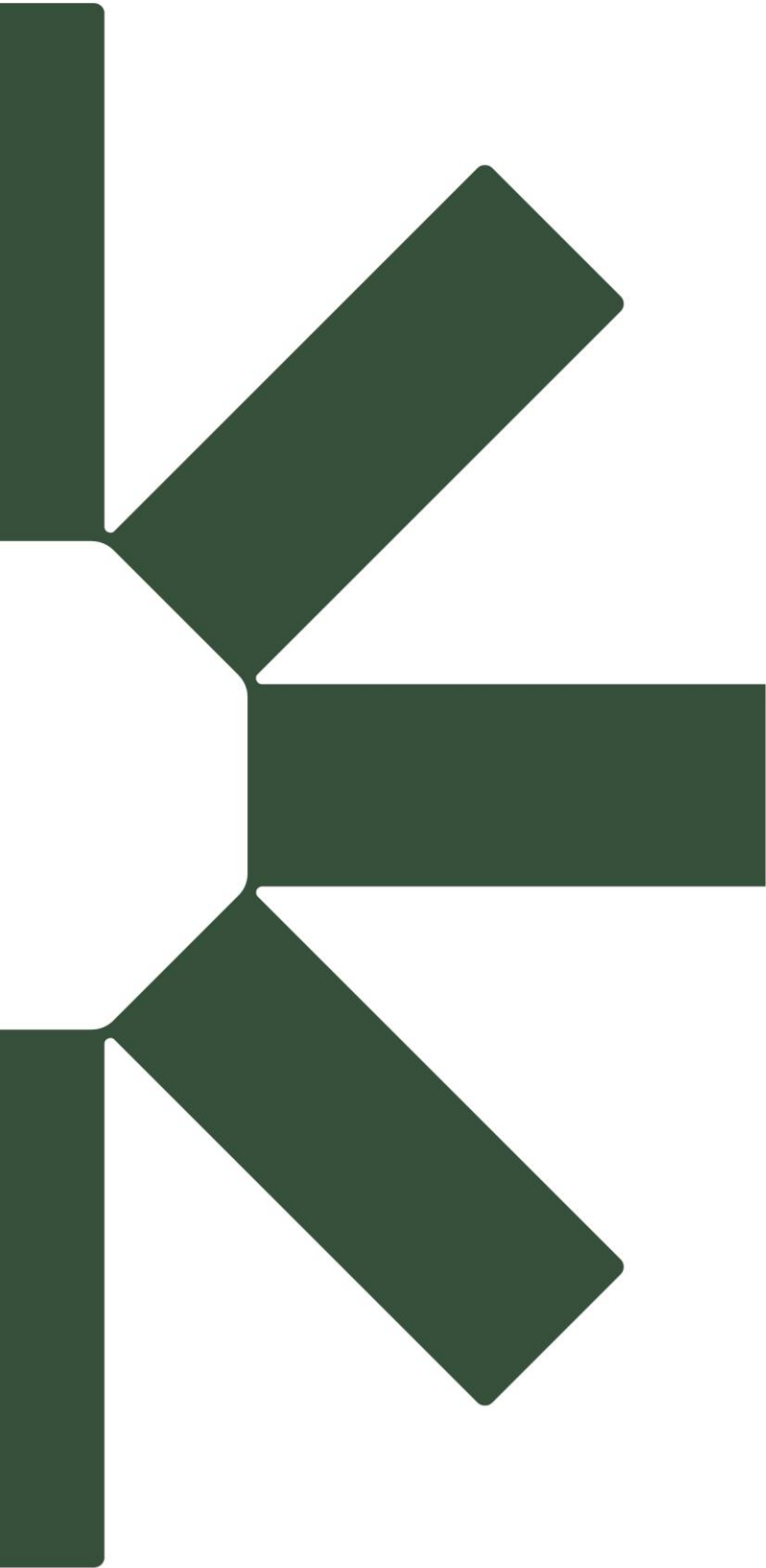
I acknowledge that the information provided in this form is a true account of my observations. I understand that this statement will be used as part of the investigation into the incident and therefore give consent for the personal information in this report to be provided to relevant internal (QSE & or Management Representatives, and (if required) external (e.g. WorkSafe, Police etc.) stakeholders directly related to the incident or investigation.

|                   |  |             |          |              |         |
|-------------------|--|-------------|----------|--------------|---------|
| <b>Signature:</b> |  | <b>Date</b> | 27/07/22 | <b>Time:</b> | 09:30pm |
|-------------------|--|-------------|----------|--------------|---------|





Making Sustainability Happen



Making Sustainability Happen