

## Appendix 2 – Updated Mitigation Measures

Updated mitigation measures are provided in the table below. The words proposed to be inserted are shown in ***bold italics*** and words proposed to be deleted are shown in ~~***bold italics***~~.

Potential impact	Mitigation measure
Noise	<p><b>Source controls</b></p> <ul style="list-style-type: none"> <li>• Implementation of any project specific mitigation measures required.</li> <li>• Implement community consultation or notification measures.</li> <li>• Site inductions</li> <li>• Behavioural Practices</li> <li>• Verification</li> <li>• Attended vibration measurements</li> <li>• Preparation of a Construction Environmental Management Plan (CEMP) and a Construction Noise and Vibration Management Plan (CNVMP)</li> <li>• Building condition surveys</li> <li>• Construction hours and scheduling</li> <li>• Construction respite period during normal hours and out-of-hours work</li> <li>• Equipment selection.</li> <li>• Plant noise levels.</li> <li>• Rental plant and equipment</li> <li>• Use and siting of plant.</li> <li>• Plan worksites and activities to minimise noise and vibration.</li> <li>• Reduced equipment power</li> <li>• Non-tonal and ambient sensitive reversing alarms</li> <li>• Minimise disturbance arising from delivery of goods to construction sites.</li> <li>• Engine compression brakes</li> </ul> <p><b>Path controls</b></p> <ul style="list-style-type: none"> <li>• Shield stationary noise sources such as pumps, compressors, fans etc.</li> <li>• Shield sensitive receivers from noisy activities.</li> </ul> <p><b>Receptor control</b></p> <ul style="list-style-type: none"> <li>• Structural surveys and vibration monitoring</li> </ul> <p>See Appendix C of the CNVG for additional measures</p>
Air Quality	<p><b>Communications</b></p> <ul style="list-style-type: none"> <li>• Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary.</li> <li>• Display the head or regional office contact information.</li> <li>• Develop and implement a Dust Management Plan (DMP), which may include measures to control other</li> </ul>

Potential impact	Mitigation measure
	<p>emissions, approved by the relevant regulatory authority.</p> <p><b>Site Management</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>Make the complaints log available to the relevant regulatory authority when asked.</li> <li>Record any exceptional incidents that cause dust and/or air emissions, either on- or off-site, and the action taken to resolve the situation in the log book.</li> </ul> <p><b>Monitoring</b></p> <ul style="list-style-type: none"> <li>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 relevant regulatory authority when asked.</li> <li>Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to the relevant regulatory authority when asked.</li> <li>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.</li> <li>Agree dust deposition or real-time PM10 continuous monitoring locations with the relevant regulatory authority.</li> </ul> <p><b>Preparing and Maintaining the Site</b></p> <ul style="list-style-type: none"> <li>Plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible.</li> <li>Erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site.</li> <li>Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period.</li> <li>Avoid site runoff of water or mud.</li> <li>Keep site fencing, barriers and scaffolding clean using wet methods.</li> <li>Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site.</li> </ul>

Potential impact	Mitigation measure
	<ul style="list-style-type: none"> <li>• Cover, seed or fence stockpiles to prevent wind whipping.</li> </ul> <p><b>Operating vehicle/machinery and sustainable travel</b></p> <ul style="list-style-type: none"> <li>• Ensure all vehicles switch off engines when stationary - no idling vehicles.</li> <li>• Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable.</li> <li>• Impose and signpost a maximum-speed-limit of 15 mph on surfaced and 10 mph 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 relevant regulatory authority, where appropriate).</li> </ul> <p><b>Operations</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate.</li> <li>• Use enclosed chutes and conveyors and covered skips.</li> <li>• Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.</li> <li>• 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.</li> <li>• <b><i>Minimising vehicle idling times around the Site using best management practices, including:</i></b> <ul style="list-style-type: none"> <li>○ <b><i>Requiring vehicle engines to be turned off when loading/unloading; when drivers are on a break, or waiting to get administrative clearances, etc.</i></b></li> <li>○ <b><i>Installation of appropriate signage at relevant locations encouraging drivers to switch off engines when not in use.</i></b></li> </ul> </li> <li>• <b><i>Mobile heavy lift equipment and other vehicles operated on site are maintained and operated as per manufacturer specifications or best practice requirements.</i></b></li> </ul>

Potential impact	Mitigation measure
	<ul style="list-style-type: none"> <li>• <b><i>Any spillages are cleaned up in a timely manner.</i></b></li> <li>• <b><i>Where possible sealed access roads and hardstand areas are maintained and the surface kept free of significant dust-generating materials.</i></b></li> </ul> <p><b>Waste Management</b></p> <ul style="list-style-type: none"> <li>• Avoid bonfires and burning of waste materials.</li> </ul> <p><b>Construction specific</b></p> <ul style="list-style-type: none"> <li>• Avoid scabbling (roughening of concrete surfaces) if possible.</li> <li>• 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.</li> </ul> <p><b>Trackout specific</b></p> <ul style="list-style-type: none"> <li>• Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use.</li> <li>• Avoid dry sweeping of large areas.</li> <li>• Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.</li> <li>• Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.</li> </ul> <p>Record all inspections of haul routes and any subsequent action in a site log book.</p>
Aboriginal Heritage	<ul style="list-style-type: none"> <li>• An opportunity is provided to the Aboriginal community to undertake a surface collection to conserve as many artefacts as possible. The artefact should be collected and moved to a designated reburial location to be integrated into the design.</li> <li>• Surface collection should take place across the entire impact footprint following vegetation clearance under the SSD consent.</li> <li>• Any changes made to the project should be assessed by an archaeologist in consultation with the RAPs.</li> <li>• An unexpected finds procedure must be developed and implemented during ground disturbing works.</li> <li>• Consultation with RAPs should continue throughout the life of the project, as necessary.</li> <li>• Protective fencing should be erected around AHIMS ID 45-5-2362 – EC 2(5) prior to the commencement of the proposed works.</li> <li>• <del>An arborist assessment should be completed to inform the development of a methodology to salvage AHIMS ID 45-5-2364 – EC 4(5) (scarred</del></li> </ul>

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	<p><del>tree). Long term management for the tree would be informed by the findings of the arborist report and consultation with the RAPs and advice from Heritage NSW.</del></p> <ul style="list-style-type: none"> <li>• Implementation of the Heritage Interpretation Strategy as prepared by Artefact</li> <li>• <b>An archaeological test excavation program is to be undertaken within the northern and southern portions of the PAD (Honeman Close PAD 1) identified by MDCA in 2007 to assess the presence or absence of sub-surface archaeological deposits (including potential contact archaeology) and identify the nature, depth and extent of these deposits.</b></li> <li>• <b>All the AHIMS site cards will be updated after the results of the test excavation has been completed.</b></li> </ul>
European Heritage	<ul style="list-style-type: none"> <li>• Potential archaeological resources are to be managed through an Unexpected Finds Procedure that is developed for the development.</li> <li>• All staff involved in the proposed works, including design professionals and tradespeople, must receive an heritage induction prior to the commencement of works.</li> <li>• Any additions or design modifications to the proposal, outside the scope of this assessment, would require additional heritage assessment to ensure consistency with the assessment under the SoHI.</li> </ul> <p>Recommendations of the Heritage Interpretation Strategy should be implemented.</p>
Ecology	<ul style="list-style-type: none"> <li>• Delineation of clearing limits</li> <li>• Instigating clearing protocols including preclearing surveys, prior to tree removal with a trained ecological or licensed wildlife handler during clearing events</li> <li>• Clearance staging</li> <li>• Hollow bearing tree relocation</li> <li>• Habitat salvage</li> <li>• Biosecurity management/ Hygiene protocols to prevent the introduction and spread of weeds or pathogens</li> <li>• Erosion and sediment controls</li> <li>• On site water management</li> <li>• Staff training and site briefing to communicate environmental features to be protected and measures to be implemented</li> <li>• Design lighting to minimise impacts to nocturnal and diurnal fauna</li> </ul>

Potential impact	Mitigation measure
	<ul style="list-style-type: none"> <li>• Preparation of a Construction Environmental Management Plan</li> <li>• <b><i>Preparation of a Vegetation Management Plan and Biodiversity Management Plan to detail the proposed management and mitigation measures within the on-site riparian corridors and conservation area.</i></b></li> <li>• <b><i>All fencing throughout the site is designed to appropriately exclude fauna and minimise vehicle strikes.</i></b></li> <li>• <b><i>Removal of the proposed illuminated signage along the southern building façades to minimise impacts of light spill.</i></b></li> </ul> <p><b><i>Adaptive management strategies for uncertain impacts, including impacts of shading on biodiversity.</i></b></p>
Traffic	<ul style="list-style-type: none"> <li>• Implementation of the CTMP and GTP as provided within the TAIA</li> </ul>
Sustainability	<ul style="list-style-type: none"> <li>• Implementation of the Energy Saving Lighting Design Recommendations and Water Saving Recommendations at Appendix A and Appendix B of the SMP.</li> <li>• Implementation of a 1,275 kW PV solar system</li> <li>• Implementation of solar hot water systems in staff amenities, including toilets, lunchrooms and cleaners room.</li> <li>• Warehouses are to utilise daylight-controlled LED lighting.</li> <li>• Motion sensors provided to all LED lights within the warehouse and offices.</li> <li>• Translucent roofing provided to warehouse areas.</li> <li>• Roof and external wall insulation to be provided per NCC requirements.</li> <li>• Passive solar design for external outdoor areas.</li> <li>• Efficient air conditioning system with control zoning.</li> <li>• Power sub-metering to enable continued review of power consumption for the offices and warehouses.</li> <li>• Landscaping to utilise a selection of endemic and low-maintenance species.</li> <li>• 150 kL rainwater tanks for rainwater harvesting and re-use for landscape irrigation and toilet flushing.</li> <li>• Low flow fixtures and fittings, including at least 4 star taps and shower heads.</li> <li>• Low VOC paints, carpet, and sealant for all offices.</li> <li>• 16 parking spaces are dedicated to electric cars with charging stations proposed.</li> <li>• Low carbon construction materials, including 15% replacement of cement with fly ash.</li> </ul>

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	<ul style="list-style-type: none"> <li>• More than 90% of the predicted construction waste arising from the development will be reused.</li> </ul>
Flooding/Stormwater	<ul style="list-style-type: none"> <li>• Implementation of the preliminary flood emergency response plan, including sheltering in place noting the entirety of the development is above PMF levels.</li> <li>• Implementation of the stormwater network as detailed in the On-lot Civil Plans, including On Site Detention to limit post-developed peak flows to pre-developed peak flow rates, ensuring no adverse flooding impacts downstream of the development.</li> <li>• Incorporating rainwater tanks to reduce the total volume of runoff discharging from the development and assist in supplying the development's non-potable water.</li> <li>• Implementation of Gross Pollutant Traps to capture litter, debris, and coarse sediment to improve quality of stormwater.</li> <li>• Implementation of two Jellyfish units upstream of the OSD tank.</li> <li>• Ocean Protect StormFilter cartridges within the OSD tank will provide tertiary stormwater treatment and will contribute to the removal of suspended solids, phosphorus, and nitrogen.</li> </ul>
Bushfire	<ul style="list-style-type: none"> <li>• At the commencement of building works and in perpetuity, the entirety of the site, with the exception of the 'Ecological Area' shall be maintained as an Asset Protection Zone. The APZ shall be established and maintained as an inner protection area as outlined within Planning for Bushfire Protection 2019 and the NSW RFS document 'Standards for Asset Protection Zones'.</li> <li>• Fire hydrants are provided in accordance with Building Code of Australia E1.3, AS2419.1:2005, including the ring main requirements for large, isolated buildings and those identified in Section 9 of the Bushfire Hazard Assessment.</li> <li>• The warehouse is to be constructed to comply with the National Construction Code (2019), Australian Standard AS 3959:2018, Construction of buildings in bush fire-prone areas and/or NASH Standard (1.7.14 updated), National Standard Steel Framed Construction in Bushfire Areas – 2014, and Section 7.5 of Planning for Bush Fire Protection 2019 on a prescriptive (deemed to satisfy and/or acceptable solution) basis and/or performance basis to the extent depicted in Figure 8 and described in Section 12.2 of the Bushfire Hazard Assessment.</li> </ul>

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	<ul style="list-style-type: none"><li>• All proposed roads must comply with section 5.3.2 of Planning for Bush Fire Protection 2019 as appropriate.</li></ul>