

1 REVISED COMPILATION OF MITIGATION MEASURES

Table 1-1 Revised compilation of mitigation measures

No.	Revised mitigation measure	Timing
General		
GE1	<p><u>A Construction Environmental Management Plan (CEMP) will be prepared prior to construction of the Proposal and would include:</u></p> <ul style="list-style-type: none"> • <u>Description of activities to be undertaken during construction (including the scheduling of construction)</u> • <u>Details of environmental policies, guidelines and principles to be followed in the construction of the Proposal</u> • <u>Responsibilities for the implementation of all mitigation measures</u> • <u>Inspection and reporting requirements</u> • <u>Protocols for managing and incidents and non-compliances</u> • <u>Procedures for rectifying any non-compliances identified during compliance auditing or at any time during construction.</u> 	<u>Construction</u>
Traffic, access and parking		
TA1	<p>A CEMP, or equivalent, will be prepared to address the specific traffic control requirements during the construction phase of the Proposal. The plan will assess the provision of traffic control measures, including:</p> <ul style="list-style-type: none"> • Site signage and road signage • Enforcement of speed limits for construction traffic • Site-internal pedestrian routes • Site induction for construction staff. The induction will include permitted access routes to and from the construction site for all vehicles, as well as standard environmental, occupational health and safety (OH&S), driver protocols and emergency procedures • Contracts outlining site traffic rules and traffic management requirements • Scheduling of construction vehicles entering and exiting the site via Muir Road. 	Construction
TA2	<p>Site-specific Traffic Control Plans (TCPs) will be prepared as part of the CEMP to outline how construction vehicle manoeuvres will be accommodated in and out of the work site. Temporary traffic controls will be regularly inspected by the contractor to identify potential safety hazards to enable implementation of the correct solutions.</p>	Construction

No.	Revised mitigation measure	Timing
TA3	<p>An (Operational Traffic Management Plan (OTMP) will be prepared to address the specific traffic control requirements during the operational phase of the Proposal. The plan will assess the provision of traffic control measures, including:</p> <ul style="list-style-type: none"> • Site signage and road signage • Enforcement of speed limits • Site-internal pedestrian routes • Scheduling processes. 	Operation
Air quality and odour		
AQ1	A CEMP, or equivalent, will be prepared for the Proposal to minimise air quality and odour impacts. Where appropriate, mitigation measures to minimise the air quality and odour impacts during construction will be reviewed and considered for incorporation into the CEMP.	Construction
AQ2	An Operational Environmental Management Plan (OEMP), or equivalent, will be prepared for the Proposal that will include measures to minimise air quality and odour impacts. Where appropriate, mitigation measures to minimise the air quality and odour impacts during operation will be reviewed and considered for incorporation into the OEMP.	Operation
Water quality and hydrology		
WH1	<p>A CEMP, or equivalent, will be prepared for the Proposal to minimise water and hydrology related impacts and will include the following:</p> <ul style="list-style-type: none"> • An (ESCP) will be prepared by a suitably qualified professional in accordance with the Blue Book (Landcom, 2004) and will include • An Erosion and Sediment Control Plan (ESCP) will be prepared by a suitably qualified professional in accordance with the Blue Book (Landcom, 2004) and will include at a minimum: <ul style="list-style-type: none"> – Type and location of erosion and sediment controls – Inspection and maintenance regimes following rainfall events • Construction traffic access points. Construction traffic will be restricted to delineated access tracks, and maintained until construction complete 	Construction

No.	Revised mitigation measure	Timing
WH2	<p>A Pollution and Incident Response Management Plan (PIRMP) and an Emergency Response Plan will be prepared for the Proposal to outline the procedure to be followed in the event of an incident or emergency during construction and operation. The PIRMP will cover the following types of emergency or incident:</p> <ul style="list-style-type: none"> • On-site spills or leaks • Off-site discharges • Flooding • Fire. <p>The PIRMP will include:</p> <ul style="list-style-type: none"> • Training and induction protocols. Induction will be provided to all staff and subcontractors outlining their responsibilities in the event of an emergency or incident • Incident response in the case of a fire, including: <ul style="list-style-type: none"> – Protocols for the containment and disposal of fire water • Notification requirements and timeframes to applicable authorities in the event of an emergency or incident • The location and content of a spill kit. A spill kit will be present on site at all times • Review regimes of the PIRMP. Regular reviews and updates will be made for the PIRMP as required. 	Construction and operation
WH3	<p>An OEMP, or equivalent, will be prepared for the Proposal to minimise water and hydrology related impacts and will include the management, maintenance and cleaning schedule to ensure that stormwater management system devices are regularly inspected and cleaned.</p>	Operation
WH4	<p>A Flood Emergency Response Plan (FERP) will be developed for operational phase of the Proposal. The FERP would take into consideration, site flooding and broader flood emergency response plans for the Upper Cooks River catchment. The FERP would also include the following:</p> <ul style="list-style-type: none"> • Identification of an area of safe refuge within the Proposal site that would allow people to wait until hazardous flows have receded and safe evacuation is possible • Identification of a flood warden and other responsible persons • Procedures for warning staff of potential flood danger. <p>The FERP will be completed in conjunction with Council and NSW State Emergency Service (SES).</p>	Operation

No.	Revised mitigation measure	Timing
Soils and contamination		
SC1	<p>A CEMP, or equivalent, will be prepared for the Proposal to minimise soil and contamination related impacts and will include the following:</p> <ul style="list-style-type: none"> • Maintenance requirements for erosion and sediment controls established across the Proposal site • A contingency plan for disturbance of unexpected contaminated materials (unexpected finds protocol), such as materials that are odorous, stained or containing anthropogenic materials, that may be encountered during construction • The location and content of a spill kit. A spill kit will be present on site at all times 	Construction
SC2	A PIRMP will be prepared for the Proposal to outline the procedure to be followed in the event of a chemical spill or leak during construction and operation. This will include notification requirements and use of absorbent material to contain the spill or leak.	Construction and operation
SC3	<p>An OEMP, or equivalent, will be prepared for the Proposal to minimise contamination related impacts and will include the following:</p> <ul style="list-style-type: none"> • A refuelling procedure that will be implemented for all refuelling activities undertaken. Any fuel, lubricant or hydraulic fluid spillages will be collected using absorbent material, and contaminated material would be transported to a licensed waste facility for disposal • The location and content of a spill kit. A spill kit will be present on site at all times 	Operation
Noise and vibration		
NV1	<p>A CEMP, or equivalent, will be prepared for the Proposal to minimise noise and vibration impacts and will include the following:</p> <ul style="list-style-type: none"> • Consideration of the selection of plant and processes with reduced noise emissions • A complaint handling process • Induction and training procedures for construction staff. An induction will be provided to relevant staff and sub-contractors outlining their responsibilities with regard to noise • Procedures for approval of any works undertaken outside of standard hours • <u>Identification of each work area, site compound and access route (both private and public)</u> • <u>Identification of the specific activities that will be carried out and associated noise sources at the premises and access routes</u> • <u>Identification of all potentially affected sensitive receivers the construction noise and vibration objectives.</u> 	Construction
NV2	An OEMP, or equivalent, will be prepared for the Proposal to address noise and vibration impacts. Where appropriate, mitigation measures to minimise the unnecessary generation of noise during operation will be reviewed and considered for incorporation into the OEMP.	Operation

No.	Revised mitigation measure	Timing
Hazards and risks		
HR1	<p>A CEMP, or equivalent, will be prepared for the Proposal to minimise hazards and risks and will include the following:</p> <ul style="list-style-type: none"> • Health and safety requirements for construction. Construction works, including the storage, handling and use of hazardous construction materials will be undertaken in accordance with the provisions of the <i>Work Health and Safety Act 2011</i> and <i>Work Health and Safety Regulation 2011</i>. • Operational access and egress points for emergency service personnel and workers. 	Construction
HR2	<p>A PIRMP and an Emergency Response Plan will be prepared for the Proposal to outline the procedure to be followed in the event of an incident or emergency during construction and operation. The PIRMP will be developed collaboratively with the construction contractor and site operator and in consultation with the NSW Police force, NSW Fire Brigade and the Ambulance Service of NSW. <u>Both the PIRMP and Emergency Response Plan will be prepared in accordance with AS 3745–2010 Planning for emergencies in facilities.</u></p> <p>Emergency response and incident management protocols will cover the following types of emergency or incident:</p> <ul style="list-style-type: none"> • Workplace health and safety • On-site spills or leaks • Off-site discharges • Hazardous materials / dangerous goods • Flooding • Road incidents, including incidents involving the transport of dangerous or toxic goods • Fire. <p>The PIRMP will include:</p> <ul style="list-style-type: none"> • Training and induction protocols. Induction will be provided to all staff and subcontractors outlining their responsibilities in the event of an emergency or incident • Incident response in the case of a fire, including: <ul style="list-style-type: none"> – Measures to prevent fires on site and for the management of hot loads (fires occurring in transfer vehicles) – Treatment of fires as an emergency. The extinguishment of fires will take precedence over normal operations – Protocols for the containment and disposal of fire water 	Construction and operation

No.	Revised mitigation measure	Timing
	<ul style="list-style-type: none"> – Maintenance requirements for firefighting equipment. All firefighting equipment will be regularly maintained in accordance with the equipment maintenance specification. Equipment will be replaced as necessary. • Notification requirements and timeframes to applicable authorities in the event of an emergency or incident • Non-confirming waste protocols • The location and content of a spill kit. A spill kit will be present on site at all times • Review regimes of the PIRMP. Regular reviews and updates will be made for the PIRMP as required. 	
Socio-economic		
SE1	<p>A CEMP and OEMP, or equivalent, will be prepared for the Proposal to minimise social impacts and will include the following:</p> <ul style="list-style-type: none"> • A consultation strategy outlining measures to maintain communication with the community and all relevant stakeholders throughout construction and operation • A complaint handling procedure. A complaints register will be maintained to manage public complaints regarding odours, vermin, litter, dust and noise • Measures to respond to complaints and feedback received during the construction and operation of the Proposal. 	Construction and operation
Biodiversity		
BD1	<p>A CEMP, or equivalent, will be prepared for the Proposal to minimise impacts to biodiversity and will include the following:</p> <ul style="list-style-type: none"> • Protocols around 'No Go' zones. Prior to commencement of construction, the Proposal site will be delineated from the patch of native vegetation in the north-western corner of the Chullora RRP with fencing to prevent inadvertent damage to the <u>threatened ecological community</u> (TEC) from construction activities. Signage should be attached to the fence identifying the area as a 'No Go Zone' • Environmental constraints maps clearly identifying the locations of threatened ecological communities adjacent to the Proposal boundary • Site induction protocols. Site inductions will include a briefing on local fauna and protocols to be undertaken if fauna are encountered • Requirements for lighting. Where feasible, directional lighting will be used where lighting is required • Consideration of the selection of plant and processes with reduced noise emissions. 	Construction

No.	Revised mitigation measure	Timing
BD2	<p>If any animal is injured, the relevant local wildlife rescue agency (e.g. WIRES) and / or veterinary surgery will be contact as soon as practical. Until the animal can be cared for by a suitably qualified animal handler, if possible, the stress of the animal will be reduced by:</p> <ul style="list-style-type: none"> • Handling fauna with care and as little as possible • Covering larger animals with a towel or blanket and placing in a large cardboard box • Placing small animals in a cotton bag, tied at the top • Keeping the animal in a quiet, warm, ventilated, and dark location. 	Construction and operation
Aboriginal heritage		
AH1	<p>An unexpected finds protocol will be prepared and included in the CEMP and OEMP. This protocol will outline the procedure for managing the identification of items of potential Aboriginal heritage significance during construction and operation. This protocol will include the following requirements:</p> <ul style="list-style-type: none"> • Works in the vicinity of the item will be required to cease • OEH will be immediately informed to determine the appropriate management strategy • Should items need to be disturbed (exposed, moved, damaged or destroyed), this will not be undertaken until an excavation permit is received under Section 139 of the <i>Heritage Act 1977</i>. <p>The duration of this will depend on the integrity and significance of the heritage item.</p>	Construction and operation
Non-Aboriginal heritage		
AH1	<p>An unexpected finds protocol will be prepared and included in the CEMP and OEMP. This protocol will outline the procedure for managing the identification of items of potential Aboriginal heritage significance during construction and operation. This protocol will include the following requirements:</p> <ul style="list-style-type: none"> • Works in the vicinity of the item will be required to cease • EES Group will be immediately informed to determine the appropriate management strategy • Should items need to be disturbed (exposed, moved, damaged or destroyed), this will not be undertaken until an excavation permit is received under Section 139 of the <i>Heritage Act 1977</i>. <p>The duration of this will depend on the integrity and significance of the heritage item.</p>	Construction and operation

No.	Revised mitigation measure	Timing
Greenhouse gas emissions		
GG1	<p>A CEMP and OEMP, or equivalent, will be prepared for the Proposal to minimise GHG emissions impacts and will include the following:</p> <ul style="list-style-type: none"> • Inclusion of energy efficiency design aspects, where practicable, in order to reduce energy and fuel consumption • Machinery selection considerations. Fuel efficiency of the construction plant and equipment will be assessed prior to selection, and where practical, equipment with the highest fuel efficiency and which uses lower GHG intensive fuel (e.g. biodiesel) will be used • Factors for considerations for the use of energy-efficient lighting and energy-efficient appliances. 	Construction and operation
Visual amenity		
VA1	<p>A CEMP and OEMP, or equivalent, will be prepared for the Proposal to minimise landscape and visual amenity impacts and will include the following:</p> <ul style="list-style-type: none"> • Locations for equipment and materials storage. All works equipment and material will be contained within designated boundaries of the Proposal site. Where possible, elements within the construction site will be located to minimise visual impacts, including: <ul style="list-style-type: none"> – Setting back large equipment from site boundaries – Minimising the height and spread of stockpiles, waste, and vehicle parking across the site – Site vehicles will be parked in appropriate locations • Cleaning protocols. Dust and dirt will be regularly cleaned from the road surface. Any graffiti will be promptly removed. 	Construction and operation
Waste management		
WM1	<p>A CEMP, or equivalent, will be prepared for the Proposal to minimise waste related impacts and will include the following:</p> <ul style="list-style-type: none"> • Waste prioritisation. Avoidance and reuse of construction materials will have priority over recycling materials. Recycling of materials will have priority over disposal of materials • Requirement to ensure that there Location and number of collections bins. There will be adequate placement of general waste and recycling bins around the Proposal site, with particular emphasis on the lunchroom and site office • Waste management protocols: <ul style="list-style-type: none"> – Management of any identified hazardous waste streams 	Construction and operation

No.	Revised mitigation measure	Timing
	<ul style="list-style-type: none">- Procedures to manage waste streams, including handling, storage, classification, quantification, identification, and tracking- Procedures and targets for reuse and recycling of waste materials.• Induction and training procedures for staff. An induction will be provided to relevant staff and sub-contractors outlining their responsibilities with regard to waste management.	