

Section 5

Draft Statement of Commitments

This section has been prepared in accordance with the requirements of Part 3A of the Environmental Planning and Assessment Act 1979, and presents a compilation of the actions and initiatives the Proponent commits to implement if the Belmont Coal Project is approved. These commitments are designed to effectively manage, mitigate, guide and monitor the Project from initial construction through to full production and eventually rehabilitation of the Project Site.

The Environmental Assessment of the Project has identified a range of environmental, social and management outcomes and measures, all required to avoid or reduce the environmental and social impacts of the Project.

*All parties involved in the design, establishment and operational phases of the Project will be required to undertake their work in accordance with these commitments. The commitments are presented in tabular form (**Table 5.1**) and identify the desired outcome, action and timing of commitments.*

***Figure 5A** (on Page 5-17) provides the layout of the Project Site and **Figure 5B** (on Page 5-19) records the locations of surrounding residences and monitoring locations relevant to these commitments. These are intentionally fold-out plans to assist readers when reviewing this section.*



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Table 5.1
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Desired Outcome	Action	Timing
1. Area of Activities		
All approved activities are undertaken in the area(s) nominated on the approved plans and figures (unless moved slightly to avoid individual trees).	1.1	Survey and mark the boundaries of the areas of disturbance on the ground.
	1.2	Survey and peg the centre line of the Site Access Road.
	1.3	Peg the centre line of the constructed section of the transport route, specifically within the easement of Shannon Harbour Road where a meander is to be created to avoid the majority of mature native trees.
2. Operating Hours		
Management of construction activities in accordance with the approved operating hours.	2.1	Undertake on-site construction within the hours of: 6.00am to 8.00pm / Monday to Saturday, 8.00am to 5.00pm / Sunday.
	2.2	Undertake transport route construction within the hours of: 7:00am to 8:00pm / Monday to Saturday, 8.00am to 5.00pm / Sunday.
Management of operations in accordance with the approved operating hours.	2.3	Undertake open cut mining, coal processing, coal transport and maintenance activities 24 hours per day / Monday to Saturday.
	2.4	Undertake rehabilitation and auger mining between 7:00am to 10:00pm / Monday to Saturday.
	2.5	Undertake drilling between 7:00am and 10:00pm / Monday to Saturday
	2.6	Undertake blasting between 9:00am and 5:00pm / Monday to Friday.
3. Waste Management		
Minimisation of general waste creation and maximisation of recycling, wherever possible.	3.1	Place all paper and general wastes originating from the Site Facilities Area, together with routine maintenance consumables from the daily servicing of equipment in garbage bins located adjacent to the various buildings.
Minimisation of the potential risk of environmental impact due to waste creation, storage and/or disposal.	3.2	Collect general waste bins daily and place contents in large waste skip bins positioned adjacent to the heavy vehicle maintenance building to await removal by licensed contractor.
	3.3	Organise the regular collection of industrial wastes.
	3.4	Store waste oils and grease at the maintenance workshop for collection by a licensed waste recycling contractor.



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Desired Outcome	Action	Timing
3. Waste Management (Cont'd)		
Minimisation of the potential risk of environmental impact due to waste creation, storage and/or disposal.	3.5 Collect all parts and packaging and transfer to the maintenance workshop for disposal or recycling.	As required.
	3.6 Store potentially hydrocarbon-contaminated water in the oil/water separator for regular removal from site by a licensed contractor.	As required.
	3.7 Install adequate toilet and ablution facilities within the mine facilities area for the site workforce and visitors.	During site establishment.
	3.8 Direct sewage to one or a combination of a bio-cycle (or equivalent system) with effluent irrigation to land or septic systems which would be pumped out by a licensed waste collection & disposal contractor.	As required.
4. Rehabilitation		
The creation of a stable final landform, available for the proposed future use(s) of agriculture and/or nature conservation.	4.1 Adopt a progressive approach to rehabilitation to ensure that completed areas are quickly shaped and vegetated to provide a stable landform.	Ongoing.
	4.2 Stabilise earthworks, drainage lines and disturbed areas no longer required for mine-related activities.	As areas become available.
	4.3 Create and improve habitat corridors on and adjacent to the Project Site and transport route.	During first year of progressive rehabilitation.
	4.4 Nominate an area of 84ha for the re-establishment of native vegetation.	Complete.
	4.5 Blend the created landforms with the surrounding land fabric.	Prior to mine closure.
	4.6 Utilise native tree, shrub and grass species and / or pasture species comparable with either the existing vegetation communities or those which occurred in the area prior to mining and agriculture-related disturbance.	Ongoing during rehabilitation activities.
	4.7 Retain cleared trees and branches for use in stabilising slopes identified for rehabilitation with native woodland communities.	Ongoing during rehabilitation activities.



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Desired Outcome	Action	Timing
5. Groundwater		
Prevention of groundwater contamination.	5.1 Securely store all hydrocarbon products within designated and bunded areas.	Ongoing.
	5.2 Refuel all of the mining fleet within designated areas of the Project Site.	Ongoing.
	5.3 Undertake all maintenance activities within designated areas of the Project Site facilities area, ie. maintenance workshop.	Ongoing.
	5.4 Direct all water from wash-down areas and workshops to oil/water separators and containment systems.	Ongoing.
	5.5 Ensure all storage tanks are either self-bunded tanks or bunded with an impermeable surface and a capacity to contain a minimum 110% of the largest storage tank capacity.	Ongoing.
Preparation of a contingency plan in the event that the availability or quality of groundwater is reduced for local groundwater users.	5.6 Undertake remedial action if the available drawdown attributable to the mine for the existing groundwater users is reduced by over 15%. The remedial actions that may be appropriate include the deepening of bores or replacement of bores to accommodate deeper, high lift pumps.	As required.
6. Flora and Fauna		
Minimisation of long term impact on flora and fauna on and around the Project Site.	6.1 Design the out-of-pit overburden emplacements to avoid, as far as practicable, remnant stands of vegetation.	Complete.
	6.2 Construct the transport route to avoid disturbance to native vegetation and minimise the number of mature trees that require removal by aligning it either through cleared paddocks or along a meandering alignment within the Shannon Harbour Road reserve.	During site establishment.
	6.3 Minimise clearing and consistent with operational requirements.	During clearing.
	6.4 Clearly define all areas to be cleared and conduct all soil stripping would be undertaken in campaigns on an as-needs basis.	Prior to clearing.
	6.5 Construct any additional internal roads required on the cleared lands well away from stands of native vegetation.	Ongoing.



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Desired Outcome	Action	Timing
6. Flora and Fauna (Cont'd)		
Minimisation of long term impact on flora and fauna on and around the Project Site.	6.6 Control noxious weeds at all times.	Ongoing.
	6.7 Establish and enhance habitat corridors, linking the vegetation of Vickery State Forest with remnant areas of vegetation on and surrounding the Project Site.	During initial stages of progressive rehabilitation.
	6.8 Align the relocations of Wean Road and Jaeger Lane through cleared paddocks to minimise further removal of native vegetation.	Prior to commencement of realignments.
	6.9 Carry out, where possible, tree removal, especially the mature trees in late spring and early autumn to avoid spring nesting birds and over-wintering bats.	Ongoing.
	6.10 Undertake inspections of mature trees for nesting birds and roosting bats prior to each clearing campaign.	Prior to clearing.
	6.11 Relocate any nesting and roosting hollows, as well as nests, used by listed threatened species to appropriate locations nearby.	Ongoing.
	6.12 Place all branches and tree trunks <300mm in diameter or containing hollows over the areas of the final landform designated for the re-establishment of native vegetation. No less than 50% in volume of fallen timber and logs suitable for farm use and firewood should be left on the ground.	Ongoing.
	6.13 Prohibit the burial or burning of fallen timber, stags, logs or vegetation debris from any vegetation clearing for the proposed mining activity.	Ongoing.
	6.14 Commence progressive rehabilitation of the open cut area as soon as possible to re-establish the connectivity of habitat corridor along Jaeger Lane and Wean Road.	Year 1 of mining operation.
	6.15 Rehabilitate the Western Emplacement to a community that is consistent with the adjoining Vickery State Forest.	Ongoing.



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Desired Outcome	Action	Timing
6. Flora and Fauna (Cont'd)		
Minimisation of long term impact on flora and fauna on and around the Project Site.	6.16 Rehabilitate the final void and long-term water management structures to include appropriately designed post-mining wetland areas to replace the loss of the creek gallery habitat.	Ongoing.
	6.17 Incorporate the creation or enhancement of wildlife corridors into a biodiversity offset strategy. This should consider inclusion of recommendations (ix) to (xii) and (xvii) of Countrywide Ecological Service (2007).	Prior to clearing.
	6.18 Prepare a vegetation management plan for those areas of the Project Site not used for ongoing grazing and cropping.	Within 12 months of commencement of mining.
	6.19 Reduce speed limits to 60km/hr along the Shannon Harbour Road section of the transport route.	Ongoing.
	6.20 Include a vertebrate pest control program as part of the mining operation.	Within 12 months of commencement of mining.
	6.21 Design causeways to ensure that natural creek flows are not interfered with.	Prior to commencement of the Project.
	6.22 Avoid the clearing of native vegetation along the road shoulders where the transport route utilizes public roads.	Ongoing.
	6.23 Preserve any existing vermin-proof fence along the constructed section of the transport route.	Ongoing.
7. Aboriginal Heritage		
Provide appropriate protection to identified Aboriginal artefacts.	7.1 Provide for and manage the salvage of Aboriginal artefacts for relocation to the Cumbo Gunerah Keeping Place.	Following submission of the EA.
	7.2 Obtain a S85A Care and Control Permit under the NPW Act prior to relocation of the artefacts to the Cumbo Gunerah Keeping Place.	Prior to relocation of the artefacts
	7.3 Align the transport route to avoid disturbance to the scarred trees ST1 and ST2.	Prior to commencement of construction.
	7.4 Locate the proposed light vehicle entrance away from Btree 1 and Btree 2.	Prior to commencement of construction.



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Desired Outcome	Action	Timing
7. Aboriginal Heritage (Cont'd)		
Provide appropriate protection to identified Aboriginal artefacts.	7.5 Enclose the scarred trees identified within a fenced area of at least 20m radius from the tree with the location and words "Culturally Sensitive Area – Aboriginal Scarred Tree" marked on all mine plans.	Prior to commencement of construction.
	7.6 Report all mitigation measures undertaken for all identified Aboriginal objects within the mine area.	As part of the preparation of a Cultural Heritage Management Plan.
Minimise potential to impact upon unidentified Aboriginal artefacts.	7.7 Invite Aboriginal monitors to site for all topsoil stripping along the north-south oriented tributary traversing the Project Site. Manage any sites detected in accordance with the relevant acts.	Ongoing.
	7.8 Cease work at any area if further Aboriginal objects are uncovered during the course of the Project, and contact the DECC (NPWS) for advice.	Ongoing.
Employees who are sensitive and respectful of possible identified Aboriginal sites and artefacts.	7.9 Conduct a Cultural Heritage Awareness Induction Course for staff, contractors and any heritage monitors working on the Project Site.	Ongoing.
	7.10 Prepare an Aboriginal Heritage Management Plan.	Within 6 months of project approval.
Equity of Aboriginal involvement in the identification and management of Aboriginal Cultural Heritage Issues.	7.11 Maintain and continue equitable communication and involvement in the management of Aboriginal cultural heritage by all registered Aboriginal parties	Ongoing.
Notification of Aboriginal Sites under Part 6 s91 NPWS Act.	7.12 Supply formal site cards for all identified Aboriginal artefacts to the DECC Aboriginal Heritage Information Management System (AHIMS) Registrar.	Following identification of an Aboriginal artefact or site.
Protect and enhance traditional and ongoing Aboriginal cultural values in the native vegetation of the area.	7.13 Include culturally important vegetation in the rehabilitation of the Project Site.	During rehabilitation.
8. Noise and Vibration		
All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.	8.1 Avoid all noisy activities occurring concurrently during construction particularly before 9.00am when the affects of local inversions may be noticeable.	During construction period.



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Desired Outcome	Action	Timing
8. Noise and Vibration (Cont'd)		
All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.	8.2 Construct the northern stockpile and eastern perimeter stockpile to provide an acoustic barrier between the open cut and nearest non-project related residence.	During construction period and first year of Mining Operations.
	8.3 Undertake in-pit overburden placement when prevailing winds are from the northwest or south.	Ongoing.
	8.4 Use equipment with lower sound power levels in preference to more noisy equipment.	Ongoing.
	8.5 Instruct all truck drivers to avoid the use of engine brakes when approaching the Project Site entrance and transport route intersections.	Ongoing.
	8.6 Regularly service all equipment used on site to ensure the power sound levels remain at or below the levels specified in the noise assessment for the EA.	Ongoing.
	8.7 Fit mid-high frequency broadband beepers to mobile mining equipment.	Prior to operation of mobile equipment on the Project Site.
	8.8 Ensure the on-site road network is well maintained to limit body noise from empty trucks travelling on internal roads.	Ongoing.
	8.9 Establish a noise monitoring program (NMP), in consultation with the DECC (NPWS), to initially validate the predictions arising from the modelling and then record noise levels against the Project noise criteria. The NMP would include a noise monitoring protocol which would include the contingent measures to be followed should non-compliant noise levels be measured.	Within 6 months of project approval.
9. Blasting		
All blasting is designed and carried out to industry standards, to meet nominated airblast and ground vibration criteria and to minimise impacts on surrounding land owners of the Project Site.	9.1 Blast design and implementation would be undertaken by a suitably qualified blasting engineer and/or experienced and appropriately certified shot-firer.	Ongoing.
	9.2 Orientate the blast face, where practical, away from or at an oblique angle to nearby residences.	Ongoing.
	9.3 Implement blasthole spacing in accordance with blast design.	Ongoing.



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Desired Outcome	Action	Timing
9. Blasting (cont'd)		
All blasting is designed and carried out to industry standards, to meet nominated airblast and ground vibration criteria and to minimise impacts on surrounding land owners of the Project Site.	9.4 Select appropriate burden distance and stemming length and then implement precisely.	Ongoing.
	9.5 Use appropriate materials, eg. 20mm aggregates, for stemming.	Ongoing.
	9.6 Limit the maximum instantaneous charge (MIC) to conservative and proven levels.	Ongoing.
Impacts on local land owners are minimised.	9.7 Implement a notification procedure for all residents within 3km of the Project Site.	Prior to first blast.
	9.8 Install a blast notice board on Wean Road notifying of the next blast.	Prior to first blast.
The safety of local road users is not effected by blasting events and disruption to local traffic is minimised.	9.9 Close Wean Road for the duration of each blast within 500m of Wean Road.	Ongoing.
	9.10 Update blast notice boards on Wean Road at least 24 hours prior to each blast.	Ongoing.
The safety of local road users is not effected by blasting events and disruption to local traffic is minimised.	9.11 Inspect Wean Road for blast debris following each blast within 500m of the road.	Ongoing.
10. Surface Water		
Diversion of clean water flows away from areas of project related disturbance.	10.1 Construct diversion banks (DB1 and DB2) and waterways (WW1, WW2 and WW3) upstream of mining and other related disturbance to the design specifications of Tables 4B.24 and 4B.25 .	Prior to disturbance in relevant catchment of the Project Site.
	10.2 Construct clean water storage dams (SD1, SD2, SD3 and GBD1) at the discharge points of the diversion structures and to the design specifications of Table 4B.26 .	Prior to disturbance in relevant catchment of the Project Site.
	10.3 Inspect the diversion banks and storage dams on a monthly basis, or following rainfall of >25mm/24 hours, and undertake maintenance work as necessary.	Monthly or following rainfall of >25mm/24 hours.
Capture of dirty water flows from areas of project related disturbance.	10.4 Construct catch banks (CB1 to CB8) downstream of mining and other related disturbance to the design specifications of Table 4B.27 .	Prior to disturbance in relevant catchment of the Project Site.
	10.5 Inspect the catch banks on a monthly basis, or following rainfall of >25mm/24 hours, and undertake maintenance work as necessary.	Monthly or following rainfall of >25mm/24 hours.
	10.6 Construct sediment basins (SB1 to SB8) at the discharge points of the catch banks and to the design specifications of Table 4B.28 .	Prior to disturbance in relevant catchment of the Project Site.



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Desired Outcome	Action	Timing
10. Surface Water (Cont'd)		
Capture of dirty water flows from areas of project related disturbance.	10.7 Install a marker post indicating a 20% capacity reduction level within each sediment basin.	Immediately following sediment basin construction.
	10.8 Inspect the sediment basins on a monthly basis, or following rainfall of >25mm/24 hours, and clean out the sediment basins of consolidated sediment once capacity reduced by 20%.	Monthly or following rainfall of >25mm/24 hours.
	10.9 Review general performance of catchment and settlement structures and upgrade the existing structures or install additional structures to ensure all dirty water is captured and settled prior to discharge.	Ongoing.
Discharged water quality to meet nominated criteria.	10.10 Construct catchment and settlement structures 'in-line' such that overflow from one structure is directed to another downstream.	During construction.
Discharged water quality to meet nominated criteria.	10.11 Ensure drainage paths between the catchment and settlement structures are well grassed.	Ongoing.
	10.12 Maintain and grass coverage of >70% over the Project Site.	Ongoing.
	10.13 Undertake monitoring of any discharged water from the Project Site within 24 hours of discharge event.	Within 24 hours of discharge commencing.
	10.14 Add flocculants to sediment-laden water within the sediment basins, if required, to expedite the settlement process.	Ongoing.
	10.15 Ensure any water discharged from nominated discharge points (SD1 and SD3) meets the DECC Environment Protection Licence criteria, expected to be as follows. - TSS < 50mg/L. - pH: 5.5 to 8.5. - Oil & grease < 10mg/L. - Electrical conductivity < 350µS/cm	Ongoing.
Prevention of hydrocarbon contamination of water on the Project Site.	10.16 Monitor mine inflows and, through comparison against the predictions of RCA (2007).	Ongoing.
	10.17 Notify the DECC of the requirement for the construction of a pit water dam at surface and forward proposed location and design details for approval prior to construction.	Ongoing.



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Desired Outcome	Action	Timing
10. Surface Water (Cont'd)		
Prevention of hydrocarbon contamination of water on the Project Site.	10.18 Securely store all hydrocarbon products.	Ongoing.
	10.19 Refuel all but the less mobile mining equipment which would be refuelled within the open cut area, within designated areas.	Ongoing.
	10.20 Direct all water from wash-down areas and workshops to oil/water separators and containment systems.	As required.
	10.21 Ensure all storage tanks are either self-bunded tanks or bunded with an impermeable surface and have a capacity to contain a minimum 110% of the largest storage tank capacity.	
	10.22 Implement a 3-phase remedial action plan in the event of a major hydrocarbon spill as follows.	
	• Phase 1 – Initial Recovery: Recover as much as possible at the source by pumping free hydrocarbon from the surface and excavating hydrocarbon-contaminated materials. • Phase 2 – Source Control: Begin hydraulic control of the source to prevent spreading of contamination. • Phase 3 – Recovery: If necessary, install boreholes to remove and treat contaminated groundwater.	
11. Visibility		
The operation of the Siding Springs Observatory and/or the Australia Telescope Compact Array (ATCA), at the Paul Wild Observatory is not affected by Project operations.	11.1 Use a maximum of six lighting plants for night-time activities.	Ongoing.
	11.2 Position all floodlights downward during night-time operations and turn off when not required.	Ongoing.
Reduce the impact of the project on the visual amenity of private and public vantage points.	11.3 Design the overburden emplacements to as much as possible, replicate existing topographic features.	Complete.
	11.4 Minimise the extent of land disturbance / clearing in advance of mining.	Ongoing.
	11.5 Maintain the mine and associated areas of disturbance in a clean and tidy condition at all times.	Ongoing.
	11.6 Maintain regular communications with those residents whose visual amenity is affected by the Project and implement any reasonable additional controls to further reduce the impact on their visual amenity.	Ongoing.



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Desired Outcome	Action	Timing
12. Traffic and Transport (Cont'd)		
All motorists travel safely to and from the Project Site with minimal disruption to traffic on Blue Vale Road and the Kamlaroi Highway during construction activities on Shannon Harbour Road and the intersection with Blue Vale Road.	12.1 Prepare a Traffic Management Plan to RTA standards to ensure appropriate procedures are in place during the construction activities on the transport route.	Prior to commencement of construction activities.
	12.2 Seal and provide centre and edge line markings on all public road sections of the transport route.	Prior to commencement of coal transport activities.
	12.3 Close Shannon Harbour Road at the Wean Road end and erect a sign displaying "No Through Road" at the Hoad Lane end.	Prior to commencement of coal transport activities.
	12.4 Contact all potentially affected landowners and surrounding residents prior to initial construction and the commencement of any upgrading works to inform / discuss the proposed works.	Prior to commencement of construction activities.
	12.5 Undertake all transport activities strictly in accordance with the project approval and environment protection licence.	Ongoing.
	12.6 Undertake all deliveries of "oversize" loads in accordance with RTA and Council restrictions on transport hours and safety / warning requirements.	Ongoing.
	12.7 Stagger late night and early morning truck movements to limit the number of empty truck movements along the transport route between 10.00pm and 7.00am.	Ongoing.
	12.8 Maintain the communication system currently in use at the Whitehaven Coal Mine between the truck drivers and local school bus drivers on school days and implement a 40km/hr speed limit on approach to school bus.	Ongoing.
	12.9 Adopt a covered load policy to all trucks transporting coal from the mine and backloading rejects from the Whitehaven CHPP.	Ongoing.
	12.10 Ensure all trucks transporting coal are well maintained and that drivers act in a courteous manner at all times.	Ongoing.
	12.11 Ensure all truck drivers operate in accordance with a Transport Policy and Code of Conduct.	Ongoing.



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Desired Outcome	Action	Timing
12. Traffic and Transport (Cont'd)		
Minimisation of disruption to users of the Hoad Lane, Blue Vale Road and the Kamilaroi Highway.	12.12 Reduce the number of truck movements along the transport route with the use of 40t B-Doubles.	Ongoing.
	12.13 Restrict the number of coal truck movements to that proposed in Table 2.7 and 2.8 .	Ongoing.
	12.14 Instruct drivers of all heavy vehicles to access the Project Site via the transport route.	Ongoing.
	12.15 Construct the Site Access Road and transport route as illustrated in Figures 2.1 and 2.2 .	During site establishment.
	12.16 Construct the proposed intersection between Shannon Harbour Road and Hoad Lane as illustrated in Figure 4B.22 and in accordance with RTA specifications.	During site establishment.
	12.17 Erect appropriate road signage.	During site establishment.
	12.18 Transport all oversize loads with all necessary permits.	During transport of oversize loads.
	12.19 Erect a blast board on Wean Road and update at least 24 hours prior to each blast.	Ongoing.
The realignment of Wean Road is completed without unnecessary disruption to local traffic.	12.20 Construct the realigned road to a standard similar to the existing road.	During realignment of Wean Road.
	12.21 Prepare a Traffic Management Plan to ensure appropriate procedures are in place for public traffic during the realignment of Wean Road.	Prior to commencement of the realignment of Wean Road.
13. Soils, Land Capability and Agricultural Suitability		
Maintenance of soil value for rehabilitation and minimisation of soil loss through erosion.	13.1 Strip topsoil and subsoil to the depths nominated in the EA.	Ongoing.
	13.2 Transfer and respread directly stripped soil materials directly over areas to be rehabilitated following the first 18 to 24 months of mine operations.	Ongoing.
	13.3 Place higher alkalinity soils over the surface of the overburden emplacement to provide neutralising capacity in the event pockets of acid forming rock are encountered.	Ongoing.
	13.4 Install erosion protection around soil stockpiles.	Ongoing.



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Desired Outcome	Action	Timing
13. Soils, Land Capability and Agricultural Suitability (Cont'd)		
Maintenance of soil value for rehabilitation and minimisation of soil loss through erosion.	13.5 Limit topsoil and sub soil stockpiles to 2m and 3m in height respectively.	Ongoing.
	13.6 Seed any stockpiles retained for over three months with a non-persistent cover crop.	Ongoing.
	13.7 Maintain and regularly reconcile with rehabilitation requirements an inventory of soil resources present on the Project Site.	Annually.
	13.8 Divert surface water flow away from soil stockpile areas.	Prior to commencement of stockpiling.
	13.9 Monitor erosion from soil stockpiles or rehabilitated surfaces throughout the life of the Project with remedial works undertaken should erosion be observed.	Ongoing.
	13.10 Undertake all clearing and topsoil stripping in campaigns on an as-needs basis.	Ongoing.
14. Air Quality		
Site activities are undertaken without exceeding DECC air quality criteria or goals.	14.1 Minimise clearing ahead of construction and operational activities.	Ongoing.
	14.2 Undertake soil stripping at a time when there is sufficient soil moisture to prevent significant lift-off of dust.	Ongoing.
	14.3 Avoid stripping soil in periods of high wind.	Ongoing.
	14.4 Use water application to increase soil moisture should stripping occur during periods of high wind or low soil moisture.	Ongoing.
	14.5 Utilise water injection on the drill rigs or alternatively fit them with dust collectors.	Ongoing.
	14.6 Avoid ripping of softer overburden material during periods of high wind.	Ongoing.
	14.7 Spray low moisture coal with water prior to excavation to raise moisture content to >6%.	Ongoing.
	14.8 Apply water to the coal at the feed hopper, crusher and all conveyor transfer and discharge points at the rate of approximately 1.5L/t coal processed.	Ongoing.
	14.9 Install bund walls and wind breaks as required.	Ongoing.



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Desired Outcome	Action	Timing
14. Air Quality (Cont'd)		
Site activities are undertaken without exceeding DECC air quality criteria or goals.	14.10 Avoid coal being loaded above the truck body sides.	Ongoing.
	14.11 Cover all trucks carrying product coal from the mine with approved covers and securely fix the tailgates to prevent windblown dust emission or spillages.	Ongoing.
	14.12 Fit all earthmoving equipment on-site with exhaust controls which satisfy NSW DECC emission requirements.	Ongoing.
	14.13 Direct the exhausts of all equipment upwards or to the side so as not to cause dust lift-off.	Ongoing.
	14.14 Temporarily cease operation in the event of protracted dry periods, high winds and significant dust generation and dispersal towards the surrounding residences.	Ongoing.
	14.15 Undertake an air quality monitoring program to demonstrate compliance with the nominated goals. - Deposited dust at selected residences and strategic locations surrounding the Project Site. - Continuous wind speed and direction at the Project Site weather station.	Within 6 months of project approval.
Minimise the generation of greenhouse gases as a consequence of the Project.	14.16 Assess each of the measures recommended by Heggies (2007) and report on the implementation of those determined to be practicable.	Within 3 months of project approval and within each AEMR.
15. Socio-Economic		
Maximise benefits to local community.	15.1 Implement a policy which encourages employment of local district personnel.	Complete.
	15.2 Preferentially use local contractors and suppliers for goods and services.	Ongoing.
	15.3 Provide a local induction kit to any new workers (from outside the district) including contact details for community groups and services throughout the region.	Prior to commencement of recruitment.
	15.4 Investigate contributing to community facilities and infrastructure should significant population increases associated with the Project impact on the local infrastructure and / or service provision.	Ongoing.

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Desired Outcome	Action	Timing
16. Bushfire Hazard		
Minimise potential for initiation of fire as a consequence of blasting.	16.1 Clear vegetation away from blast (>20m).	Ongoing.
	16.2 Remove all coal from open cut around blast.	Ongoing.
	16.3 Undertake blast design by qualified personnel.	Ongoing.
	16.4 Inspect blast prior to blast.	Ongoing.
	16.5 Ensure water truck is available to douse any smouldering vegetation etc.	Ongoing.
	16.6 Undertake refuelling within designated fuel bays or within cleared area of the Project Site.	Ongoing.
	16.7 Turn vehicles off during refuelling.	Ongoing.
	16.8 Enforce no smoking policy in designated areas of the Project Site.	Ongoing.
	16.9 Maintain fire extinguishers within site vehicles.	Ongoing.
Minimise potential for initiation of fire through spontaneous combustion of coal.	16.10 Regularly inspect and water stockpiles.	Ongoing.
	16.11 Control stockpile height and volume to limit the duration coal is retained in stockpiles.	Ongoing.
Manage potential and actual bushfire occurrences in accordance with local bushfire control plans.	16.12 Prepare a Bushfire Management Plan for the Project.	Within 6 months of the Project commencing.
	16.13 Regularly liaise with NSW Forests personnel in relation to bushfire hazard posed by Vickery and Kelvin State Forests.	Ongoing.
17. Environmental Monitoring		
Groundwater		
Monitor and record environmental impacts on the local environment	17.1 Monitor the SWL, saturated thickness and water quality of the nine registered bores that RCA (2007) predicts may be significantly affected by the Project, namely • GW050395, GW050166, GW011015 & GW011066 – on the “Glenroc” property; • GW045621 - on the “Yarrowonga” property; • GW044068 & GW044069 - on the “Yarrari” property; and • GW022319 - on the “Roseberry” property.	SWL and saturated thickness - quarterly. Water quality – annually.



Table 5.1 (Cont'd)
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Desired Outcome	Action	Timing
17. Environmental Monitoring (Cont'd)		
Groundwater (Cont'd)		
Monitor and record environmental impacts on the local environment	17.2 Construct and monitor the SWL and saturated thickness of three piezometers on Proponent-owned land between the open cut and the nearest non Project-related groundwater bores (see Figure 5B).	Continuously (data logger) with downloads monthly.
	17.3 Monitor water quality of the in-pit sump.	6 monthly.
	17.4 Prepare and implement a groundwater monitoring program, in consultation with the DWE and DoP.	Prior to the commencement of coal mining.
Surface Water		
Monitor and record environmental impacts on the local environment	17.5 Undertake monitoring of surface water quality as presented in Table 4B.30 .	Various.
	17.6 Prepare and implement a surface water monitoring program, in consultation with the DWE and DoP.	Prior to the commencement of coal mining.
Noise		
Monitor and record environmental impacts on the local environment	17.7 Complete noise validation modelling (attended and unattended monitoring) at the “Costa Vale” and “Surrey” residences during site establishment activities and during initial 3 months of mining.	Quarterly until model predictions validated.
	17.8 Complete attended and unattended monitoring at the “Costa Vale” and “Surrey” residences to monitor compliance with operational noise criteria.	6 monthly.
	17.9 Complete attended monitoring at the “Brooklyn” residence to monitor compliance with traffic noise criteria.	Annually.
	17.10 Prepare a noise monitoring program for both operational and traffic noise.	Within 3 months of project approval.
Blasting		
Monitor and record environmental impacts on the local environment	17.11 Monitor all blasts for air overpressure and ground vibration at the “Costa Vale” residence.	Every blast.
	17.12 Prepare a blast monitoring program.	Within 3 months of project approval.
Air Quality		
Monitor and record environmental impacts on the local environment	17.13 Monitor wind speed and direction at the Project Site weather station.	Continuous.



Table 5.1 (Cont'd)
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Desired Outcome	Action	Timing
17. Environmental Monitoring (Cont'd)		
Air Quality (Cont'd)		
Monitor and record environmental impacts on the local environment	17.14 Monitor deposited dust deposition at selected residences and strategic locations surrounding the Project Site. The most suitable locations for dust deposition monitoring are considered to be the following: - Between the Project Site and the "Costa Vale" residence. - Between the Project Site and the "Surrey" residence. - Beyond the eastern boundary of the Project Site. - Beyond the western boundary of the Project Site.	Monthly.
	17.15 Prepare an air quality monitoring program.	
18. Environmental Documentation		
A systematic set of documents are in place to guide the planning and implementation of all environmental management strategies.	18.1 Incorporate the environmental procedures in an on-site management system.	Prior to relevant activity.
	18.2 Update the Mining Operations Plan for the mine site.	As required.
	18.3 Incorporate relevant environmental data / information in Annual Environmental Management Reports.	Annually.
	18.4 Prepare the following environmental plans for the Project. - Air Quality Monitoring Program. - Noise Monitoring Program. - Blast Monitoring Program. - Cultural Heritage Management Plan. - Flora and Fauna Management Plan. - Site Water Management Plan. - Groundwater Contingency Plan. - Rehabilitation and Landscape Management Plan	Variously.



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