Appendix XXXXX

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Project Approval

Section 75J of the Environmental Planning and Assessment Act 1979

As delegate of the Minister for Planning and Infrastructure, under delegation executed on 14 September 2011, the NSW Planning Assessment Commission approves the project application referred to in Schedule A, subject to conditions in Schedule B.

These conditions are required to:

- prevent, minimise, and/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 project.

Member of the Commission	Member of the Commission Member of the Commission	
Sydney	DATE	
	SCHEDULE A	
Application No:	10_0215	
Proponent: Draft Approval Authority:	Port Waratah Coal Services Limited Minister for Planning and Infrastructure	
Land:	Lot 63 DP 1184943, Lot 1 DP 590032, Lot 13 DP 1097330, Lot 1 DP 775771, Lot 1,2,3&8 DP 775774, Lot 1 DP 608317, Lot 23 DP 1155723; Lot 1 DP 775775, Lot 11 DP 841542, Lot 1 DP 869622, Lot 121 DP 874949, Lot 18 DP 1119752, Lot 1 DP 1097327, Lot 16 DP 262783, Lot 1001 DP 1178025, Lot 1, 9, 10&11 DP 1119752, Lot 7&8 DP 1119752 (part), Lot 29&33 DP 1184229. Offset locations: Lot 1002 DP1127780 (Tomago Offset Site); Lot 1 DP 1168335 (Ellalong Lagoon); Lot 19 DP 1073776, Lot 1 DP 1045857, Lot 2 DP 725979, Lot 4 DP 738643, Lot 1 DP 725982, Lot 2 DP 725980, Lot 1& DP 514111.	
Project:	 Construction and operation of a coal export terminal with capacity of up to 70 million tonnes per annum (calculated for each calendar year), including: contamination management and remediation works; site preparation ground treatment including pre-loading for foundation with sand dredged from the Hunter River South Arm; rail and coal receival infrastructure comprising of up to four arrival tracks; two dump stations and up to four departure sidings; up to four coal stockpile pads and associated machinery for stacking and reclaiming; 	

- wharf and berth infrastructure for up to two shiploaders and berthing for up to three ships;
- coal conveyors, feeders and transfer stations;
- associated infrastructure including roads, electricity supply, dust suppression, firefighting systems, fences, amenities, landscaping, car parks and water management infrastructure;
- biodiversity sites at Ellalong Lagoon, Brundee Swamp and the Tomago.

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DEFINITIONS	
Act, the	Environmental Planning and Assessment Act, 1979.
Agency, the	Planning & Infrastructure, an Executive Agency of the Department of Premier and Cabinet, formerly known as the Department of Planning and Infrastructure.
Ancillary Facility	Temporary facility for construction, including for example an office and amenities compound, construction compound, batch plant (concrete or bitumen), materials storage compound, maintenance workshop, testing laboratory or material stockpile area.
Brundee Swamp Biodiversity Site	Land within the Sydney Basin Bioregion, approximately 250 kilometres south of the project. Land includes some 204 hectares adjoining the Brundee Swamp Nature Reserve, near Nowra in the Shoalhaven LGA.
BCA, the	Building Code of Australia.
Conditions of Approval	The Minister's conditions of approval for the Project.
Construction	Includes all work in respect of the Project other than:
	 a) survey, acquisitions, building/ road dilapidation surveys; b) investigative drilling, excavation, or salvage; c) minor clearing or translocation of native vegetation; d) establishing ancillary facilities/ construction work sites (in locations meeting the criteria identified in the Conditions of Approval); e) installation of environmental impact mitigation measures, fencing, enabling works; f) other activities determined by the Environmental Representative to have minimal environmental impact (e.g. minor access roads, minor adjustments to services/ utilities, etc).
	Note - work where heritage, threatened species, populations or endangered ecological communities would be affected by that work is classified as construction, unless otherwise approved by the Director-General in consultation with the Office of Environment and Heritage.
Director-General, the	Director-General of Planning and Infrastructure.
Director-General's approval, agreement or satisfaction	A written approval from the Director-General (or nominee).
Draf	Where the Director-General's approval, agreement or satisfaction is required under a condition of this approval, the Director-General will endeavour to provide a response within one month of receiving an approval, agreement or satisfaction request. The Director-General may ask for additional information if the approval, agreement or satisfaction request is considered incomplete. When further information is requested, the time taken for the Proponent to respond in writing will be added to the one month period.
	Department of Primary Industries, includes the divisions of NSW Office of Water (NOW), Fisheries NSW, Agriculture NSW and Crown Lands.
EA	Environmental Assessment
EEC	Endangered ecological communities
Ellalong Lagoon Biodiversity SIte	Land located 40 kilometres west of the Proposal, which comprises 409 hectares including 35 hectares of Freshwater Wetland EEC approximately 135 hectares of known Australasian bittern habitat.
Enabling Works	Works which allow isolation of the Site so that access for construction can be provided.
EPA	Environment Protection Authority
EPL	Environment Protection Licence under the Protection of the Environment Operations Act 1997
Feasible and Reasonable	Consideration of best practice taking into account the benefit of proposed measures and their technological and associated operational application in the NSW and Australian context. Feasible relates to engineering considerations and what is practical to build. Reasonable relates to the application of judgement in arriving at a decision, taking into account mitigation benefits and cost of mitigation versus benefits provided, community views and nature and extent of potential improvements.
	Where requested by the Director-General, the Proponent shall provide evidence as to how feasible and reasonable measures were considered and taken into account.
Heritage	Encompasses both Aboriginal and historic heritage including sites that predate European settlement, and a shared history since European settlement such as shared associations in pastoral landscapes as well as associations linked with the mission period.
Heritage Item	An item as defined under the <i>Heritage Act</i> 1977, 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</i> 1974
Life of the impact	Includes impacts from the construction, operation and decommissioning stages
Minister, the	Minister for Planning and Infrastructure.
Mtpa	Million tonnes per annum.
OEH	Office of Environment and Heritage.
Operation	Means the operation of the Project, but does not include commissioning trials of equipment or temporary use of parts of the Project during construction.
POEO Act	Protection of the Environment Operations Act 1997
Project	Means the Project approved under this approval and as generally described in Schedule A.
Proponent	Port Waratah Coal Services Limited

Publicly availableAvailable for inspection by a member of the general public (for example available on an internet
website).Relevant council(s)Newcastle City Council, Port Stephens Council and Shoalhaven City Council where relevant.Roads authorityFor example, Roads and Maritime or Council as relevant.Sensitive receiverResidential premises, schools, hospitals, places of worship, parks and wilderness areas.SiteThe land on Kooragang Island on which the fourth coal terminal, the subject of this approval, is
situated.Tomago Biodiversity SiteLand approximately 2 kilometres north of the project, known as Lot 1002 DP1127780.

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SCHEDULE B CONDITIONS OF APPROVAL

PART A ADMINISTRATIVE CONDITIONS

Obligation to Minimise Harm to the Environment

A1. In addition to meeting the specific performance criteria established under this approval, the Proponent shall implement all feasible and reasonable measures to prevent and/or minimise any harm to the environment that may result from the construction or operation of the Project.

Terms of Approval

- A2. The Proponent shall carry out the Project generally in accordance with the:
 - (a) Major Project Application MP10_0215;
 - (b) T4 Project Environmental Assessment (EMM EMGA, February 2012);
 - (c) T4 Project Response to Submissions and Preferred Project Report (EMM EMGA, September 2013); and
 - (d) T4 Project Response to Submissions on Preferred Project (EMM EMGA, January 2014); and
 - (e) conditions of this approval.
- A3. If there is any inconsistency between the plans and documentation referred to in condition A2, the most recent document shall prevail to the extent of the inconsistency. However, conditions of this approval prevail to the extent of any inconsistency with any plan or documents referred to in condition A2 or prepared as a result of this approval except where this approval explicitly allows it.
- A4. The Proponent shall comply with any reasonable requirement(s) of the Director-General arising from the Agency's assessment of:
 - (a) any reports, plans or correspondence that are submitted in accordance with this approval; and
 - (b) the implementation of any actions or measures contained within these documents.

Limits of Approval

A5. This approval shall lapse five (5) years after the date on which it is granted unless the works the subject of this Project approval are physically commenced on or before that date.

Staging

- A6. Works to create the Tomago Offset Site must be completed prior to the commencement of construction. The Tomago Offset Site is considered to be completed for the purposes of this condition when suitable habitat has been available for at least one migratory shorebird breeding period (October to March) and provides alternate habitat for migratory shorebirds that could be impacted by construction of the Project.
- A7. The upgrade to the existing Cormorant Road and Pacific National Road T-intersection and the Cormorant and NCIG Wharf Access Road T-intersection to a four leg traffic signal controlled intersection is to be completed prior to construction works commencing on the site;
- A8. The Proponent may elect to construct and/ or operate the Project in stages. Where staging is proposed, the Proponent shall submit a Staging Report to the Director-General prior to the commencement of the first proposed stage. The Staging Report shall provide details of:
 - (a) how the Project would be staged, including general details of work activities associated with each stage and the general timing of when each stage would commence; and

(b) details of the relevant conditions of approval, which would apply to each stage and how these shall be complied with across and between the stages of the Project.

Where staging of the Project is proposed, these conditions of approval are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s).

The Proponent shall ensure that an updated Staging Report (or advice that no changes to staging are proposed) is submitted to the Director-General prior to the commencement of each subsequent stage, identifying any changes to the proposed staging or applicable conditions. The Proponent shall ensure that all plans, sub-plans and other management documents required by the conditions of this approval and relevant to each stage (as identified in the Staging Report) are submitted to the Director-General no later than one month prior to the commencement of the relevant stages, unless otherwise agreed by the Director-General.

Staged Submission of Plans or Programs

- A9. With the approval of the Director-General, the Proponent may:
 - (a) submit any strategy, plan or program required by this approval on a progressive basis; and/or
 - (b) combine any strategy, plan or program required by this approval.
- A10. Any strategy, plan or program approved for the operation of the project must continue to be implemented:
 - (a) until replaced by an equivalent strategy, plan or program approved in accordance with this approval; or
 - (b) until the agreed and specified timeframe for its implementation has lapsed; or
 - (c) upon confirmation from the Director-General that implementation of any strategy, plan or program is no longer required.

Statutory Requirements

A11. The Proponent shall ensure that all licences, permits and approvals are obtained and maintained as required throughout the life of the project. No condition of this approval removes the obligation for the Proponent to obtain, renew or comply with such licences, permits or approvals. The Proponent shall ensure that a copy of this approval and all relevant environmental approvals are available on the Site at all times during the project.

Operation of Plant and Equipment

A12. The maximum export capacity of the Project shall be limited to a coal throughput of 70 million tonnes of coal per annum, calculated for each calendar year.

Compliance

A13. In the event of a dispute between the Proponent and a public authority, in relation to an applicable requirement in this approval or relevant matter relating to the activity, either party may refer the matter to the Director-General for resolution. The Director-General's determination of any such dispute shall be final and binding on the parties.

PART B ENVIRONMENTAL PERFORMANCE AND MONITORING

AIR QUALITY

Odour

B1. The Proponent shall not permit any offensive odour, as defined under section 129 of the *Protection of the Environment Operations Act 1997*, to be emitted beyond the boundary of the Site.

Dust Management

- B2. The project shall be designed, constructed and operated to minimise dust emissions to the greatest extent practicable, including fugitive dust emissions from plant, equipment and traffic from the Site and the Tomago Offset Site.
- B3. As soon as practicable after the placement of fill/ preloading material on the Site, the Proponent shall cover, seal, grass or otherwise treat the Site to minimise the potential for wind-blown dust from the fill/ preload material. The Proponent shall maintain the cover, seal, grass or other treatment for the duration of Site preparation and preloading activities, and following the addition of further fill/ preload materials that may occur from time to time during that period.
- B4. The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that the particulate emissions generated by the Project do not exceed the criteria listed in **Table 1**, **Table 2** and **Table 3** at any residence on privately-owned land or criteria as amended by an Environmental Protection Licence.

Pollutant	Averaging period	Criterion ^d
Total suspended particulate (TSP) matter	Annual	90 μg/m ^{3 a}
Particulate matter <10 um (PM ₁₀)	Annual	30 µg/m ^{3 a}

Table 1: Long term criteria for particulate matter

Table 2. Short term criterion for particulate matter

Pollutant	Averaging period	Criterion ^d
Particulate matter <10 um (PM ₁₀)	24 hour	50 μg/m ^{3 a}

Table 3. Long term criteria for deposited dust

Pollutant	Averaging Period	Maximum increase in deposited dust level	Maximum total deposited dust level
Deposited dust ^c	Annual	2 g/m ² /month ^b	4 g/m ² /month ^a

Notes for tables 1-3:

^a Total impact (ie. incremental increase in concentrations due to the development plus background concentrations due to other sources);

^b incremental impact (ie incremental increase in concentrations due to the development on its own);

^C Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air – Determination of Particulate Matter – Deposited Matter – Gravimetric Method; and

^d excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed to by the Director-General in consultation with EPA.

Air Quality Monitoring

- B5. Prior to the commencement of operation of the project, the Proponent shall develop and submit for the approval of the Director-General and the EPA, an **Air Quality Monitoring Program**, to specify how ambient air quality impacts of the project will be monitored*. The Program shall include, but not necessarily be limited to:
 - (a) a monitoring design to identify real time changes to air quality attributable to the Project;
 - (b) locations, equipment, frequencies and methods for monitoring total suspended particles, PM₁₀ and deposited particulate matter in accordance with the requirements of this approval and any Environmental Protection Licence issued by the EPA for the Project;

* Note: This condition does not preclude the Proponent from reaching agreement with any other relevant party for the installation, operation and maintenance of a shared monitoring station or monitoring network, or shared use of an existing monitoring station or monitoring network provided the outcomes of this condition are achieved.

B6. Results from the Dust Monitoring Program in condition B5, and implemented during operation, are to inform the environmental management decisions associated with the project in accordance with the Air Quality Sub Plan in condition D8(a).

Meteorological Monitoring

- B7. During the life of the Project, the Proponent shall ensure that there is a suitable meteorological station operating in the vicinity of the site that:
 - (a) Complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and
 - (b) Is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Industrial Noise Policy.
- B8. Data obtained from the operation of the meteorological station in B7 is to inform the environmental management decisions associated with the project in accordance with the Air Quality Sub Plan in condition D8(a).

Greenhouse Gas

- B9. The Proponent shall prepare and implement an Energy Efficiency Plan to the satisfaction of the Director-General. The plan must:
 - (a) be submitted to the Director-General for approval prior to the commencement of operations;
 - (b) describe the feasible and reasonable measures that would be implemented to minimise energy use and greenhouse gas emissions attributable to the project;
 - (c) explore the possibility of using renewable energy use to generate power; and
 - (d) include a program to monitor the effectiveness of these measures; and
 - (e) include a protocol to periodically review the plan.

NOISE

B10. The Project shall be constructed with the aim of achieving the construction noise management levels detailed in the *Interim Construction Noise Guideline* (Department of Environment and Climate Change, 2009). All feasible and reasonable noise mitigation measures shall be implemented and any activities that could exceed the construction noise management levels shall be identified and managed in accordance with the CEMP.

Note: The Interim Construction Noise Guideline identifies 'particularly annoying' activities that require the addition of 5dB(A) to the predicted level before comparing to the construction NML.

Construction Hours

- B11. High noise generating activities resulting in impulsive or tonal noise emission (such as rock breaking, rock hammering, pile driving) shall only be undertaken:
 - (a) between the hours of 8:00 am to 5:00 pm Monday to Friday;
 - (b) between the hours of 8:00 am to 1:00 pm Saturday; and
 - (c) in continuous blocks not exceeding three hours each with a minimum respite from those activities and works of not less than one hour between each block.

For the purposes of this condition 'continuous' includes any period during which there is less than a one hour respite between ceasing and recommencing any of the work the subject of this condition.

- B12. Wherever feasible and reasonable, piling activities shall be undertaken using quieter methods than impact or percussion piling, such as bored piles or vibrated piles.
- B13. The Project shall be constructed with the aim of achieving the following construction vibration goals:
 - (a) for structural damage to heritage structures, the vibration limits set out in the *German Standard DIN 4150-3: Structural Vibration effects of vibration on structures*;
 - (b) for damage to other buildings and/or structures, the vibration limits set out in the British Standard BS 7385-1:1990 – Evaluation and measurement for vibration in buildings. Guide for measurement of vibration and evaluation of their effects on buildings; and
 - (c) for human exposure, the acceptable vibration values set out in the *Environmental Noise Management Assessing Vibration: A Technical Guideline* (Department of Environment and Conservation, 2006).

Operation Noise

B14. The Proponent shall minimise noise emissions from plant and equipment operated on the Site according to the principles outlined in the NSW Government's *Industrial Noise Policy*.

The Proponent shall ensure that the noise generated by the Project does not exceed the criteria in **Table 4** at any residence on privately-owned land.

Location	At all times	Night only 10:00pm to 7:00am
	LAeq(15 minute)	LA1(1 minute)
Fern Bay	50	55
Stockton	50	57
Mayfield	44	58

Table 4 – Maximum Allowable Noise Contribution (dB(A))

Noise generated by the Project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.

Appendix 5 sets out the meteorological conditions under which these criteria apply, and the requirements for evaluating compliance with these criteria. However, these criteria do not apply if the Proponent has an agreement with the relevant landowner to exceed the noise criteria, and the Proponent has advised the Department in writing of the terms of this agreement.

Ports Precinct Noise Management

B15. The Proponent shall commit to the Site being included in any noise map that may be developed for the whole Newcastle Port precinct in the future the purpose of which is to assist in optimising use of the greater port precinct by development of precinct noise criteria.

B16. Notwithstanding condition B15, the noise limits identified in this consent will continue to apply except where the development is subject to a pollution reduction program as part of any Environment Protection Licence issued in accordance with the *Protection of the Environment Operations Act 1997.*

Train Noise Performance

B17. The Proponent shall take necessary action to ensure that trains operated on the Site meet the noise performance criteria established under condition B14.

BIODIVERSITY

Biodiversity

- B18. The Proponent shall employ a qualified ecologist, approved by the Director-General, for the duration of construction of the Project, to advise on the mitigation and management of impacts to listed threatened species that may be affected by the relevant works. This role will include, but will not be limited to, overseeing and administering works as required within the Construction Flora and Fauna Management Plan required under condition C1.
- B19. Prior to the commencement of construction at the Site, the Proponent shall prepare and implement an **Onsite Green and Golden Bell Frog Management Plan** for the constructed habitat on Kooragang Island. The Plan shall be developed in consultation with OEH and the Commonwealth Department of the Environment and include detail of the known functioning habitat on the Site, works to be undertaken and timing of works to ensure that known functioning habitat is maintained on the Site at all times. This Plan shall be prepared in consultation with the OEH and Commonwealth Department of the Environment and submitted to the Director-General for approval. During operations, this would form part of the Operational Flora and Fauna Management Plan for the Site (See Condition D8(c)).
- B20. Where practicable, works affecting Deep Pond and Swan Pond shall be scheduled in cooler months, between April and September, to avoid the breeding season of migratory shorebirds.
- B21. The Proponent shall design and construct relevant rail infrastructure associated with the project to include culverts, underpasses or other similar measures to encourage the movement of *Litoria aurea* and other species under the rail embankment, and shall have consideration of existing and proposed frog habitat areas, movement corridors and protection from predators. The design shall be prepared in consultation with the Commonwealth Department of the Environment, OEH and NCIG.
- B22. All employees and contractors involved in construction or operation of components of the project in areas known or suspected of providing habitat for *Litoria aurea* and other amphibian species shall be trained in site hygiene management in accordance with the *Hygiene Protocol for the Control of Disease in Frogs* (NPWS, 2001) as part of site induction training.

Compensatory Habitat and Ecological Monitoring Program

- B23. The Proponent shall develop and submit for the approval of the Director-General, a Compensatory Habitat and Ecological Monitoring Program to detail how habitat and ecological values lost as a result of the project will be off-set and detail of monitoring that will be undertaken to inform on-going ecological management. The Program shall be developed in consultation with the Commonwealth Department of the Environment (DotE), OEH, EPA, Catchment Management Authority (Hunter-Central Rivers), NSW Fisheries and Port Stephens Council and shall include, but not necessarily be limited to:
 - (a) detailed design of the Tomago Offset Site, including detailed descriptions of how the offset will be operated over time;
 - (b) details of any works at the Ellalong and Brundee sites and their purpose;

- (c) provision for establishment of compensatory habitat for each of the significantly impacted ecological values of the project (green and golden bell frog (*Litoria aurea*), Australasian bittern (*Botaurus poiciloptilus*) and migratory shorebirds):
 - (i) for *Litoria aurea* habitat lost, securing, consolidating and managing the lands described as the 'Brundee Swamp' in the RtS/PPR, in consultation with the Agency, OEH and the Commonwealth Department of the Environment;
 - (ii) for *Litoria aurea* habitat lost, establishment of 12 hectares of compensatory habitat across Kooragang Island, in consultation with the OEH and the Commonwealth Department of the Environment. The compensatory habitat shall include a mosaic of wetland, terrestrial and breeding habitat, which includes foraging, sheltering, and wintering habitat attributes and movement corridors, in order to maximise the potential reproductive output of the *Litoria aurea* population. A minimum of 4.7 hectares of this 12 hectares shall comprise wetland habitat also suitable for *Botaurus poiciloptilus;*
 - (iii) for *Botaurus poiciloptilus* habitat lost, securing and consolidating the lands described as the 'Ellalong Lagoon' in the EA (Ellalong Lagoon Biodiversity Site), in consultation with the, OEH and the Commonwealth Department of the Environment;
 - (iv) for migratory shore bird habitat (including endangered ecological communities) lost, the establishment of the Tomago Offset Site, as specified in Condition A6;
- (d) provision for the funding of works required under this condition, to be managed by a board, trust or other mechanism that provides sound and legally enforceable means of allocating resources for ongoing adaptive management and review of the performance of compensatory habitat works until criteria have been achieved over three continuous monitoring periods;
- (e) provision of funding for research into the population dynamics of *Litoria aurea* in and around Kooragang Island and for a captive breeding program;
- (f) establishment of a committee with NCIG, OEH and the Commonwealth Department of the Environment to develop an Integrated Kooragang Island Green and Golden Bell Frog Management Strategy to detail and integrate the collective management measures and strategies to maintain the viability of the population on Kooragang Island.
- (g) consideration of coordinating compensatory and ameliorative works with similar requirements for other developments, including with respect to the development the subject of development consent DA-134-3-2003-i (dredging and remediation of the South Arm of the Hunter River) and NCIG CET Rail Flyover Modification (MP06_0009 MOD 2)*;
- (h) monitoring requirements for compensatory habitat works and other ecological amelioration proposed under the Program.

* Note: Nothing in this condition precludes the Proponent from the requirement to provide compensatory habitat in accordance with this approval.

- B24. Financial surety of undertaking works and securing offset sites (Tomago Offset Site, Ellalong Lagoon and Brundee Swamp) will be provided by the Proponent to the Agency in the form of a Conservation Bond. Three (3) months prior to the commencement of construction of the Project, the Proponent shall determine the sum of the Conservation Bond to the satisfaction of the Director-General, in consultation with OEH, based on the following:
 - (a) calculating the full cost of fulfilling its compensatory habitat obligations, in perpetuity, (including any land acquisition costs). These costs need to consider research, establishment of habitat, ongoing monitoring and management of the habitat.

(b) employing a suitably qualified quantity surveyor to verify the calculated costs.

The Conservation Bond is required to be lodged with the Agency prior to the commencement of construction, or as otherwise agreed by the Director-General, to ensure that the biodiversity offsets outlined in condition B23 are implemented in accordance with the performance and timing commitments provided in the Compensatory Habitat and Ecological Monitoring Program. If the offset is completed in accordance with the performance and timing commitments in the Compensatory Habitat and Ecological Monitoring Program to the satisfaction of the Director-General, in consultation with the OEH, the Director-General will release the bond. If the offset is not completed in accordance with the performance and timing commitments in the Compensatory Habitat and Ecological Monitoring Program, the Director-General may, in consultation with OEH, call in all or part of the Conservation Bond, and arrange for the satisfactory completion of the relevant works.

Note: The sum of the Conservation Bond may be reduced subject to the successful performance of the compensatory works. The reduction of the Conservation Bond would be at the agreement of the Director-General, in consultation with the OEH. In relation to Litoria aurea, successful performance works include the identification of a viable breeding population.

- B25. The Proponent shall develop signage at the entry to the Hunter Wetlands National Park and within any onsite office building to inform the general public of the ongoing work regarding conservation of the green and golden bell frog (to raise awareness amongst the community).
- B26. In the event that the project is modified such that it results in impacts to biodiversity different to those assessed in the documents referred to in condition A2, the Proponent is required to submit for the approval of the Director-General, a revised Compensatory Habitat and Ecological Monitoring Program (and any other ecological plans) at least two months prior to the additional impact occurring.

TRAFFIC AND TRANSPORT

Road Dilapidation

B27. Upon determining the haulage and site access route(s) for construction vehicles associated with the Project, and prior to construction, an independent and qualified person or team shall undertake a Road Dilapidation Report of the relevant roads. The report shall assess the current condition of the road and submitted to the relevant road authority for review and comment prior to the commencement of haulage.

Following completion of construction, a subsequent report shall be prepared to identify any damage that may have resulted from the construction of the Project and describe measures to restore any damage caused by construction of the Project. The Report shall be submitted to the relevant road authority for review and comment.

Measures proposed to restore or reinstate roads affected by the Project shall be implemented in a timely manner, in accordance with the reasonable requirements of the relevant road authority, and at the full expense of the Proponent.

General Road Infrastructure and Traffic Management

- B28. The Proponent shall design, install and maintain physical traffic control devices and signs for all prohibited traffic movements during construction and operation of the project, as relevant. The Proponent shall submit design details of the traffic control devices and signs to the RMS and Council for approval prior to their installation. Traffic control devices and signs shall be installed prior to the commencement of construction or operation, as relevant, and at the expense of the Proponent.
- B29. All heavy vehicle access to and from the site shall be limited to the Cormorant Road and Pacific National Access Road intersection, as far as practicable. Alternative access

requirements for heavy vehicles shall be detailed in the Traffic and Access Management Plan required in condition C2(g).

- B30. The project shall be designed, constructed, maintained and operated:
 - (a) so as not to preclude the future duplication of Tourle Street Bridge and Cormorant Road to accommodate four lanes of traffic.
 - (b) to ensure that stormwater drainage conditions and structures allow Cormorant Road /Tourle Street to remain trafficable during a 1 in 100 year storm event; and
 - (c) ensure that any property requirements including acquisition and/or road reserve dedication shall be in accordance with the requirements of the RMS and Council and at the full expense of the Proponent.

The Proponent shall consult with the RMS during detailed design of the project to ensure that the requirements of this condition are reflected in the final design of the project.

Structural Assessment of Tourle Street Bridge

- B31. During detailed design, the Proponent shall commission a suitably qualified person, whose appointment has been agreed to by the Director-General in consultation with RMS, to conduct an independent assessment of the potential for the Tourle Street Bridge to be structurally impacted by a coal carrier ship (directly or by energy transfer through the river bed). The assessment is to:
 - (a) validate design assumptions and friction parameters to determine the sensitivity on stopping distances; and
 - (b) quantify the forces transmitted into the river bed stratum using numerical modelling on the revetment.

The Proponent is required to implement any recommended additional mitigation measures to protect the structural integrity of the Tourle Street Bridge resulting from the independent assessment, unless otherwise agreed by the Director-General.

Road Works – Cormorant Road

- B32. The Proponent shall submit for the approval of the RMS, detailed designs for the road works referred to in this condition, prior to the commencement of construction of those works, and prior to the commencement of construction of the relevant components of the project. These shall include:
 - (a) the Cormorant Road/Pacific National Access Road intersection. The intersection design and configuration shall be based on current traffic counts and a revised traffic impact assessment report prepared in consultation with RMS.
 - (b) The Proponent shall ensure that the conveyor bridge over Cormorant Road is designed and constructed to include a minimum 6.5 metre vertical height clearance from the top of Cormorant Road pavement to the underside of the bridge structure. The Proponent shall enter into an agreement with RMS for the ongoing maintenance and demolition of the bridge structure.

Rail Infrastructure and Management

B33. The Proponent shall consult with ARTC, and meet the reasonable requirements of ARTC with respect to the design of the project, for those components of the project that may affect the design, connection and operation of existing and proposed ARTC rail infrastructure assets.

UTILITIES AND SERVICES

B34. The Proponent shall identify, prior to construction, utilities, services and other infrastructure potentially affected by construction and operation to determine requirements

and make arrangements for access to, diversion, protection, and/or support. Owners and/or providers of services that are likely to be affected by the Project shall be consulted. The cost of any such arrangements shall be borne by the Proponent.

SOIL AND WATER QUALITY

- B35. Unless otherwise agreed by the Director-General, the Proponent shall design, construct, maintain and operate surface water and stormwater management infrastructure on the Site to accommodate a 100 year ARI rainfall event, and shall not permit the discharge of any water from the Site to the Hunter River unless expressly provided for in an Environment Protection Licence.
- B36. The works required to connect Mosquito Creek and Mosquito Creek tributary shall be designed in consultation with NSW Fisheries (DPI) and OEH.
- B37. The Proponent shall re-model the stormwater flows at the Tomago Offset Site following the detailed design of the offset to confirm impacts to the surrounding catchment. This shall be undertaken in consultation with adjacent landholders including the Northbank Enterprise Hub, OEH, Port Stephens Council and Newcastle City Council.
- B38. The Proponent shall take all reasonable measures to prevent soil erosion and the discharge of sediments and pollutants from the Site during construction of the project.
- B39. The Proponent shall install stormwater drains, stormwater ponds, settlement ponds and/or storage ponds and other erosion, sediment and pollution controls as may be appropriate to manage stormwater on the site of the proposed coal terminal. The Proponent shall maintain all erosion, sediment and pollution control infrastructure at or above design capacity for the duration of the project and until such time as all ground disturbed has been stabilised and rehabilitated so that it is no longer a potential source of sediment.
- B40. Soil and water management measures consistent with *Managing Urban Stormwater* Soils and Construction Vols 1 (Landcom, 2004) and *Managing Urban Stormwater* Soils and Construction, Vol 2A: Installation of Services (Department of Environment and Climate Change, 2008) shall be employed during construction to minimise soil erosion and the discharge of sediment and other pollutants to land and/or waters.

Operation Soil and Water Management

- B41. All stormwater and surface water management infrastructure on the Site intended to manage actual or potentially contaminated or saline water shall be lined with a low-permeability material to minimise potential leakage. Collected stormwater shall be reused on Site for beneficial purposes such as the wetting of coal to reduce dust emissions from the Site.
- B42. In the event that stormwater runoff collection cannot meet the water demand of the Site, treated wastewater, if available from the relevant water authority, shall be used preferentially over potable water for the purposes of dust control, unless otherwise agreed by the Director-General.
- B43. All machinery wash down waters and amenities wastewater shall be directed to sewer (subject to Hunter Water Corporation approval), or to an appropriately licensed liquid waste disposal facility.
- B44. The Proponent shall design, install, maintain and operate rainwater tanks for the collection of water for domestic and potable uses on the Site. Collected rainwater shall be used preferentially to external potable water supplies.

Fill/ Preload Material Specifications

B45. Materials classified as Excavated Natural Material, general solid waste or those referred to under condition B46, shall be used as fill/ preload material for the project.

- B46. Unless otherwise agreed by the Director-General, the Proponent shall only source clean materials for use in fill/preloading activities from the development the subject of development consent DA-134-3-2003-i (dredging and remediation of the South Arm of the Hunter River). Where the Proponent seeks the agreement of the Director-General to use fill/preload materials from a different source, the Director-General may require submission of additional information to demonstrate how the impacts from heavy vehicle movements will be adequately and appropriately mitigated and managed.
- B47. Unless otherwise agreed by the Director-General, fill/preload material sourced from development the subject of development consent DA-134-3-2003-i shall be transported and managed consistently with an approved Dredged Material Transport Strategy required by that development consent (condition B2.29 of that consent).

CONTAMINATED LAND MANAGEMENT

B48. The Proponent shall engage an appropriately qualified person to audit the remediation, capping and construction phases of the former landfill sites (KIWEF, Delta EMD and FDF) against the commitments contained in the documents referred to in condition A2.

The auditor shall provide the Director-General and the EPA with quarterly reports on the disturbance and recapping of the waste emplacement area during construction. In the event of any deviation from the commitments made in the abovementioned documents, prior approval should be sought from the EPA, and any deviation from the commitments shall be described in detail and reasons for the change provided and fully justified.

- B49. The Proponent shall ensure that any contaminated materials removed from the Site be directed to a waste management facility lawfully permitted to accept the materials.
- B50. To avoid any doubt, nothing in this approval relieves the need to comply with the requirements of:
 - (a) the *Approval of the Surrender of Licence No. 6437* as varied as it relates to the Kooragang Island Waste Emplacement Facility (KIWEF);
 - (b) the *Environment Protection Licence No. 50*22 as it relates to the Fines Disposal Facility (FDF); and
 - (c) the Environment Protection Licence No. 7675 as it relates to the Delta EMD facility.

Groundwater Monitoring and Management

- B51. Prior to the commencement of construction, the Proponent must develop a long-term groundwater monitoring program*
 - (a) to confirm predictions in the documents referred to in condition A2 and identify changes in groundwater quality from pre-construction groundwater conditions.
 - (b) The groundwater monitoring program is to include an action plan to be implemented should groundwater quality trigger values be exceeded during the course of the monitoring program. The Proponent shall rectify any adverse impact on groundwater that may be detected and attributable to the project. Groundwater monitoring must commence at least one month prior to the commencement of construction.

* Note: This condition does not preclude the Proponent from reaching agreement with any other relevant party for the installation, operation and maintenance of a shared groundwater monitoring bores, or shared use of an existing monitoring bores representative of the Site, provided the outcomes of this condition are achieved.

Waste Generation and Management

B52. Waste shall be managed in accordance with the Waste Avoidance and Resource Recovery Act 2001.

- B53. All wastes generated on the site by construction or operation of the project shall be assessed and classified in accordance with *Waste Classification Guidelines* (Department of Environment, Climate Change and Water, 2009), or any superseding document.
- B54. All waste materials removed from the Site shall only be directed to a waste management facility or premises lawfully permitted to accept the materials.
- B55. Except as expressly permitted in an appropriate licence, waste shall not be received at the Site for storage, treatment, processing or reprocessing or disposal.

HAZARDS AND RISKS

- B56. Dangerous goods, as defined by the *Australian Dangerous Goods Code*, or any other hazardous substances, shall be stored and handled strictly in accordance with:
 - (a) all relevant Australian Standards;
 - (b) for liquids, a minimum bund volume requirement of 110 per cent of the volume of the largest single stored volume within the bund;
 - (c) the Storing and Handling Liquids: Environmental Protection, Participants (Department of Environment and Climate Change, 2007); and
 - (d) the Environment Protection Manual for Authorised Officers: Bunding and Spill Management, technical bulletin (Environment Protection Authority, 1997).

In the event of an inconsistency between the requirements listed from B56(a) to B56(d) above, the most stringent requirement shall prevail to the extent of the inconsistency.

VISUAL AMENITY IMPACTS

- B57. Within six months of the commencement of construction of the project, or as otherwise agreed by the Director-General, the Proponent shall install the bund along the southern side of the stockpile yard (northern side of Cormorant Road). The bund shall be planted with local native vegetation species prior to the commencement of operation of the project, and shall aim to screen visual receptors to the south from the project, to the greatest extent practicable.
- B58. The Proponent shall ensure that all external lighting installed as part of the project is mounted, screened, and directed in such a manner so as not to create a nuisance to surrounding land uses. The lighting shall be the minimum level of illumination necessary, and be in general accordance with the latest version of *AS* 4282 1997 Control of the Obtrusive Effects of Outdoor Lighting.
- B59. Advertising and project identification signs shall not be installed along the Cormorant Road frontage of the Site.

COORDINATION OF ENVIRONMENTAL MONITORING AND MANAGEMENT

Coordinated Environmental Monitoring and Management Protocol

B60. Prior to the commencement of operation, or within such period as otherwise agreed by the Director-General, the Proponent shall update the **Coordinated Environmental Monitoring and Management Protocol** to provide a framework for the coordinated and cooperative monitoring and management of environmental impacts from the developments Kooragang Coal Terminal, Newcastle Coal Infrastructure Group Coal Export Terminal and this Project.

The Protocol shall include, but not necessarily be limited to:

- (a) procedures for access to, and provision of, monitoring data from each development, particularly in relation to dust and noise emissions;
- (b) the respective remediation and redevelopment works;
- (c) arrangements for coordinated and cooperative monitoring of ambient environmental impacts, including agreements relating to sharing of monitoring networks/

infrastructure, coordinated interpretation of monitoring results and coordination dissemination of monitoring results to relevant parties;

- (d) measures to ensure a coordinated and cooperative approach to the management of common or cumulative environmental impacts from the developments;
- (e) arrangements for communication between the parties, including designated contact persons and contact details;
- (f) notification procedures in the event of an incident at either development that may impact on the other development, or generate a significant common or cumulative impact;
- (g) any agreement for participation in the development of any of the management plans or monitoring programs required under this approval;
- (h) mechanism for review of the Protocol from time to time; and
- (i) such other matters as parties may agree.

The Applicant shall provide a copy of the Protocol to the Director-General and the EPA and OEH as soon as practicable after agreement on the terms of the Protocol.

Coordination of Cumulative Dust Studies

- B61. The Proponent shall participate in any cumulative dust study that may be commissioned by the EPA, unless otherwise agreed to by the Director-General. The extent of the Proponent's involvement in such a study shall be agreed with and to the satisfaction of the Director-General, and shall include, but not necessarily be limited to:
 - a) provision of monitoring data associated with the environmental performance of the project;
 - b) provision of management and auditing documentation associated with the project and relevant to the study;
 - c) access to the project and relevant technical and environmental experts associated with the project;
 - d) arrangements for any financial contributions to cover the reasonable expenses associated with the study; and
 - e) such other matters as the Proponent and the Director-General may agree.

Coordination of Flood Studies

B62. The Proponent shall consult with the Northbank Enterprise Hub regarding management of stormwater flows from the Northbank Enterprise Hub site to the Tomago offset site to minimise impacts upon the Tomago Offset Site where possible.

PART C ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

- C1. The Proponent shall prepare and implement a Construction Environmental Management Plan for the Project in accordance with the *Guideline for the Preparation of Environmental Management Plans* (Department of Infrastructure, Planning and Natural Resources 2004). No construction associated with the Project shall commence until written approval of this plan has been received from the Director-General. The Plan must:
 - (a) be submitted to the Director-General for approval no later than one (1) month prior to the commencement of construction or demolition or within such period otherwise agreed by the Director-General;
 - (b) include the following Sub-plans:
 - (i) Air Quality Management Plan;
 - (ii) Contamination and Materials Management Plan;
 - (iii) Acid Sulphate Soil Management Plan;
 - (iv) Soil and Water Management Plan;
 - (v) Flora and Fauna Management Plan;
 - (vi) Heritage Management Plan;
 - (vii) Noise and Vibration Management Plan; and
 - (viii) Traffic and Access Management Plan.

Note: A utility owner who is to undertake works as part of this approved project may use an existing Construction Environmental Management Plan where this plan meets the requirements of this condition.

- C2. The Proponent shall ensure that the following specific requirements are considered in developing the sub-plans or procedures identified in condition C1, but not limited to:
 - (a) **Air Quality Management Plan** is to be developed in consultation with the EPA and Department of Health and is to include:
 - (i) the identification of all potential sources of dust emissions from the construction of the Project; and
 - (ii) all feasible and reasonable mitigation measures to manage dust emissions on site during construction.

(b) Contamination and Materials Management Plan

- (i) is to be developed in consultation with the EPA and where there are potential impacts to *Litoria aurea*, Green and Golden Bell Frog, OEH and DoE;
- (ii) include procedures for the implementation of the Remediation Action Plan and integrated Landfill Closure Plan with the construction of the project; and
- (iii) details of proposed extraction, use and disposal of groundwater, and measures to mitigate potential impacts to groundwater sources, incorporating monitoring, impact trigger definition and response actions for all groundwater sources potentially impacted by the project;
- (iv) procedures for the identification and management of contaminated materials excavated from site during construction including a contingency plan to be implemented in the case of unanticipated discovery of contaminated material during construction.
- (c) Acid Sulphate Soil Management Plan developed in consultation with the EPA and in accordance with the Acid Sulfate Soil Manual (Acid Sulfate Soil Management Advisory Committee, 1998) for areas with the potential to encounter Potential Acid Sulphate Soils or Actual Acid Sulphate Soils.
- (d) **Soil and Water Management Plan** to manage surface and groundwater impacts during construction of the Project. The Plan shall be developed in consultation with OEH and NOW and include, but not necessarily be limited to:

- (i) details of construction activities and their locations, which have the potential to impact on water courses, storage facilities, stormwater flows, and groundwater;
- surface water and ground water impact assessment criteria consistent with Australian and New Zealand Environment Conservation Council (ANZECC) guidelines;
- (iii) management measures to be used to minimise surface and groundwater impacts, including details of how dredge material will be handled, stockpiled, reused and managed; erosion and sediment control measures; salinity control measures and the consideration of flood events;
- (iv) a description of how the effectiveness of these actions and measures would be monitored during the proposed works, clearly indicating how often this monitoring would be undertaken, the locations where monitoring would take place, how the results of the monitoring would be recorded and reported, and, if any exceedance of the criteria is detected how any non-compliance can be rectified; and
- (e) **Flora and Fauna Management Plan** to detail how construction impacts on ecology of the Project will be minimised and managed. The Plan shall be developed in consultation with OEH, the Commonwealth Department of the Environment and relevant Councils and shall include, but not necessarily be limited to:
 - (i) plans for impacted and adjoining areas showing vegetation communities; important flora and fauna habitat areas; locations where threatened species, populations or ecological communities have been recorded; including pre-clearing surveys to confirm the location of threatened flora and fauna species and associated habitat features;
 - (ii) the identification of areas to be cleared and details of management measures (such as fencing, clearing procedures, removal and relocation of fauna during clearing, habitat tree management and construction worker education) to avoid any residual habitat damage or loss and to minimise or eliminate time lags between the removal and subsequent replacement of habitat. Specifically, temporary fencing is to be placed around the construction footprint and no vegetation is permitted to be directly or indirectly affected outside of this boundary;
 - (iii) rehabilitation details, including identification of flora species and sources, and measures for the management and maintenance of any rehabilitated areas;
 - (iv) weed management measures focusing on early identification of invasive weeds and effective management controls;
 - (v) a description of how the effectiveness of these management measures would be monitored; in consultation with OEH; and
 - (vi) a procedure for dealing with unexpected EEC/ threatened species identified during construction, including cessation of work and notification of the OEH, determination of appropriate mitigation measures in consultation with the OEH (including relevant re-location measures) and updating of ecological monitoring and/ or biodiversity offset requirements.
- (f) **Noise and Vibration Management Plan** developed and implemented in accordance with the Interim Construction Noise Guidelines (DECC, 2009e); and
 - (i) identification of feasible and reasonable measures to be implemented to minimise and manage construction noise and vibration impacts, including noise from traffic;
 - (ii) a description of how the effectiveness of these actions and measures would be monitored during the proposed works.
- (g) **Traffic and Access Management Plan** is to be developed in consultation with the RMS and Council and include:
 - (i) all construction traffic control measures to be implemented for the project including internal access roads;

- details of the measures to stagger traffic to avoid the 4 to 5 pm peak period and the Shuttle Bus routes and pick up points;
- (iii) details of the location and design of all onsite / offsite car parking areas; and
- (iv) details of the construction traffic routes and access to and from the site.

ANNUAL REVIEW

- C3. To compare the actual performance of the Project against this approval, annually from date of this approval (or other timing as may be agreed by the Director-General), the Proponent shall prepare a summary of the environmental performance of the Project during construction and operation, for the previous 12 months and cumulatively to date, to the satisfaction of the Director-General. The summary must:
 - (a) describe the activities carried out in the previous year, and those proposed for the following year;
 - (b) include a summary of monitoring results and complaints records of the previous year, including consideration of these results against:
 - (i) the conditions, relevant statutory requirements, limits or performance measures/criteria;
 - (ii) requirements of any plan or program required under this approval;
 - (iii) the monitoring results of previous years; and
 - (iv) the relevant predictions in the documents identified in conditions A2;
 - (c) identify any non-compliance over the previous year and describe the actions taken (or being taken) to ensure compliance;
 - (d) identify any trends in the monitoring data over the life of the development;
 - (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
 - (f) identify measures that could be implemented to improve the environmental performance of the development and justification for any decision to not implement those measures.

Note: it is not intended for this annual review to result in any additional review of plans, programs and strategies, where those plans, programs and strategies also have a review component that addresses this condition.

Revision of Strategies, Plans and Programs

- C4. Within 3 months of the submission of an:
 - (a) annual review under condition C3 above;
 - (b) incident report under condition C6 below;
 - (c) audit report under condition C8 below; or
 - (d) any modification to the conditions of this approval,

the Proponent shall review, and if necessary revise, strategies, plans and programs required by this approval to the satisfaction of the Director-General.

Note: This is to ensure the plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the Project.

REPORTING

Compliance Reports

C5. The Proponent shall prepare a Pre-Construction Compliance Report and a Pre-Operation Compliance Report to report compliance with the requirements of this approval prior to the commencement of construction and operation, as relevant. The Reports shall be submitted to the Director-General for approval at least one month prior to the commencement of construction, or each stage, or operation as relevant.

Incident Reporting

- C6. The Proponent shall notify, at the earliest opportunity, the Environmental Representative, Director-General and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. Within 7 days of the date of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident, which identifies measures which have or will be implemented to rectify the incident; a timeframe for implementation; and such further reports as may be requested.
- C7. The Proponent shall meet the requirements of the Director-General to address the cause or impact of any incident, as it relates to this approval, reported in accordance with condition C6 of this approval, within such period as the Director-General may require.

AUDITING

Independent Environmental Audit

- C8. Within two (2) years of the date of the commencement of construction, and annually thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the Project against the requirements of this approval. This audit must:
 - (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General;
 - (b) include consultation with the relevant agencies;
 - (c) assess the environmental performance of the Project to assess whether it is complying with the requirements in this approval (including any assessment, strategy, plan or program required under this approval or an EPL/s);
 - (d) review the adequacy of any approved strategy, plan or program required under the abovementioned approval to manage impacts of the project; and
 - (e) recommend measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals or licences.

Note: This audit team must be led by a suitably qualified auditor, and include experts in biodiversity, air quality, noise, surface water and groundwater management and other fields as specified by the Director-General.

C9. Within six (6) months of the completion of the audit identified in condition C8, or as otherwise agreed by the Director-General, the Proponent shall submit a copy of the audit report to the Director-General, together with its response to any recommendations contained in the audit report.

ACCESS TO INFORMATION

- C10. Within one (1) month of the date of this approval, and as documents are progressively made available, or as otherwise agreed by the Director-General, the Proponent shall:
 - (a) make copies of the following publicly available on its website:
 - (i) the documents referred to in Condition A2;
 - (ii) all current statutory approvals and licences for the development;
 - (iii) all approved plans and programs required under the conditions of this approval;
 - (iv) a comprehensive summary of the monitoring results relating to monitoring conducted under Part B of this approval, reported in accordance with any conditions of this consent, or any approved plans and programs;
 - (v) a summary of the complaints register, updated on a monthly basis;
 - (vi) the annual reviews as required in Condition C3 of this approval;
 - (vii) any independent environmental audit of the Project as required by Condition C8, and the Proponent's response to the recommendations in any audit;
 - (viii) any other matter required by the Director-General; and

(b) keep this information up to date, to the satisfaction of the Director-General.

ENVIRONMENTAL REPRESENTATIVE

- C11. Prior to the commencement of construction of the Project, or as otherwise agreed by the Director-General, the Proponent shall nominate, for the approval of the Director-General, a suitably qualified and experienced Environment Representative(s) that is independent of the design and construction personnel. The Proponent shall employ the Environmental Representative(s) for the duration of construction and for at least 12 months after commencement of operation, or as otherwise agreed by the Director-General. The Environment Representative(s) shall:
 - (a) provide advice to the Proponent and Planning and Infrastructure in relation to the performance of environmental management of the Project;
 - (b) monitor the Proponent's implementation of environmental management plans, monitoring programs and strategies required under this approval;
 - (c) be responsible for considering and advising the Proponent on matters specified in the conditions of this approval, and other licences and approvals related to the environmental performance and impacts of the Project;
 - (d) ensure that environmental auditing is undertaken in accordance with the approval or the Proponent's Environmental Management System(s) where one exists and has been accredited by the Director-General for use on the Project;
 - (e) be given the authority to approve/reject minor amendments to the Construction and Operation Environment Management Plans. What constitutes a "minor" amendment shall be clearly explained in the CEMP and OEMP required under conditions C1 and D7;
 - (f) be given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts, and failing the effectiveness of such steps, to direct that relevant actions be ceased immediately should an adverse impact on the environment be likely to occur; and
 - (g) be consulted in responding to the community concerning the environmental management and performance of the Project where resolution of points of conflict between the Proponent and the community is required.

COMMUNITY INFORMATION, CONSULTATION AND INVOLVEMENT

- C12. A **Community Communication Strategy** shall be prepared and implemented to facilitate communication between the Proponent (and its contractor(s)), the Environmental Representative (see condition C11), the relevant council(s) and community stakeholders (particularly adjoining landowners) on the construction environmental management and operation of the Project. The Strategy shall include, but not be limited to:
 - (a) identification of stakeholders to be consulted, including affected and adjoining landowners;
 - (b) procedures and mechanisms for the regular distribution of information to stakeholders on construction progress and key environmental management issues. The Strategy shall detail on structure, scope, objectives and frequency of information distribution;
 - (c) procedures and mechanisms through which stakeholders can discuss or provide feedback to the Proponent and/or Environmental Representative in relation to the environmental management and delivery of the Project;
 - (d) procedures and mechanisms for Proponent response to enquiries or feedback from stakeholders in relation to environmental management and delivery of the Project; and
 - (e) procedures and mechanisms that would be implemented to resolve issues/disputes that may arise between parties on the matters relating to environmental management and the delivery of the Project. This may include the use of an appropriately qualified and experienced independent mediator.

The Proponent shall maintain and implement the Strategy throughout construction and operation.

Complaints and Enquiries Procedure

- C13. Prior to the commencement of construction, or as otherwise agreed by the Director-General, the Proponent shall ensure that the following are available for community enquiries and complaints for the duration of construction:
 - (a) a 24 hour telephone number(s) on which complaints and enquiries about the Project may be registered;
 - (b) a postal address to which written complaints and enquires may be sent;
 - (c) an email address to which electronic complaints and enquiries may be transmitted; and
 - (d) a mediation system for complaints unable to be resolved.

The telephone number, the postal address and the email address shall be published in newspaper(s) circulating in the local area prior to the commencement of construction and prior to the commencement of operation. This information shall also be provided on the website (or dedicated pages) required by this approval.

C14. Prior to the commencement of construction, or as otherwise agreed by the Director-General, the Proponent shall prepare and implement a **Construction Complaints Management System** consistent with *AS 4269: Complaints Handling* and maintain the System for the duration of construction and operation of the Project.

Information on all complaints received, including the means by which they were addressed and whether resolution was reached, with or without mediation, shall be maintained in a complaints register and included in the construction compliance reports required by condition C3 of this approval. The information contained within the System shall be made available to the Director-General on request.

PART D OPERATION ENVIRONMENTAL MANAGEMENT

OPERATIONAL AIR QUALITY REVIEW

- D1. Following one full year of data collected in accordance with an approved Dust Monitoring Program (refer to condition B5), the Proponent shall undertake a model validation study to review TSP, PM₁₀ and dust deposition levels to assess compliance with the dust impact predictions made in the documents referred to under condition A2 and with applicable ambient air quality goals. The model validation study shall be undertaken in accordance with *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (DEC, 2005), and any specific requirements of the EPA.
- D2. Within 28 days of conducting the dust validation study referred to under condition D1, the Proponent shall provide the Director-General and the EPA with a copy of the report. If the dust validation study identifies significant deviation from the predictions made in the documents referred to under condition A2 or any exceedance with ambient air quality goals, the Proponent shall detail what additional measures would be implemented to ensure dust impacts are no worse than predicted or comply with the ambient air quality goals. The Proponent shall clearly indicate who would implement these measures, when these measures would be implemented and how the effectiveness of these measures would be assessed and reported to the Director-General and the EPA.
- D3. The requirements of conditions D1 and D2 shall be repeated for each year where the volume of exports has exceeded previous years until total throughput achieves 70 Mtpa.

OPERATIONAL NOISE REVIEW

- D4. Within 90 days of the commencement of operation of the project, or as otherwise agreed by the Director-General, and during a period in which the project is operating under normal operating conditions, the Proponent shall undertake a program to confirm the noise performance of the project. The noise program shall include, but not necessarily be limited to:
 - (a) noise monitoring, consistent with the guidelines provided in the *New South Wales Industrial Noise Policy* (EPA, 2000), to assess compliance with condition B14 of this approval.
 - (b) methodologies, locations and frequencies for noise monitoring;
 - (c) details of any complaints and enquiries received in relation to noise generated by the project within the first 90 days of operation;
 - (d) an assessment of night-time use of audible alarm systems;
 - (e) a statement of whether the Site complies with noise limits outlined in condition B14; and
 - (f) any additional noise mitigation measures and timetables for implementation.
- D5. Within 28 days of conducting the noise monitoring referred to under condition D4 of this approval, the Proponent shall provide the Director-General and the EPA with a copy of the report. If the noise monitoring report identifies any non-compliance with the noise limits imposed under this approval (refer condition B14), the Proponent shall detail what additional measures would be implemented to ensure compliance, clearly indicating who would implement these measures, when these measures would be implemented, and how the effectiveness of these measures would be measured and reported to the Director-General.
- D6. The requirements of conditions D4 and D5 shall be repeated within 90 days of the commencement of operation of each stage of the project

OPERATIONAL ENVIRONMENTAL MANAGEMENT

- D7. Prior to the commencement of operation, or as otherwise agreed by the Director-General, the Proponent shall prepare and implement (following approval) an **Operation Environmental Management Plan*** for the Project. The Plan shall outline the environmental management practices and procedures that are to be followed during operation, and shall be prepared in consultation with the EPA, OEH and DPI and in accordance with the *Guideline for the Preparation of Environmental Management Plans* (Department of Infrastructure, Planning and Natural Resources 2004). The Plan must:
 - (a) be submitted to the Director-General for approval no later than one (1) month prior to the commencement of operation or within such period otherwise agreed by the Director-General;
 - (b) include the following Sub-plans:
 - (i) Air Quality Management Plan;
 - (ii) Soil and Water Management Plan;
 - (iii) Flora and Fauna Management Plan;
 - (iv) Noise Management Plan;
 - (v) Spontaneous Combustion Management Protocol

* Note: or an ISO accredited Environmental Management System, where the Proponent can demonstrate, to the satisfaction of the Director-General, that the requirements of this condition could be achieved by that ISO accredited Environmental Management System;

** note that operation does not include any commissioning trials

D8. The Proponent shall ensure that the following specific requirements are considered in developing the sub-plans or procedures identified in condition D7, but not limited to:

(a) Air Quality Management Plan.

- (i) identification of all major sources of dust emissions that may occur as a result of the operation of the Project;
- (ii) description of all feasible and reasonable reactive and predictive mitigation measures or procedures to be implemented to manage identified dust sources;
- (iii) a framework for identifying actual and potential dust impacts as identified through the monitoring in accordance with conditions B5 to B7;
- (iv) procedures for applying pro-active and reactive mitigation and management measures to address those impacts identified through the framework in D8(a)(ii);
- (v) protocols for regular maintenance of plant and equipment, to minimise the potential for fugitive dust emissions;
- (vi) procedures for reviewing the effectiveness of the mitigation and management measures to be undertaken if any non-compliance is identified by the monitoring results in conditions B5 including consideration of additional management and mitigation measures such as chemical suppressants where measures implemented are shown to be ineffective;
- (vii) provision for independent review and auditing of the implementation of the Plan; and
- (viii) mechanisms for updating the Program as may be required from time to time and in response to results of other regional air quality studies.
- (b) **Water Management Plan**; to outline the water management system for the Site. The Plan shall include, but not necessarily be limited to:
 - (i) predicted Site water balance including the water supply system;
 - (ii) details regarding water management structures such as settling ponds and water tanks;

- (iii) locations and design specifications for all water diversions from undisturbed runoff areas including channel design and stabilisation, sediment retention storages and other structures;
- (iv) details on the internal drainage system including bunding, drainage channels, dewatering sumps and any pipelines;
- (v) procedures for the management of groundwater encountered on Site and any temporary dewatering facilities; and
- (vi) procedures to be implemented to minimise potential surface water impacts.
- (c) **Flora and Fauna Management Plan**; to outline ongoing management of biodiversity values. This Plan shall include, but not necessarily be limited to:
 - (i) an **Onsite Green and Golden Bell Frog Management Plan** to include, but not be limited to:
 - I. criteria against which success of the onsite habitat corridor will be measured;
 - II. details of monitoring including frequency, locations and reporting;
 - III.means of determining appropriate management response(s) where criteria are not met.
 - (ii) a **Tomago Offset Site Ecological Management Plan** to include, but not be limited to:
 - I. the criteria against which continued success of the Tomago Offset Site will be measured;
 - II. details of monitoring including frequency, locations and reporting;
 - III.means of determining appropriate management response(s) where criteria are not met.

This Plan shall be submitted to the Agency for approval by the Director-General within 12 months of the date of this approval or any other time as agreed by the Director-General.

- (d) **Noise Management Plan** to outline monitoring, management procedures and measures to minimise total operational noise emissions from the project. The Plan shall also include, but not necessarily be limited to:
 - (i) identification of all relevant receivers and the applicable criteria at those receivers commensurate with the noise limits specified under this approval;
 - (ii) identification of activities that will be carried out in relation to the project and the associated noise sources;
 - (iii) monitoring of project noise impacts at the relevant receivers against the noise limits specified under this approval;
 - (iv) details of all management methods and procedures that will be implemented to control individual and overall noise emissions from the Site during the project;
 - (v) details regarding the procurement process to guarantee that equipment levels meet the noise levels as provided in the documents listed in condition A2;
 - (vi) development of reactive and pro-active strategies for dealing promptly with any noise complaints;
 - (vii) noise monitoring and reporting procedures; and
 - (viii) regular internal audits of all plant and equipment.
- (e) **Hazards Management Protocol** to outline measures to minimise and manage hazards including the spontaneous combustion of the coal stockpiles. The Protocol shall include, but not necessarily be limited to:
 - (i) coal stockpile management measures;
 - (ii) monitoring of potential causes of spontaneous combustion events; and
 - (iii) corrective action in the event of spontaneous combustion.