

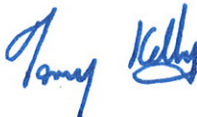
Project Approval

Section 75J of the *Environmental Planning and Assessment Act 1979*

I, the Minister for Planning, approve the project referred to in Schedule 1, subject to the conditions in Schedule 2.

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.



The Hon. Tony Kelly MLC
Minister for Planning

Sydney

31 MAR 2010 2010

File No: S08/01311

SCHEDULE 1

Application No:	08_0160
Proponent:	ACTEW Corporation
Approval Authority:	Minister for Planning
Land:	The pipeline route traverses approximately 12 kilometres on land between New South Wales and the Australian Capital Territory. Approximately 9 kilometres of the pipeline will traverse land within the Palerang Local Government Area of New South Wales.
Project:	Murrumbidgee to Googong Water Transfer project involves construction and operation of a water pipeline that transfers up to 100 megalitres of water per day from the Murrumbidgee River at Angle Crossing (Australian Capital Territory) to Burra Creek (New South Wales) approximately 10 kilometres south of Googong Reservoir.
Major Project:	The proposal is declared a Major Project under section 75B(1)(a) of the <i>Environmental Planning and Assessment Act 1979</i> , because it is a project of a kind described in Group 8, clause 26A of Schedule 1 to <i>State Environmental Planning Policy (Major Projects) 2005</i> . Namely development for the purpose of a pipeline in respect of which an application for a licence is made under the <i>Pipelines Act 1967</i> on or after the commencement of this clause
Critical Infrastructure Project:	The Project is "critical infrastructure" by virtue of an order made by the Minister on 26 June 2009 under section 75C. project within the meaning of section 75C of the Act.

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SCHEDULE 2

Act, the	<i>Environmental Planning and Assessment Act, 1979.</i>
Conditions of Approval	The Minister's conditions of approval for the project.
Construction	All pre-operation activities associated with the project other than survey, acquisitions, fencing, investigative drilling or excavation, building/road dilapidation surveys or other activities determined by the Environmental Representative to have minimal environmental impact such as minor access roads, minor adjustments to services/ utilities, establishing temporary construction sites (in accordance with the requirements of this project approval), or minor clearing (except where threatened species, populations or ecological communities would be affected).
Council	Palerang Council.
DECCW	Department of Environment, Climate Change and Water.
Department, the	Department of Planning.
Director-General, the	Director-General of the Department of Planning (or delegate).
Director-General's Approval	A written approval from the Director-General (or delegate) where the Director-General's Approval is required under a condition. The Director-General may ask for additional information if the approval request is considered incomplete.
Director-General's Report	The report provided to the Minister by the Director-General of the Department under section 75I of the EP&A Act.
Dust	any solid material that may become suspended in air or deposited.
EA	<i>Murrumbidgee to Googong Water Transfer Environmental Assessment prepared by GHD and dated 7 August 2009.</i>
Minister, the	Minister for Planning.
Pipeline	The water pipeline proposed in the <i>Murrumbidgee to Googong Water Transfer Environmental Assessment</i> .
Preferred Project Report	<i>The Murrumbidgee to Googong Water Transfer Preferred Environmental Impact Statement incorporating the Preferred Project Report prepared by ACTEW and dated 21 December 2009.</i>
Proponent	ACTEW Corporation, or any party acting under authorisation from and on behalf of ACTEW Corporation.
Project	Development to which Major Projects Application 08_0160 applies.
Publicly Available	Available for inspection by a member of the general public (for example available on an internet site or at a display centre).
Reasonable and feasible	Consideration of best practice taking into account the benefit of proposed measures and their technological and associated operational application in the New South Wales 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.
Site	The land to which this approval applies.

1. ADMINISTRATIVE CONDITIONS

Terms of Approval

- 1.1 The Proponent shall carry out the project generally in accordance with the:
- a) Major Project Application 08_0160;
 - b) the *Murrumbidgee to Googong Water Transfer Environmental Assessment* prepared by the Proponent and dated 7 August 2009;
 - c) the *Murrumbidgee to Googong Water Transfer Preferred Project Report contained in the Environmental Impact Statement* prepared by the Proponent and dated 21 December 2009; and
 - d) the conditions of this approval.
- 1.2 In the event of an inconsistency between:
- a) the conditions of this approval and any document listed from condition 1.1a) to 1.1c) inclusive, the conditions of this approval shall prevail to the extent of the inconsistency; and
 - b) any document listed from condition 1.1a) to 1.1c) inclusive, and any other document listed from condition 1.1a) to 1.1c) inclusive, the most recent document shall prevail to the extent of the inconsistency.
- 1.3 The Proponent shall comply with any reasonable requirement(s) of the Director-General arising from the Department'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 in these reports, plans or correspondence.

Limits of Approval

- 1.4 This project approval shall lapse five years after the date on which it is granted, unless the works subject of this approval has been completed on the site before that time.

Statutory Requirements

- 1.5 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 of 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.
- 1.6 This approval does not operate unless and until the Proponent has obtained relevant associated approvals for the Murrumbidgee to Googong Water Transfer project from the Australian Capital Territory Government under the *Planning and Development Act 2007* and the Commonwealth Government under the *Environment Protection and Biodiversity Conservation Act 1999*.

2. SPECIFIC ENVIRONMENTAL CONDITIONS

Soil and Water Quality Impacts

- 2.1 The Proponent shall comply with section 120 of the *Protection of the Environment Operations Act 1997* which prohibits the pollution of waters.
- 2.2 Soil and water management controls shall be employed to minimise soil erosion and the discharge of sediment and other pollutants to lands and/or waters during construction activities, in accordance with *Managing Urban Stormwater: Soils and Conservation* (Landcom, 2004).
- 2.3 The Proponent shall design, construct, operate and maintain the project to avoid impacts on bank stability within the Burra Creek riverine corridor and Googong Reservoir outlet and does not increase local flooding risk.

- 2.4 The Proponent shall not transfer water when Burra Creek is in flood based on a one in two year event or greater nor should the Proponent operate the pipeline where it results in water levels in Burra Creek being greater than the one in two year flood level.
- 2.5 Prior to the commencement of construction the Proponent shall conduct a review of potential conflicts between the project alignment and any identified hard rock resources existing along or adjacent to the pipeline easement. The review shall consider all reasonable and feasible options for resolving any identified conflicts, and shall be submitted for the Director-General's approval prior to the commencement of construction.

Ecological Impacts- Terrestrial

- 2.6 In regards to the Endangered Purple Pea, *Swainsona recta* the Proponent shall:
- avoid and protect the identified population of the species during construction of the crossing at the Goulburn to Cooma railway line;
 - submit to the Director-General and DECCW, as part of the Construction Environmental Management Plan required under condition 6.2, a pre construction survey of all potentially suitable habitat along the pipeline easement. The survey shall be conducted during the species flowering period; and
 - minimise impacts to any population identified during the surveying described in b), through detailed design and alignment refinements.
- 2.7 The pipeline easement width shall be reduced to the minimum feasible width in areas along the easement that are known to contain endangered ecological communities and/or threatened species habitat. Details regarding the extent and location of these reductions shall be included in the Construction Environment Management Plan contained in condition 6.2.
- 2.8 Any clearing of native vegetation, native grassland particularly Box Gum Grassy Woodland and rocky outcrops during construction of the pipeline shall be limited to the minimum feasible extent.
- 2.9 Areas specified in Table 1 that are expected to be cleared shall be offset utilising the compensatory habitat offset package described in documentation represented by Condition 1.1 c). The package located on the Williamsdale Property in the Australian Capital Territory shall be implemented prior to commissioning of the project. The package shall offset in perpetuity the value of habitat lost as a result of the project. A final review of the compensatory habitat offset package shall be provided to the Director-General in the Operation Environment Management Plan. This version shall:
- demonstrate the implementation of the offset;
 - describe how the offset shall be guaranteed and monitored in perpetuity; and
 - demonstrate a post construction review has been undertaken that confirms the extent of clearing was not greater than predicted. If clearing was greater, then the package shall demonstrate how the offset was modified and increased to the value of the actual habitat lost.

Table 1 – Habitat areas expected to be cleared

Endangered Ecological Community Habitat	Native Vegetation (Hectares)
Box-Gum Grassy Woodland	11.1
Natural Temperate Grassland	1.7
Snow Gum Grassy Woodland	0.3
Other Native Vegetation	3.6
Total	16.7

- 2.10 After construction is complete and for a period of two years after that time (or as otherwise required by the Director-General) the Proponent shall monitor areas along the project alignment, for weed infestation. Any infestations shall be actively managed to remove or minimise their spread.

Ecological Impacts- Aquatic

- 2.11 The Proponent shall implement the aquatic ecology management measures committed to in the documents set out in condition 1.1c) or elsewhere in these conditions of approval, including;
- monitoring and subsequent maintenance of flow transfer volumes to reasonably and feasibly mimic the natural flow regime based on stochastic data defined in the Preferred Project Report of Burra Creek during the native fish breeding season in order to protect any spawning populations of threatened fish species;
 - design measures to prevent the spread of invasive fish species;
 - design measures for the protection of natural ponding habitat. If the current natural ponds along Burra Creek are lost as a result of increased flows, the Proponent is required to re-establish natural ponding habitat; and
 - regular review of aquatic ecology monitoring results for any trends toward significant impacts in Burra Creek or Googong Reservoir.
- 2.12 Prior to the commencement of construction, the Proponent shall consult with the Department of Industry and Investment regarding the final design of the fish egg screens and proposed operating procedures of the pump stations. The pumping station shall be designed and operated in such a way that pumping cannot occur when adequate fish egg screens are not in place.

Noise Impacts

Construction Noise

- 2.13 The Proponent shall only undertake construction activities associated with the project that would generate an audible noise at any residential premises during the following hours:
- 7:00 am to 6:00 pm, Mondays to Fridays, inclusive;
 - 8:00 am to 1:00 pm on Saturdays; and
 - at no time on Sundays or public holidays.
- 2.14 This condition does not apply in the event of a direction from police or other relevant authority for safety reasons, to prevent environmental harm or risk to life.
- 2.15 The hours of construction activities may be varied with the prior written approval of the Director-General. Any request to alter the hours of construction shall be:
- considered on a case-by-case basis;
 - accompanied by details of the nature and need for activities to be conducted during the varied construction hours and any other information necessary to reasonably determine that activities undertaken during the varied construction hours will not adversely impact on the acoustic amenity of receptors in the vicinity of the site; and
 - affected residential receivers being informed of the timing and duration of work approved under this condition at least 48 hours before that work commences.

Construction Blasting

- 2.16 Blasting associated with the construction of the project shall only be undertaken during the following hours:
- 9:00 am to 5:00 pm, Mondays to Fridays, inclusive;
 - 9:00 am to 5:00 pm on Saturdays; and
 - at no time on Sundays or public holidays.
- 2.17 The Proponent shall ensure that air blast overpressure generated by blasting associated with the project does not exceed the criteria specified in Table 2 when measured at the most-affected residential or sensitive receiver.

Table 2 – Airblast Overpressure Criteria

Airblast Overpressure (dB(Lin Peak))	Allowable Exceedance
115	5% of total number of blasts over a 12 month period
120	Never

- 2.18 The Proponent shall ensure that the ground vibration generated by blasting associated with the project does not exceed the criteria specified in Table 3 when measured at the most-affected residential or sensitive receiver.

Table 3 – Peak Particle Velocity Criteria

Peak Particle Velocity Criteria	Allowable Exceedance
5	5% of total number of blasts over a 12 month period
10	Never

- 2.19 Prior to each blasting event, the Proponent shall notify the relevant local council and potentially-affected landowners, including details of time and location of the blasting event and providing a contact point for inquiries and complaints.

Operation Noise and Vibration

- 2.20 The Proponent shall take all reasonable measures to minimise noise emissions and vibration from all plant and equipment operated on the site such that they do not exceed noise and vibration criteria derived by application of the *NSW Industrial Noise Policy* (DECC, 2000) and *Assessing Vibration: A Technical Guideline* (DECC, 2006).

Traffic and Transport Impacts

- 2.21 Where the pipeline is located along and within a public road formation the Proponent shall:
- a) commission a qualified person to undertake a Road Dilapidation Report of all roads proposed to be used for construction and access activities in consultation with relevant road authorities. The Report shall assess the current condition of the relevant roads.
 - b) following completion of construction a subsequent Road Dilapidation Report shall be prepared to assess any damage that may have resulted due to traffic and transport related to the construction and ongoing operation of the project.

The Proponent shall restore the relevant roads to a state, described in the original Road Dilapidation report. The cost of any restorative work described in the subsequent Report or recommended by the relevant road authorities after review of the subsequent Report, shall be funded by the Proponent. Such work shall be undertaken at a time as agreed upon between the Proponent and the relevant road authorities. In the event of a dispute between the parties with respect to the extent of restorative work that may be required under this condition, any 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.

- 2.22 The Proponent shall ensure that all pipeline crossings of roads are constructed using construction methods and depth cover determined in consultation with the relevant road authority.
- 2.23 The Proponent shall apply to the relevant authority for any proposed temporary road closures at least one month prior to the proposed closure. Advertisement of the closure shall be funded by the Proponent.

- 2.24 The Proponent shall obtain the relevant consent to utilise the nominated Council storage areas within Williamsdale Road Reserve subject to Council requirements.
- 2.25 The Proponent shall consult with the Australian Railway Historical Society to ensure the timing of any construction impacts on the use of the Goulburn to Cooma Railway (Michelangelo Tourist Railway) are minimised.

Heritage Impacts

- 2.26 If during the course of construction the Proponent becomes aware of any previously unidentified significant Aboriginal object(s), all work likely to affect the object(s) shall cease immediately and the DECCW informed in accordance with the *National Parks and Wildlife Act 1974*. Relevant works shall not recommence until written authorisation from the DECCW advising otherwise is received by the Proponent.
- 2.27 If during the course of construction the Proponent becomes aware of any previously unidentified heritage object(s), all work likely to affect the object(s) shall cease immediately and the Heritage Council of New South Wales shall be notified immediately in accordance with the *NSW Heritage Act 1977*. Management measures set out in the Unanticipated Discovery Protocol discussed in the Statement of Commitments contained in the Preferred Project Report represented by condition 1.1c) shall be implemented.
- 2.28 Any indigenous or non-indigenous items of heritage significance located along or within the vicinity of the pipeline easement shall be avoided including sites and/or objects along Burrumbidgee Creek and London Bridge karst formations as well as at Williamsdale School.
- 2.29 Monitoring of London Bridge karst formations is to occur subject to commitments made in the Proponent's Statement of Commitments contained in documents referred to in condition 1.1c).

Waste Generation and Management

- 2.30 All waste materials removed from the site shall only be directed to a waste management facility lawfully permitted to accept the materials.
- 2.31 The Proponent shall maximise the treatment, reuse and/or recycling on the site of any excavated soils, slurries, dusts and sludges associated with the project, to minimise the need for treatment or disposal of those materials outside the site.
- 2.32 The Proponent shall not cause, permit or allow any waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by a licence under the *Protection of the Environment Operations Act 1997*, if such a licence is required in relation to that waste.
- 2.33 The Proponent shall ensure that all liquid and/or non-liquid waste generated and/or stored on the site is assessed and classified in accordance with *Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes* (DEC, 2004), or any future guideline that may supersede that document.

Air Quality Impacts

Dust Generation

- 2.34 The Proponent shall construct and operate the project in a manner that minimises dust emissions from the site, including wind-blown and traffic-generated dust. All activities on the site shall be undertaken with the objective of preventing visible emissions of dust from the site. Should such visible dust emissions occur at any time, the Proponent shall identify and implement all practicable dust mitigation measures, including cessation of relevant works, as appropriate, such that emissions of visible dust cease.

Odour

- 2.35 The Proponent shall not cause or permit the emission of offensive odours from the site in accordance with the provisions of Section 129 of the *Protection of the Environment Operations Act 1997*.

3. ENVIRONMENTAL MONITORING AND AUDITING

Geo-Morphological Monitoring

- 3.1 Prior to the commencement of construction the Proponent shall prepare and implement a **Geo-Morphological Monitoring Program** to monitor the impact of the project on the present morphology of Burra Creek at the pipeline outlet location and downstream to Googong Reservoir. The Program shall be developed in consultation with the DECCW and shall include but not necessarily be limited to:
- a) set out monitoring requirements in order to assess the impact of the project on the present geo-morphology of Burra Creek at the pipeline outlet location and downstream to Googong Reservoir.
 - b) baseline monitoring prior to the introduction of flows through Burra Creek in order to establish any geo-morphological changes resulting from the project.
 - c) provisions for monitoring during construction, operational and non-operational phases;
 - d) mechanisms for immediately investigating any anomalous monitoring results;
 - e) mechanisms for the management and mitigation of any impacts on the waterways including cessation of flows where necessary; and
 - f) details of how the monitoring results will be reported to the Director-General and the DECCW.

The Program shall be submitted for the approval of the Director-General no later than one month prior to the commencement of construction, or within such period otherwise agreed by the Director-General, accompanied by written evidence that the DECCW has been consulted and that the DECCW is satisfied with the Program. Construction shall not commence until written approval has been received from the Director-General.

Water Quality Monitoring

- 3.2 Prior to the commencement of construction, the Proponent shall prepare and implement a **Surface Water Monitoring Program** to monitor and manage the impact of the project on the waterways into which any extracted Murrumbidgee River water is discharged. The Program shall be prepared in accordance with sections 8.2.3.3 and 8.2.3.4 of *Australian and New Zealand Guidelines for Fresh and Marine Water Quality – Volume 2: Aquatic Ecosystems* (ANZECC & ARMCANZ, 2000) The Program shall be developed in consultation with the DECCW and shall include but not necessarily be limited to:
- a) the monitoring framework detailed in the documents referred to in condition 1.1;
 - b) a baseline monitoring program;
 - c) an evaluation of the discharges in terms of temporal and spatial scales;
 - d) a comparison of discharge data with baseline data;
 - e) sampling and data collection at representative sites, both impact (downstream of the discharge point) and control (upstream of the discharge point) sites;
 - f) sampling and data collection for the discharges and immediate receiving environment to quantify the changes in ecosystem health and water quality with specific reference to phytoplankton, aquatic vegetation, macroinvertebrates, fish, temperature, salinity, dissolved oxygen, iron and manganese;
 - g) provisions for the review of the Program within six months of commencement of the first full operational flow into Burra Creek;
 - h) identification of key water parameters including but not limited to flow rate, temperature, pH, salinity, total dissolved solids and nutrient parameters for the operation of the project;
 - i) management actions for the parameters identified in h) should they be breached; and
 - j) details of how the monitoring results will be reported to the Director-General and DECCW.

The Program shall be submitted for the approval of the Director-General no later than one month prior to the commencement of construction, or within such period otherwise agreed by the Director-General, accompanied by evidence that the DECCW has been consulted regarding the Program. Construction shall not commence until written approval has been received from the Director-General.

Ecological Monitoring

3.3 Prior to the commencement of construction the Proponent shall prepare and implement an **Ecological Monitoring Program** to monitor the impact of the project on the ecology that may be impacted by the proposal. The Program shall be developed in consultation with the DECCW and Department of Industry and Investment NSW and shall include but not necessarily be limited to:

- a) set out monitoring requirements as detailed in the documents referred to in Condition 1.1 c), in order to assess the impact of the project on Ecology present along the easement and at Burra Creek at the pipeline outlet location and downstream including the Googong Reservoir.
- b) baseline monitoring prior to the introduction of flows through Burra Creek in order to establish any ecological changes resulting from the project.
- c) provisions for monitoring trench areas for any native fauna impacts likely to result from this work. Any native fauna found in the open trench shall be recorded and managed in consultation with DECCW;
- d) provisions for monitoring during construction, operational and non-operational phases;
- e) mechanisms for immediately investigating any anomalous monitoring results;
- f) mechanisms for the management and mitigation of any impacts on the waterways including cessation of flows where necessary; and
- g) details of how the monitoring results will be reported to the Director-General and the DECCW and the Department Industry and Investment NSW.

The Program shall be submitted for the approval of the Director-General no later than one month prior to the commencement of construction, or within such period otherwise agreed by the Director-General, accompanied by evidence that the DECCW has been consulted regarding the Program. Construction shall not commence until written approval has been received from the Director-General.

4. COMMUNITY INFORMATION, CONSULTATION AND INVOLVEMENT

4.1 Subject to confidentiality, the Proponent shall make all documents required under this approval available for public inspection on request.

Provision of Electronic Information

4.2 Prior to the commencement of construction of the project, the Proponent shall establish a dedicated website or maintain dedicated pages within its existing website for the provision of electronic information associated with the project subject to confidentiality. The Proponent shall publish and maintain up-to-date information on this website or dedicated pages including, but not necessarily limited to:

- a) the current implementation status of the project;
- b) a copy of this approval and any future modification to this approval;
- c) a copy of each relevant environmental approval, licence or permit required and obtained in relation to the project;
- d) a copy of each plan, report, or required monitoring program under this approval; and
- e) details of the outcomes of compliance reviews and audits of the project.

Community Information Plan

4.3 Prior to the commencement of construction, the Proponent shall prepare and implement a **Community Information Plan** which sets out the community communications and consultation processes to be undertaken during construction and operation of the project. The Plan shall include but not be limited to:

- a) procedures and timing to consult with the community and Palerang Council in order to come to an agreement regarding revegetation of Burra Creek adjacent to Burra Village, raising of pedestrian access to London Bridge Homestead above the predicted high water mark and the construction of a bridal trail along areas where roadwork is required.
- b) procedures to inform the local community of planned investigations and Construction activities, including blasting works;
- c) procedures to inform the relevant community of Construction traffic routes and any potential disruptions to traffic flows and amenity impacts;
- d) procedures to consult with local landowners with regard to Construction traffic to ensure the safety of livestock and to limit disruption to livestock movements;
- e) procedures to inform the community where work has been approved to be undertaken outside the normal Construction hours, in particular noisy activities;
- f) procedures to inform and consult with affected landowners to rehabilitate impacted land;
- g) procedures to notify relevant landowners of the process available to review potential impacts on radio and television transmission; and
- h) procedures to notify relevant landowners of the process available to review potential impacts on aerial spraying.

Complaints Procedure

4.4 Prior to the commencement of construction of the project, the Proponent shall ensure that the following are available for community complaints for the life of the project (including construction and operation):

- a) a 24 hour telephone number on which complaints about construction and operational activities at the site may be registered;
- b) a postal address to which written complaints may be sent; and
- c) an email address to which electronic complaints may be transmitted.

The telephone number, the postal address and the e-mail address shall be advertised in a newspaper circulating in the locality on at least one occasion prior to the commencement of construction and at six-monthly intervals for two years following commencement of operation of the project. These details shall also be provided on the Proponent's internet site. The telephone number, the postal address and the email address shall be displayed on a sign near the entrance to the site, in a position that is clearly visible to the public.

4.5 The Proponent shall record details of all complaints received through the means listed under condition 4.4 of this approval in an up-to-date Complaints Register. The Register shall record, but not necessarily be limited to:

- a) the date and time, where relevant, of the complaint;
- b) the means by which the complaint was made (telephone, mail or email);
- c) any personal details of the complainant that were provided, or if no details were provided, a note to that effect;
- d) the nature of the complaint;
- e) any action(s) taken by the Proponent in relation to the complaint, including timeframes for implementing the action; and
- f) if no action was taken by the Proponent in relation to the complaint, the reason(s) why no action was taken.

The Complaints Register shall be made available for inspection by the Director-General upon request.

4.6 The Proponent shall provide an initial response to any complaints made in relation to the project during construction or operation within 48 hours of the complaint being made. The response and any subsequent action taken shall be recorded in accordance with condition 4.5.

5. COMPLIANCE TRACKING PROGRAM

5.1 Prior to the commencement of construction, the Proponent shall develop and implement a **Compliance Tracking Program** for the project, to track compliance with the requirements of

this approval during the construction and operation of the project and shall include, but not necessarily limited to:

- a) provisions for periodic reporting of the compliance status to the Director-General including at least prior to the commencement of construction of the project, prior to the commencement of operation of the project and within two years of operational commencement;
- b) a program for independent environmental auditing in accordance with *AS/NZ ISO 19011:2003 - Guidelines for Quality and/or Environmental Management Systems Auditing*;
- c) procedures for rectifying any non-compliance identified during environmental auditing or review of compliance;
- d) mechanisms for recording environmental incidents and actions taken in response to those incidents;
- e) provisions for reporting environmental incidents to the Director-General during construction and operation; and
- f) provisions for ensuring all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.

6. ENVIRONMENTAL MANAGEMENT

Environmental Representative

6.1 Prior to the commencement of any construction or operational activities or as otherwise agreed by the Director-General, the Proponent shall nominate for the approval of the Director-General a suitably qualified and experienced Environmental Representative(s) independent of the design, construction and operation personnel. The Proponent shall engage the Environmental Representative(s) during any construction activities, and throughout the life of the project, or as otherwise agreed by the Director-General. The Environmental Representative(s) shall:

- a) oversee the implementation of all environmental management plans and monitoring programs required under this approval, and advise the Proponent upon the achievement of these plans/programs;
- b) consider and advise the Proponent on its compliance obligations against all matters specified in the conditions of this approval and the Statement of Commitments as referred to under condition 1.1c) of this approval, permits and licences; and
- c) have the authority and independence to recommend to the Proponent reasonable steps to be taken to avoid or minimise unintended or adverse environmental impacts, and, failing the effectiveness of such steps, to recommend to the Proponent that relevant activities are to be ceased as soon as reasonably practicable if there is a significant risk that an adverse impact on the environment will be likely to occur.

Construction Environmental Management Plan

6.2 The Proponent shall prepare and implement a **Construction Environmental Management Plan** (CEMP) to outline environmental management practices and procedures to be followed during construction of the project. The Plan shall be consistent with the *Guideline for the Preparation of Environmental Management Plans* (DIPNR, 2004) and shall include, but not necessarily be limited to:

- a) a description of all relevant activities to be undertaken on the site during construction including an indication of stages of construction, where relevant;
- b) details of the areas designated for the erection of public information signage;
- c) statutory and other obligations that the Proponent is required to fulfil during construction including all relevant approvals, consultations and agreements required from authorities and other stakeholders, and key legislation and policies;
- d) details of how the environmental performance of the construction works will be monitored, and what actions will be taken to address identified potential adverse environmental impacts;
- e) a description of the roles and responsibilities for all relevant employees involved in the construction of the project;
- f) details of any construction camp sites and the management of these sites;

- g) specific consideration of relevant measures to address any requirements identified in the documents referred to under conditions 1.1b) and 1.1c) of this approval;
- h) the additional monitoring listed in this approval;
- i) complaints handling procedures during construction; and
- j) route alignment sheet to identify the final pipeline alignment including identification of areas where the easement area has been reduced to minimise impacts to threatened species as contained in condition 2.6.

The Construction Environment Management Plan shall be submitted for the approval of the Director-General no later than one month prior to the commencement of any relevant construction works associated with the project, or within such period otherwise agreed by the Director-General. Construction works shall not commence until written approval has been received from the Director-General.

- 6.3 As part of the Construction Environmental Management Plan required under condition 6.2 of this approval, the Proponent shall prepare and implement the following:
- a) a **Surface and Groundwater Water Management Plan** to manage water quality impacts during construction. The Plan shall be prepared in consultation with the DECCW and shall include, but not necessarily be limited to:
 - i) detailed engineering designs for the outlet structure;
 - ii) detailed engineering designs for each category of watercourse crossing;
 - iii) rehabilitation methodology of each category of watercourse crossing;
 - iv) a description of any dewatering activities associated with groundwater interception;
 - v) monitoring measures listed in condition 3.1 and 3.2;
 - vi) a description of the quantity and source of all water supplies relating to construction, hydro-testing and operation; and
 - vii) a description of any dewatering activities associated with groundwater interception along the pipeline easement that includes the quantity of groundwater to be used and a description of any expected impacts associated with the works.
 - b) a **Flora and Fauna Management Plan** to outline measures to protect and minimise loss of terrestrial and aquatic native vegetation and native fauna habitat as a result of construction of the project. The Plan shall include, but not necessarily be limited to:
 - (i) plans showing terrestrial vegetation communities; important flora and fauna habitat areas; locations where threatened species such as the *Swainsona Recta*, Pink-tailed Worm Lizard and Rosenberg's Goanna as well as iconic species such as the Platypus, have been recorded or are likely to occur; and areas to be cleared. The plans shall also identify vegetation adjoining the site where this contains important habitat areas and/or threatened species, populations or ecological communities;
 - (ii) methods to manage impacts on flora and fauna species and their habitat which may be directly or indirectly affected by the project, such as location of fencing, procedures for clearing of vegetation or soil and procedures for re-locating hollows or installing nesting boxes;
 - (iii) rehabilitation details and a program for reporting on the effectiveness of flora and fauna management measures, including a schedule for planting and seeding within areas supporting Endangered Ecological Communities. Management methods shall be reviewed where found to be ineffective.
 - c) a **Construction Noise and Vibration Management Plan** to manage noise and vibration impacts during construction and to identify all feasible and reasonable noise and vibration mitigation measures. This plan shall be developed by a qualified acoustic consultant, agreed to by the Director-General and demonstrate the maximum feasible noise attenuation. The Plan shall address the requirements of the DECCW and shall include, but not necessarily be limited to:
 - i) details of all potentially affected sensitive receivers modelled to have noise construction exceedances according to the NSW Interim Construction Noise Guidelines (July 2009.) where exceedances are shown an analysis of all feasible mitigation measures to reduce construction noise and vibration impacts including the use of noise attenuation barriers, alternative construction methods and work practices where potential noise impacts exceed the relevant objectives;

- ii) an alternative construction schedule may be developed with the prior consent of the potentially affected receivers
- iii) description and commitment to work practices which limit noise;;
- iv) procedures for notifying residents of construction activities that are likely to affect their noise and vibration amenity.
- v) extent of noise monitoring (as well as blast monitoring)
- vi) contingency plans to be implemented in the event of non-compliance and / or noise and vibration complaints
- vii) site contact person to follow up complaints
- d) a **Traffic Management Plan** to manage traffic conflicts that may be generated during construction of the project. The Plan shall address the requirements of the relevant road authority and shall include, but not necessarily be limited to:
 - i) details of how construction of the project will be managed in proximity to local and regional roads;
 - ii) details of traffic routes for heavy vehicles, including any necessary route or timing restriction for oversized loads;
 - iii) demonstration that all statutory responsibilities with regard to road traffic impacts have been complied with;
 - iv) details of measures to minimise interactions between the project and other users of the roads such as the use of fencing, lights, barriers, traffic diversions etc;
 - v) procedures for informing the public where any road access will be restricted as a result of the project;
 - vi) procedures to manage construction traffic to ensure the safety of livestock and to minimise disruption to livestock;
 - vii) speed limits to be observed along routes to and from the site and within the site;
 - viii) minimum requirements for vehicle maintenance to address noise and exhaust emissions, particularly along roads in close proximity to residences; and
 - ix) details of the expected behavioural requirements for vehicle drivers travelling to and from the site and within the site

Operation Environmental Management Plan

- 6.4 The Proponent shall prepare and implement an **Operation Environmental Management Plan** in accordance with the *Guideline for the Preparation of Environmental Management Plans* (DUAP, 2004) or its latest revision. The Plan shall include but not necessarily be limited to:
- a) identification of all statutory and other obligations that the Proponent is required to fulfil in relation to the operation of the development, including all consents, licences, approvals and consultations;
 - b) a management organisational chart identifying the roles and responsibilities for all relevant employees involved in the operation of the project;
 - c) overall environmental policies to be applied to the operation of the project;
 - d) standards and performance measures to be applied to the project, and means by which environmental performance can be periodically monitored, reviewed and improved, (where appropriate) and what actions would be taken in the case that non-compliance with the requirements of this approval are identified. In particular the following environmental performance issues shall be addressed:
 - (i) bushfire hazard and risk management; and
 - (ii) management and maintenance of offsets including the presentation to the Director-General of the final offset compensatory habitat package post-construction impact review;
 - (iii) management measures for easement areas, including management of vegetation, soil erosion, weed control and landholder liaison.
 - e) the environmental monitoring requirements outlined under this approval;
 - f) complaints handling procedures as identified in conditions 4.4 to 4.5; and
 - g) the Management Plans listed under condition 6.5 of this approval;
 - h) specific consideration of relevant measures to address any requirements identified in the documents referred to under conditions 1.1b) and 1.1c) of this approval; and

- i) management policies to ensure that environmental performance goals are met and to comply with the conditions of this approval;

The Plan shall be submitted for the approval of the Director-General no later than one month prior to the commencement of Operation of the project or within such period as otherwise agreed by the Director-General. Operation shall not commence until written approval has been received from the Director-General. Upon receipt of the Director-General's approval, the Proponent shall make the Plan publicly available as soon as practicable.

- 6.5 As part of the Operation Environmental Management Plan required under condition 6.4, the Proponent shall prepare and implement a **Flow Management Plan** that identifies the quantity, timing, duration and velocity of water transfer flows to Burra Creek. The Plan shall be developed in consultation with the DECCW.

7. ENVIRONMENTAL REPORTING

Incident Reporting

- 7.1 The Proponent shall notify the Director-General and any relevant Government authority of any incident with actual or potential significant off-site impacts on people or the biophysical environment as soon as practicable after the occurrence of the incident. The Proponent shall provide written details of the incident to the Director-General within seven days of the date on which the incident occurred.
 - 7.2 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 7.1 of this approval, within such period as the Director-General may require.
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