



Compliance Tracking Report July to December 2014

Googong Township Integrated Water Cycle Project

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1 Introduction

1.1 Background

Googong Township Proprietary Limited (GTPL), a partnership between Canberra Investment Corporation (CIC) and Mirvac, is responsible for the development of the new Googong Township, located in the Canberra region, around 7 km south of Queanbeyan in NSW. The new Googong Township will be home to about 16,000 people and developed over the next 25 years.

The township is designed around an Integrated Water Cycle (IWC), with a dedicated Water Recycling Plant (WRP) that will reduce the consumption of potable water in the community by around 60 per cent and recycle the township's water for non-potable use.

The *Googong Township Water Cycle Project Environmental Assessment* (November 2010) (EA) was prepared under (the now repealed) Part 3A of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) to assess the impacts of construction and operation of infrastructure for the potable water, recycled water and sewage system required to service the township.

Concept Approval for the ultimate development (Stage 1 and Stage 2) and a Project Approval for Stage 1 of the Googong Township IWC Project (IWC Project) were granted by the NSW Planning Assessment Commission, under delegation from the Minister for Planning and Infrastructure on 24 November 2011.

Stage 1 of the IWC Project comprises new infrastructure to deliver potable drinking water to the township, treat wastewater and utilise recycled water for re-use in the township and for environmental discharge. Stage 1 includes a new WRP, temporary reservoirs for recycled and potable water, pumping stations and mains pipework (including rising and distribution mains) for sewage, recycled water and potable water.

The IWC Project is being constructed and operated in stages to ensure the infrastructure is correctly sized to meet the incremental level of demand. Construction for Stage 1 commenced in January 2013 (for Stage A Network) and operation of the first water and sewage infrastructure commenced 14 February 2014. An interim sewer service for the first stage of development will be operating until the WRP is commissioned.

The Compliance Tracking Program for the IWC Project, approved by the Department of Planning and Infrastructure now the Department of Planning and Environment (DP&E) in October 2012, stipulates that a Compliance Tracking Report must be prepared every six months during the construction period of the IWC Project and during the first two years of operation. An Independent Environmental Representative (ER) has also been appointed for the construction phase of the IWC Project (Richard Sharp, Ecology and Heritage Partners) who is independent of the IWC Project and oversees the implementation of all environmental management plans and monitoring programs and advises on compliance obligations.

1.2 Purpose

Pre-construction compliance reports for the first two construction stages were prepared in late 2012 and the first three construction compliance reports have been prepared for the period extending from January to June 2013, July to December 2013 and January to June 2014. This Compliance Tracking Report has been prepared to assess compliance of the IWC Project for the reporting period of July 2014 to December 2014.

As noted in Section 1.1, Stage 1 of the IWC Project is being constructed in stages to meet the incremental demand and this report assesses the compliance for stages that were underway or soon to commence during the reporting period (July to December 2014), and includes:

- Stage A Network (east) (construction).
- Stage A Network (west) (construction).
- Stage A Network (operation).
- Stage AB WRP (pre-construction).
- Stage AB WRP (construction).
- Stage B Network (construction).

This Compliance Tracking Report has been structured so that each chapter addresses one of the issues, as required by Section 2.2 of the Compliance Tracking Program.

- Scope of activities – Section 2.
- Performance of environmental controls – Section 3.
- Compliance with conditions and summary of non-compliances – Section 4.
- Environmental incidents – Section 5.
- Outcomes of monitoring – Section 6.
- Outcomes of inspections and audits – Section 6.1.
- Complaints – Section 7.1.

2 Scope of works

2.1 Stage A Network

2.1.1 Construction – Stage A Network (east)

Stage A Network (east) comprises temporary connection from ACTEW water treatment plant, Bulk Water Pumping Station (BWPS), associated water main to, and flow meter at junction with Stage A Network (west) and is being constructed by Guideline ACT, under the supervision of ACTEW on behalf of GTPL.

A CEMP was prepared by GTPL and approved by DP&I on 5 December 2012, with subsequent minor revisions endorsed by the ER. Construction commenced for Stage A Network (east) in May 2013.

During the reporting period Guideline ACT has undertaken the following construction activities as part of the Stage A – Network (east):

- Undertaking of earthworks to the east of the BWPS and around the bulk supply main to allow the construction of the permanent DN1800 Bulk Water.
- Construction of the access ramp/road and crane pad for the bulk water connection (BWC), and the repair and sealing of the access road and BWPS pad.
- Construction of the BWC valve pit/structure including all access structures.
- Connection of the BWC to the BWPS.
- Installation of electrical switchboard, controls and communications for BWC and integration with the existing BWPS control system.
- Ancillary works including all landscaping (including Stage A BWPS uphill batter), drainage/stormwater, retaining walls, concrete kerbs, footpaths and minor works.

2.1.2 Construction – Stage A Network (west)

Stage A Network (west) comprises Sewage Pumping Station 1 (SPS1), interim reservoirs and connecting pipe mains and has been constructed by GTPL and their contractor Woden Contractors.

A Construction Environmental Management Plan (CEMP) was prepared by GTPL and approved by DP&I on 18 October 2012, with subsequent minor revisions endorsed by the ER. Construction commenced on Stage A Network (west) in January 2013 and was completed by August 2014, with Wodens undertaking final works, commissioning and rectification activities during this reporting period.

During the reporting period Woden Contractors has undertaken the following construction activities as part of the final works for Stage A Network (west):

- Reservoirs – final works, commissioning and rectification activities.

2.1.3 Operation – Stage A Network

The DP&E approved an Operation Environmental Management Plan (OEMP) for the combined operation of Stage A Network (west/east) on 14 October 2013. After some commissioning delays, operation of Stage A Network commenced 14 February 2014. It involves the:

- Delivery of potable water from the BWPS to the reservoirs and township.
- Collection of sewage at SPS1.

- Transfer of sewage to ACTEW's disposal point at Coppins Crossing via tanker.

Ecowise have been engaged on behalf of GTPL and QCC to manage the operation of the interim reservoirs and SPS1 (until formal handover to QCC). Transpacific has been engaged to tanker sewage from SPS1 to Coppins Crossing, and on average around 5 tanker loads have been transferred to Coppins Crossing.

2.2 Stage AB WRP

Stage AB WRP involves infrastructure to provide tertiary treatment of sewage and production of recycled water suitable for use within the township. The WRP is situated in the north-eastern corner of NH1A adjacent to Googong Dam Road.

2.2.1 Pre-construction

A CEMP was prepared by GTPL and approved by DP&E on 11 December 2013, with subsequent minor revisions endorsed by the ER. Early works for the Stage AB WRP works commenced on 5 August 2014 and was completed on 17 September 2014 and was constructed by Huon on behalf of GTPL.

During the reporting period Huon undertook the following activities as part of the Stage AB WRP:

- Carry out earthworks for WRP, including site clearing, stripping topsoil, bulk excavation, compaction of fill for platforms, stockpiling of excess useable material and site clean up.

2.2.2 Construction

A CEMP was prepared by GTPL and approved by DP&E on 11 December 2013, with subsequent minor revisions endorsed by the ER. Construction for the Stage AB WRP commenced in September 2014 and is being constructed by John Holland Group (JHG) under the supervision of Black Mountain, on behalf of GTPL.

During the reporting period JHG has undertaken the following construction activities as part of the Stage AB WRP:

- WRP site establishment activities including site office amenities building setup, stabilise main site access, undertaking minor environmental management, commence minor detailing excavation works.
- Undertaking minor environmental erosion and sediment control works including shaping swales.
- Concrete pours for Bioreactor construction components.
- Sediment Basin.
- Piling adjacent to bioreactor excavation.
- Dewatering excavation and sediment basin.
- Steel tying and steel fixing.
- Detailed excavation – Blower, GPPS and Chemical Storage Area.
- Sewer rising mains within the site to the inlet headworks.
- Surveying.
- Fencing and signage.

2.3 Stage B Network

Stage B Network comprises the construction, testing and commissioning of the proposed booster pumping station at the interim reservoir site, the Sewage Pumping Station 2 (SPS2) (including wet well storage and emergency storage tanks and all ancillary works), and rising main/s from SPS2 to the WRP site boundary. Stage B Network is being constructed by Guideline ACT, under the supervision of Black Mountain on behalf of GTPL.

A CEMP was prepared by GTPL and approved by DP&E on 27 August 2014, with subsequent minor revisions endorsed by the ER. Construction commenced for Stage B Network in December 2014.

The Stage A Network (west) CEMP was revised to incorporate the booster facility as part of the Stage B Network works and was endorsed by the ER on 19 November 2014. Construction commenced for Stage B Network in December 2014.

During the reporting period Guideline ACT has undertaken the following construction activities as part of the Stage B Network:

- Construction, testing and commissioning of all associated works at the booster pump area.
- Blasting, bulk and detail excavation works of tank area and wet well.
- Set-out works for SPS2 dual rising mains.

2.4 Consistency assessments

Two consistency assessments were prepared during the reporting period and issued to the ER and to DP&E and included:

1. The location of the Bulk Water DN1800 stockpile site, to the east of the WRP, outside the project approved boundary.
2. The proposed extension of the Stage B Network construction footprint outside of the Approved Project boundary.

2.5 Modifications

One modification (Modification 3) was submitted during the reporting period to DP&E on 28 August 2014. The proposed modification involves a change to the Pink-tailed Worm-lizard (also known as the Pink-tailed Legless Lizard and *Aprasia parapulchella*) Conservation Area boundary. The modification was assessed by DP&E and approved 27 October 2014.

As a result of the modification, some changes were made to the Googong Township Pink-tailed Worm-lizard Protection and Management Plan to address amendments to the Conditions of Approval (CoA) B14 and D9, specifically the changes to the boundary of the Pink-tailed Worm-lizard conservation area as approved by Modification 3. This amendment to the Pink-tailed Worm-lizard Protection and Management Plan (Revision 5) was assessed and approved by DP&E on 28 October 2014.

3 Environmental controls

3.1 Introduction

Environmental controls are implemented in a manner that avoids or minimises the impact of the project to the environment and the community. These controls can be short term (during construction) or long term (during operation). The following section outlines environmental controls that have been installed and implemented as part construction of the IWC Project during the reporting period.

3.2 Stage A Network

3.2.1 Construction – Stage A Network (east)

As per the mitigation measures prescribed in the environmental management plans appended to the CEMP, the following environmental controls at Stage A Network (east) were implemented and/or remained in place during the reporting period:

- Installation and maintenance of erosion and sediment controls as outlined in the Erosion and Sediment Control Plan, and water testing (turbidity) after rainfall events.
- Appropriate storage of chemicals and spill kits and bunding of sub-contractor vehicles that have containers of oils.
- A total of 46 nest boxes have been installed.
- Fencing of clearing exclusion zones and erection of signage (eg for Endangered Ecological Communities, Hoary Sunray population).
- Heritage fencing around known heritage items.
- Dust suppression through use of water tanker and other measures in accordance with the Air Quality Management Plan to manage dust and vehicle exhaust emissions.
- Installation of security fencing at the revenue station.
- Management of concrete waste on site (reuse or disposal).
- Landscaping – Guideline ACT and Revegetation and Erosion Control Services have planted over 900 trees along the batters either side of the pipe bench and access road. In addition they have also undertaken grass establishment, mulching, weed monitoring and removal.

3.2.2 Construction – Stage A Network (west)

As per the mitigation measures prescribed in the environmental management plans appended to the CEMP, the following environmental controls at Stage A – Network (west) were implemented and/or remained in place during the reporting period:

- Installation and maintenance of erosion and sediment controls as outlined in the Erosion and Sediment Control Plan.
- Appropriate storage of chemicals and spill kits.
- Site fencing.
- A total of ten nest boxes have been installed.

- Collection storage and treatment of concrete waste on site.
- Landscaping – Woden Contractors and Able Landscaping have planted native grass, garden beds and eucalypt trees along Googong Dam Road (ie pipe alignment) and planting of grass/shrubs has also taken place at SPS1.

3.2.3 Operation – Stage A Network

As per the mitigation measures prescribed in the Stage A Network OEMP, the following environmental controls at Stage A Network were implemented during the reporting period:

- QCC has developed the following additional procedures for operation of the interim reservoirs and network:
 - Googong Township Interim Water Supply Drinking Water Quality Management Plan (QCC, September 2013).
- Ecowise has developed the following additional procedures for maintenance and operation of the interim reservoirs and SPS1:
 - T703 Maintenance of Water and Sewerage Assets.
 - E110 Emergency Preparedness and Response.
 - O112 Accident Incident Reporting.
- Transpacific has developed the following additional procedures for tankering operations.
 - Work Instruction – Sewerage Tankering – TIS Unanderra – 2014-06-27T15_04_51.
 - Risk Assessment Form – Tanker Operations – Non DG – TIS Unanderra – 2014-03-18T13_57_21.
 - Emergency Procedures Guide for Drivers Operations – TIG OPS F 3251.
 - Transpacific SWC WI 1056: Effluent Transport Googong Township to Queanbeyan STP or Coppins Crossing (Traffic Management Plan Rev 1.0).
 - Standard Operating Procedure Waste Transport – TIG SEQ SOP 1178.
- Chemicals at interim reservoirs are appropriately labelled and stored in a bunded area.
- Spill kits are kept on board the tankers.
- The aerator at SPS1 is operated as required, to aerate sewage to assist in minimising odour. Covers and valves are also left open for as short as time as possible.
- Valves around SPS1 are closed during pump outs to prevent any spills from entering stormwater system.
- Tankering is only undertaken between 7am and 6pm.
- Operations did not take place near known heritage items of areas of ecological significance.

3.3 Stage AB WRP

3.3.1 Pre-construction - Stage AB WRP

As per the mitigation measures prescribed in the environmental management plans appended to the CEMP, the following environmental controls at Stage AB WRP were implemented and/or remained in place during the reporting period as part of the pre-construction works:

- Establishment of site fencing.
- Environmental controls – swale drains, sediment pond, silt fencing.
- Stripping and stockpiling topsoil.

3.3.2 Construction – Stage AB WRP

As per the mitigation measures prescribed in the environmental management plans appended to the CEMP, the following environmental controls at Stage AB WRP were implemented and/or remained in place during the reporting period:

- Installation and maintenance of erosion and sediment controls as outlined in the Erosion and Sediment Control Plan, including shaping swales and stockpile maintenance, and water testing (turbidity) after rainfall events.
- Appropriate storage of chemicals and spill kits and bunding of sub-contractor vehicles that have containers of oils.
- Fencing of clearing exclusion zones and erection of signage.
- Dust suppression through use of water tanker and other measures (including reuse of the water in the sediment basin water) in accordance with the Air Quality Management Plan to manage dust and vehicle exhaust emissions.

3.3.3 Construction – Stage B Network

As per the mitigation measures prescribed in the environmental management plans appended to the CEMP, the following environmental controls at Stage B Network were implemented and/or remained in place during the reporting period:

- Installation and maintenance of erosion and sediment controls as outlined in the Erosion and Sediment Control Plan, and water testing (turbidity) after rainfall events.
- Fencing of clearing exclusion zones and erection of signage.
- Appropriate storage of chemicals and spill kits and bunding of sub-contractor vehicles that have containers of oils.

4 Compliance with conditions

4.1 Compliance tracking

Appendix A includes a Compliance Register that assesses compliance for each of the applicable stages of works under or about to commence for the period from July to December 2014. The Compliance Register was populated by undertaking a review of audits, incident and monthly reports, the complaints database, the project website and discussions with GTPL personnel and their contractors.

4.2 Summary of non compliances

Five non-compliances have been identified from the compliance review, which are summarised in Table 4.1. They primarily relate to incorrect dewatering, conducting work outside designated work areas, potential impact on a registered heritage item and not providing all follow-up incident reports within the required 7 day timeframe in accordance with Incident Response Procedure.

Table 4.1 Non-compliances identified during July to December 2014

No	Condition	Comment
B2	Except as may be expressly provided by an Environment Protection Licence for the project, the Proponent shall comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> .	<p>Legal registers and the Soil and Water Management Plans (SWMPs) developed as part of the CEMPs for Stage A – Network (west/east), Stage B Network and Stage AB WRP and the OEMP for Stage A – Network outline this requirement to comply with the POEO Act.</p> <p>Three Category One incidents relating to incorrect dewatering and the potential to cause harm to the environment were recorded during this reporting period. Details on these incidents, follow up responses and further details regarding corrective actions/systems now implemented are provided in Section 5.2 of the Compliance Tracking Report.</p>
C1	Prior to the commencement of construction of the project, the Proponent shall clearly define work areas (including access trails) using the measures outlined in the CEMP under condition C19. All on-site construction movements shall be restricted to these areas to prevent uncontrolled or inadvertent access by vehicles or construction personnel.	<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the respective CEMPs which include maps with clearly defined work areas.</p> <p>There was one Category One incident during the reporting period that relates to work being conducted outside the work area, this resulted in the potential impact to a known heritage item.</p> <p>Follow up actions included all CEMP documentation was updated to clearly outline the construction footprint boundary and the extent of GTPL-owned land and the GTPL/Googong Foreshores boundary was surveyed and marked to visibly show GTPL-owned land.</p>
C4 (modified)	The Proponent shall salvage, through surface collection, identified artefacts at site GWTP2 prior to the commencement of construction at the water recycling plant site. Salvage should be carried out in accordance with the salvage methods described in Navin Officer Heritage Consultants Pty Ltd October 2012	<p>Stage A – Network (west) works do not directly impact items of Aboriginal or non-Aboriginal heritage. Compliance with this condition will be ongoing for Stage A – Network (west) works and has been managed through mitigation measures detailed in the Stage A – Network (west) Heritage Management Plan (HMP). No heritage incidents were recorded during the reporting period.</p> <p>Stage A – Network (east) works do not directly impact items of Aboriginal or non-Aboriginal heritage. Compliance with this condition will be ongoing for Stage A – Network (east) works and has been managed through mitigation measures detailed in the</p>

No	Condition	Comment
	<p>“Methodology: Googong Township Truck Water Main and Recycled Water System”.</p> <p>Salvaged artefacts should be relocated in accordance with the artefact relocation methods as described in Navin Officer Heritage Consultants Pty Ltd, 24 June 2010, “Back to Country Proposal to Reposition Salvaged Aboriginal Artefacts from the Googong New Town (Neighbourhood 1A) Development”.</p> <p>The Proponent shall not impact any other item of Aboriginal or non-Indigenous heritage significance identified in the EA.</p>	<p>Stage A – Network (east) HMP. There was one Category One incident relating to the location of a stockpile site directly impacting on a known heritage item identified in further studies post-EA (refer to Section 5.1 of this report).</p> <p>With regards to GWTP2 – Salvage of four artefacts from the GWTP2 site was undertaken on 7 May 2013 as part of the approved salvage, referred to in this condition, prior to the commencement of the construction of Stage AB WRP (where the GWTP2 site is situated). These artefacts will be relocated following completion of the WRP works. There are no other known items of Aboriginal or non-Indigenous heritage significance within the construction footprint for the Stage AB WRP. Measures to protect heritage are included in the HMP for Stage AB WRP.</p> <p>With regards to Stage B Network – An Aboriginal Heritage Impact Permit (AHIP) was obtained to salvage known heritage items within the Stage B Network boundary on 5 November 2014. This salvage occurred on Monday 10 November 2014.</p>
E1	<p>The Proponent shall notify the Director-General and any other relevant agencies of any incident associated with the project as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of becoming aware of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident.</p>	<p>There were five Category One incidents reported to DP&E in accordance with this condition (refer Section 5.0 of the Compliance Tracking Report for details).</p> <p>For one Category One incident, not all follow-up written incident reports were submitted within the required seven days in accordance with Incident Response Procedure outlined in Section 7.3 of the relevant CEMP.</p>
H1	<p>Generally, indigenous heritage on the site will be managed in accordance with Appendix G of the EA, including the four identified indigenous heritage sites. The avoidance, relocation or disturbance of any Aboriginal heritage sites and PADs will be in accordance with relevant guidelines and permits. An archaeologist and representatives of the local Aboriginal community will conduct any relocation works.</p>	<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the respective HMPs.</p> <p>There was one heritage related incident recorded during the reporting period for Stage A Network (east), refer to Section 5.1 of this report.</p>

5 Environmental incidents

5.1 Classification of environmental incidents

There are two categories of environmental incidents.

Category One incidents include:

- Unauthorised sediment discharge or fuel, oil or chemical spill leaving site where the pollution incident causes or threatens material harm to the environment or people (as per Part 5.7 of the *NSW Protection of the Environment Operations Act 1997* (POEO Act)).
- Unauthorised impact to threatened species and endangered ecological communities.
- Unauthorised impact to Aboriginal or non-Aboriginal heritage items, sites or relics.
- Carrying out of work without necessary approval/permit/licence.

Category 2 incidents include:

- Pollution incidents that can be cleaned up without material harm to the environment or people (as per Part 5.7 of the POEO Act).
- A non-conformance with the environmental management system that does not result in a Category One incident.

5.2 Category One incidents

There were five Category One incidents recorded during the reporting period that occurred at the following sites and are detailed below:

Site	Date	Description
Stage A Network (west)	24 July 2014	Sodium hypochlorite spill
Stage AB WRP (pre-construction)	10 September 2014	Sediment basin over-topped
Stage A Network (east)	24 November 2014	Bulk water DN1800 connection stockpile site location
Stage AB WRP	6 December 2014	Sediment basin overtop
Stage B Network	8 December 2014	Sediment controls failure

5.2.1 Stage A Network (west) – sodium hypochlorite spill

Description of incident

On 24 July 2014, an electrician (sub-contracted to Woden Contractors) was carrying out work in the chlorine dosing shed at the interim reservoirs. During the works, a ladder that was leaning against a storage tank containing sodium hypochlorite fell over, striking and breaking an outlet pipe at the base of the tank. This resulted in approximately 900L of sodium hypochlorite (concentration 12.5%) to spill out of the pipe and into the concrete containment bunding.

Site personnel present when the incident occurred immediately pressed the emergency stop for the equipment in the dosing shed (which was dosing into the live potable and recycled water mains at the time) and went to the control board to ensure the plant would not dose into the live mains.

Following this, the evacuation of all persons from the immediate area was undertaken and a shut down of the site due to possible air contamination. An exclusion zone of 50m from the spill was set up, and the fire brigade undertook an inspection.

The findings of the inspection were that the spill was being contained in the concrete bunding, with some sodium hypochlorite splashing off the bund wall and running down the other side into the bunded truck parking bay. However, the parking bay bund pit isolation valve was closed, resulting in no discharge to the surrounding environment.

Identified causes of the incident included inadequate protection of outlet pipes (there was no protective guard around the pipe that would have likely prevented the pipe from being impacted and inadequate identification of hazards (there was no toolbox talk undertaken prior to the works to communicate the site and job-specific hazards).

Follow up actions and response

The following actions and response occurred as a result of the incident:

- ERS Australia / Transpacific were engaged to manage the clean up of the interim reservoir site and the site was cleaned up on the afternoon of 24 July 2014, with gas testing of the chlorine dosing shed undertaken on 29 July 2014. The attached incident report contains detail of the clean up including waste transport certificate.
- Wodens held a toolbox talk in relation to the incident.
- Additional guards/cages were placed over the chemical tank outlet pipes in the chlorine dosing shed to prevent impacts from other items.
- GTPL directed Woden Contractors to undertake a review of the Pollution Incident Response Management Plan (PIRMP) as is required after a pollution incident.

DP&E and EPA involvement

The spill was reported to EPA and WorkCover NSW, due to the incident being a 'dangerous occurrence' and having the potential to harm the environment. The EPA inspected the site and confirmed that adequate control measures (including the use of bunding) were in place to prevent any harm to the environment. WorkCover NSW verbally released the site approximately two hours after the incident occurred and the spills response team commenced a clean-up of the site.

QCC, DP&E and the ER were also notified on the 24 July 2014.

5.2.2 Stage AB WRP (pre-construction) – sediment basin over-topped

Description of incident

Upon arrival at the WRP construction site on Wednesday 10 September 2014 the pre-construction contractors (Huon Contractors) observed evidence of overnight overflow of a sediment pond located within the WRP construction footprint, following 24.6 mm of rainfall the night before. Sediment-laden water was observed to have left the construction site and was contained in a downstream pond (former farm dam) located outside of the WRP construction footprint. At this stage it was assumed that GTPL owned the land that incorporated the former farm dam, and the incident was classified as Category 2.

The ER was notified on 10 September 2014 and completed an inspection on 12 September 2014.

An inspection of all erosion and sediment controls at Googong (including the WRP sediment pond), as well as the former farm dam, was also completed by QCC Environmental Compliance Officers on 11 September 2014 as they had received separate complaints of dirty water in the Montgomery Creek/Queanbeyan River system. However the QCC Environmental Compliance Officers were satisfied that water from the former farm dam had not entered the Montgomery Creek/Queanbeyan River system.

As part of follow up investigations and closer inspection of property boundaries it was subsequently determined on 18 September 2014, that the former farm dam where the sediment-laden water drained to is located outside GTPL-owned land and in the Googong Foreshores area. The incident was immediately re-classified as a Category One incident.

The cause of the incident was the heavy rainfall (24.6mm overnight) was experienced during the period leading up to the overtopping of the WRP sediment pond. The WRP sediment pond was empty immediately prior to the rainfall event, and had a capacity of 220m³. The rainfall was intense and occurred within a few hours overnight. The WRP sediment pond was observed to be full the following morning, however was not overflowing at the time of initial inspection (or any time subsequent).

Additionally, the sediment fencing installed downstream of the sediment pond inside the construction footprint failed to contain sediment from the overtopping dam onsite during the heavy rainfall. Secondary sediment fencing installed in the drainage line immediately downstream of the construction footprint also failed to adequately contain sediment.

Although subsequently raised as a Category One incident as sediment-laden water left the site, it was observed during inspections by Huon, the ER and QCC, that the sediment-laden water was contained. Therefore it is not considered that actual material harm of the environment occurred as a result of the incident as the sediment-laden water did not enter any waterways.

Follow up actions and response

The following actions and response occurred as a result of the incident:

- Huon Contractors immediately pumped the water in the WRP sediment pond to a larger dam in Googong Stage 4 for further treatment. Sediment was subsequently cleaned from this pond to maintain its capacity. The silt fences were checked to ensure their functionality.
- The water in the former farm dam was treated by diluting gypsum with water and spraying over the surface of the pond to meet the discharge water criteria provided in the CEMP.
- The WRP sediment pond capacity was increased to 323m³ following this incident.
- The Environmental Constraints Map, Appendix I of the CEMP (and Appendix B of the Pollution Incident Response Management Plan) was updated to include text outlining what activities cannot be undertaken in areas marked "Outside Project Area", such as discharge activities.
- John Holland Group (JHG, who took over control of the WRP site once construction commenced), were instructed to toolbox the updated Environmental Constraints Map with all onsite staff and visitors to explain the importance of avoiding any construction-related activity and impacts in the areas marked "Outside Project Area", and the Googong Foreshore area in particular.

DP&E and EPA involvement

The EPA and DP&E were advised of the incident. RPS, on behalf of GTPL, emailed the EPA (Sharon Peters/Julian Thompson) and DP&E (Belinda Scott) on 18 September 2014. They were provided with a copy of Huon's initial incident report on 19 September 2014.

RPS also notified Territory and Municipal Services (TAMS) (Mark Sweaney) of the environmental incident via phone and email on the 23 September 2014. TAMS is the manager of the property on which the former farm dam is located.

5.2.3 Stage A Network (east) – bulk water DN1800 connection stockpile site location

Description of incident

Guideline ACT required a stockpile/processing location for the bulk water connection cut out material. It was determined that there was not a safe location for a stockpile at the Bulk Water Pumping Site (BWPS) site, as it is on very steep terrain and therefore the stockpile was located away from the BWPS site and closer to the subdivision works.

The final stockpile site was located to the east of the WRP site, extending onto the Googong Foreshores area and only partially within GTPL-owned land.

As part of ongoing heritage management work, GTPL engaged Navin Officer Heritage Consultants (NOHC) to conduct a site visit on the 13 November 2014 to identify fence new sites correctly. It was observed by NOHC whilst on site on the 13 November 2014 that part of an Aboriginal heritage site (G1BAS1) was not fenced and material from the BWPS stockpile was within the site.

During the 15-20 November 2014, enquiries and an investigation was conducted by NOHC, including ongoing phone calls between NOHC and GTPL regarding which sites required fencing, and discussing the nature of the stockpile encroachment on site, whether the placement of the stockpile would be considered an impact to the site and the Aboriginal artefacts on the surface and what actions would likely be required for management of the site into the future.

On the 24 November 2014, the GTPL IWC team was notified of the matter and a teleconference was held on Wednesday 26 November 2014 to determine the level of impact and category of incident. During this teleconference the stockpile was flagged as a 'no-go' area. This teleconference was attended by GTPL, RPS, NOHC, ACTEW and Guideline.

Contributing factors to the incident includes likely confusion in the team due to the misinterpretation on-site of property boundaries in relation to the location of the physical fence line. When the stockpile was established, it was believed by all personnel that the stockpile site was located on GTPL-owned land, however further investigations indicated that the stockpile was only partially within GTPL-owned land and extended onto the Googong Foreshores area.

Additionally, it was concluded during subsequent investigations that the use of inconsistent map bases by GTPL, RPS, ACTEW and Guideline resulted in the location of the stockpile site being difficult to determine.

Follow up actions and response

The following actions and response occurred as a result of the incident:

- The stockpile site was flagged as a 'no-go' area and communicated to all teams.
- The stockpile material is to be removed and relocated, and site rehabilitated (in consultation with an archaeologist and OEH). Additionally, the entirety of the archaeological site is to be fenced to protect the site (in consultation with an archaeologist and OEH).
- An Aboriginal Site Impact Recording Form (ASIRF) was to be prepared and lodged with the Aboriginal Heritage Information Management System database.
- A consistency assessment has been undertaken retrospectively, to determine the acceptability of the placement of the stockpile in relation to the Part 3A Project Approval for the IWC Project. This involved completing an initial environmental review. This consistency assessment was submitted to DP&E on 23 December 2014.
- Stage A Network (east) CEMP documentation was updated to clearly outline the construction footprint boundary and the extent of GTPL-owned land.
- The GTPL/Googong Foreshores boundary was surveyed and marked to visibly show GTPL-owned land.
- The updated CMEP maps were toolboxed to all onsite staff and visitors to explain the importance of avoiding any construction-related activity and impacts in the areas outside of the construction footprint boundary, and the Googong Foreshore area in particular.

DP&E and OEH involvement

RPS (on behalf of GTPL) notified DP&E and OEH (via email correspondence) as precaution on 26 November 2014 informing them that the category of the incident was pending (due to ongoing consultation with OEH and NOHC regarding the significance of impact).

RPS (on behalf of GTPL) confirmed with DP&E and OEH (via email correspondence) that GTPL considers the incident to be a Category One incident on 28 November 2014 and has had ongoing correspondence with both agencies regarding this matter.

5.2.4 Stage AB WRP (construction) – sediment basin overtop

Description of incident

The sediment pond located within the WRP construction footprint began overtopping at about 3.00pm, Saturday 6 December 2014 following sustained rainfall throughout the day. The JHG Safety Manager, witnessed the event at about 3.30pm when it was safe to enter the site. The Site Superintendent, the ER, and GTPL were notified of the incident. GTPL reported the incident by phone at approximately 4.15pm to the EPA hotline and QCC duty officer. A precautionary notification e-mail was also sent by GTPL at 5:02pm that day to the EPA and DP&E.

The Site Superintendent and the ER attended the WRP construction site at about 4.30pm to inspect the WRP sediment pond and the sediment-laden water that was flowing offsite. The volume of water overtopping the sediment pond was considered to be relatively low by the ER. Sediment-laden water was observed to have left the construction site via a drainage line and had entered a downstream pond (farm dam) located within the Googong Foreshore area, managed by TAMS.

Follow up actions and response

On 8 December 2014, JHG commenced flocculating and testing the WRP sediment pond. Discharge of the pond commenced at 12.00pm that day. Water was discharged via a pump, lay-flat hose and sediment sock on to grass in the area directly adjacent (east) of the WRP sediment pond. The silt fences were checked to ensure their functionality.

The following ongoing actions will continue to be undertaken:

- Swale drains are maintained to minimise any inflows of water to job site.
- All erosion and sediment controls onsite are inspected/repared prior to forecast heavy rainfall events, in line with control measure SW6 in the Stage AB WRP Soil and Water Management Plan.
- GTPL discussed the development of a protocol with TAMS for the management of the adjacent farm dam within the Googong Foreshores. TAMS advised they would like to manage any issues related to the farm dam, on a case-by-case basis.

In addition, two recommendations from the ER were investigated and completed by JHG:

- JHG reviewed whether discharge of clean water from building roofs can be directed around the sediment pond – therefore freeing up further sediment pond capacity. This task was completed.
- JHG reviewed the impact of placing hay bales along the front fence at the low point to assist in slowing flows from the top of the catchment and reducing the pressure on the sediment pond during large flows. This task was completed.

DP&E and EPA involvement

The EPA and DP&E were advised that the incident was being classified as a Category One incident. RPS, on behalf of GTPL, emailed the EPA (Sharon Peters/Julian Thompson) and DP&E (Belinda Scott/Lisa Mitchell).

RPS, on behalf of GTPL, notified TAMS of the environmental incident via email. TAMS is the manager of the Googong Foreshores, on which the farm dam is located. Follow-up actions at the dam were undertaken in consultation with TAMS.

Additionally, RPS (on behalf of GTPL) notified the Commonwealth Department of Environment of the environmental incident via email.

5.2.5 Stage B Network – sediment control failure

Description of incident

The Project Manager arrived at the Stage B Network construction site at 7.00am on Monday 8 December 2014 and observed that sediment controls (earthen check dams) upslope of the Stage B Network construction site had allowed sediment-laden water to divert through the Stage B Network construction site. The upslope check dams were constructed by Huon, the contractor for the Googong Township subdivision works (operating under Part 4 approvals).

Significant rainfall was experienced during the period leading up to the failure of the erosion and sediment controls offsite and onsite of the Stage B Network construction area. In total, 54.6 mm of rain fell at the Googong WRP site on 6 December 2014.

The sediment controls for the Googong Township subdivision works were constructed and designed by the subdivision contractor in accordance with Managing Urban Stormwater: Soils and Construction Manual

(Landcom 2004) otherwise known as the Blue Book. The controls were designed to handle a 85th percentile rainfall depth and 5 day rainfall depth for Queanbeyan, which equates to 25.8mm.

Due to the volume of water directed through the damaged section of the upslope check dam on the subdivision site and onto the Stage B Network construction site, the sediment fencing installed on the downslope boundary of the Stage B Network construction site failed to contain sediment-laden water onsite during and following the heavy rainfall. (Refer to the third picture in the attached Incident Report).

Follow up actions and response

On 8 December 2014, Guideline ceased all contract works and commenced rectification works, ensuring that all protective measures and additional environmental controls were implemented within the Stage B Network construction area. The silt fences were checked and repaired to ensure their functionality. In addition, Guideline have installed new silt fencing and built additional earthen bunds inside the Stage B Network construction area, in the vicinity of where the sediment-laden water was diverted.

As mentioned above, the subdivision contractors dewatered their sediment ponds following flocculation and testing.

Guideline continued to inspect and repair/replace (as required) all erosion and sediment controls onsite prior to forecasted heavy rainfall events, in line with control measure SW6 in the Stage B Network Soil and Water Management Plan.

DP&E and EPA involvement

The incident was reported by phone to the ER, EPA hotline and QCC duty officer.

The EPA and DP&E were notified of the incident, and were advised that it was being classified as a Category One incident. RPS, on behalf of GTPL, emailed the EPA and DP&E.

5.3 Category Two incidents

There was one Category Two incidents recorded during the reporting period that occurred during the operation of Stage A Network on 15 November 2014.

5.3.1 Stage A Network operation – overflow of the potable reservoir

The potable reservoir was found to be overflowing (continuous stream) when attending site to carry out water testing. An investigation was instigated to determine why the pumps had not stop. It was found that the high level float was just about to operate, the float did operate and shut down the pumps while the investigation was progressing, it was determined that the new level sensor was not calibrated correctly as the HMI screen level reading was at 96% and the actual reservoir level was 110% (overflowing).

Follow up actions included lowering the high level float in the reservoir to stop the pumps at a slightly lower level and check the calibration of level sensor.

6 Monitoring

6.1 Introduction

Environmental monitoring is undertaken to measure the effectiveness of environmental controls and the implementation of management plans, and to address approval requirements. Environmental monitoring undertaken for various stages and management plans, is outlined in this section.

6.2 Noise monitoring

Noise monitoring of equipment during construction activities at the WRP was undertaken on 29 August 2014 to measure and determine the noise levels associated with the construction works for the WRP. Readings exceeded the construction noise management level of 40 dBA limit at two receivers, R11 and R12 by 5 dB and 2 dB respectively. This was due to earthworks associated with the WRP.

SLR undertook unattended noise surveys between 29 August and 10 September at two of the five sensitive receiver locations around the WRP site and undertook operator-attended measurements on Wednesday 29 August 2014 at all five receiver locations around the WRP site. The aim of this monitoring was to determine the noise levels associated with the construction works for the WRP to compare predictive modelled noise levels to actual noise levels and to assist in construction noise management.

6.3 Nest box installation and clearance monitoring

Biosis undertook nest box installation and clearance monitoring before pre-construction commenced at the Stage AB WRP site and for Stage A Network (east) BWPS site in June 2014. Their report was included in the respective Guideline ACT and Huon monthly reports with the conclusion that all clearance monitoring requirements pertaining to vegetation clearance for the WRP and BWPS site have been fully met. The Biosis report noted that possibly one of the hollow bearing trees (identified from the pre-clearing survey in 2013) had already been felled without supervision of an ecologist. The tree appeared to have been cut down by chainsaw, with the pieces left on site. However, the report notes it is unclear who removed the tree, or when it was removed.

Biosis also undertook a pre-clearing survey, installation of nest boxes and monitoring of the hollow bearing tree removal in November 2014 for the Stage B Network. On 12 November, two Biosis ecologists installed 40 nest boxes. Clearing of vegetation for the Stage B Network was undertaken on 25 November 2014, two trees were felled, the remaining hollow-bearing trees were still standing and the Biosis report would be updated following the clearing of these trees.

Additionally, Biosis undertook the monitoring of nest boxes previously installed for other components of the IWC Project. As per the requirements stipulated in the approved Flora and Fauna Management Plan (F&FMP) (Manidis Roberts 2012, informed by Biosis 2012), Biosis recommended a minimum of yearly monitoring/maintenance of nest boxes be undertaken to record usage and ensure their continued structural integrity and value to native fauna.

Two Biosis ecologists undertook monitoring of the installed nest boxes on 12 and 13 November 2014. In total, 71 nest boxes were monitored, comprising all of the boxes installed for the WRP(14) and Stage A Network (east) BWPS (32), and 25 of the 36 boxes installed for the rest of Stage A Network East. Due to time constraints, IWC Stage A Network West boxes were not checked during this monitoring event however these boxes have been monitored in the past (December, 2013).

During the monitoring event, the ecologists visited each box with a 4 metre ladder and examined the contents with a fibrescope. Simple repair/maintenance of unoccupied boxes was undertaken as required. The heavy duty boxes (all glider boxes and some of the possum boxes) were observed to be in the best condition, however all boxes are considered likely to continue to provide potential habitat for at least the next two years.

Of the 71 boxes monitored, 38 showed signs of previous use including chew marks, nesting material, and/or faeces. Of these boxes, 18 contained nesting material and nine were actively in use. During both monitoring events (2013 and 2014), none of the bat boxes showed any signs of occupation and no threatened fauna species were recorded. Interestingly, Sugar Gliders, Eastern Rosellas and Crimson Rosellas were recorded in 2013 and not 2014. The differences in findings between the two monitoring events are likely to be mostly attributable to timing of monitoring and seasonal changes in usage by different species.

6.4 Water monitoring at the Stage AB WRP site

JHG undertook water monitoring at the Stage AB WRP site on the following dates:

- 23 October 2014 – test the water reused on site for dust suppression. No treatment was required.
- 6 December 2014 – test the water quality in the sediment pond after rain event. No treatment was required and the water was discharged off site (via a pipeline, downstream from the Stage AB WRP sediment pond that traverses underneath the access road to the east of the Stage AB WRP site and discharges into the grassed drainage channel).
- 8 December 2014 – test the water quality in the sediment pond after rain event. The water was treated and the water was discharged off site after reaching the required criteria (via a pipeline, downstream from the Stage AB WRP sediment pond that traverses underneath the access road to the east of the Stage AB WRP site and discharges into the grassed drainage channel).
- 9 December 2014 - test the water quality in the sediment pond after rain event. The water was treated and the water was discharged off site after reaching the required criteria (via a pipeline, downstream from the Stage AB WRP sediment pond that traverses underneath the access road to the east of the Stage AB WRP site and discharges into the grassed drainage channel).
- 12 December 2014 - test the water quality in the sediment pond after rain event. The water was treated and the water was discharged off site after reaching the required criteria (via a pipeline, downstream from the Stage AB WRP sediment pond that traverses underneath the access road to the east of the Stage AB WRP site and discharges into the grassed drainage channel).

6.5 Operational monitoring

Monitoring has generally been undertaken as per Table 7 of the Stage A Network Operation Environment Management Plan (OEMP), the conditions of the Deeds of Agreement between GTPL and QCC/ACTEW and EPA Consignment Authorisations.

During the reporting period, fortnightly lab testing of the sewage from SPS1 was undertaken in addition to daily recordings of pH, Oxygen Reduction Potential and temperature. The level of the wet well at SPS1 is also recorded daily along with the number of tanker movements and volume of sewage transported.

Drinking water at the interim reservoirs has been monitored and managed in accordance with the Australian Drinking Water Guidelines (NHRMC & NRMCC, 2011) and sampling and analysis of the reservoirs has been undertaken as per QCC's Interim Drinking Water Quality Management Plan. Ecowise undertake daily testing of chlorine and pH at the reservoirs. Lab analysis of other quality parameters are taken weekly (pH, free chlorine residual and bacterial analysis) and monthly (heavy metal analysis).

6.6 Surface water, aquatic ecology and groundwater

A draft Water Management Plan (to meet CoA D8 of the Part 3A Project Approval) has been prepared in consultation with agencies, councils and the Bush on Boundary community group. It outlines the approach and methodology for the Surface Water and Aquatic Ecology Monitoring Program (Appendix A) and Groundwater Monitoring Program (Appendix B). CoA D8 and SoC WQ4 require that at least one year of baseline monitoring must be undertaken prior to the discharge of recycled water. Once this baseline data is obtained, trigger levels for the IWC Project and other operational details will be included in the Water Management Plan to be submitted to the Secretary for approval.

Baseline monitoring commenced for both programs in September 2013. SMEC has been engaged by GTPL to install and monitor groundwater bores during the baseline period. Quarterly testing of groundwater levels and water quality was undertaken in September 2014.

Sentinel has been engaged to undertake the surface water and aquatic ecology monitoring at nine sites along Googong Creek, Montgomery Creek and Queanbeyan River which involves monthly sampling of a range of water quality parameters and diatoms, with quarterly sampling of macrophytes, fish and habitat (ie September and December 2014) and continuous monitoring of some water parameters at two sites on the Queanbeyan River.

An application to install two water-monitoring stations (for water quality) along the Queanbeyan River was submitted to NSW Office of Water during the previous reporting period via a request for a Controlled Activity Approval (under the *Water Management Act 2000*). The application was approved 23 February 2014 and the installation of the two monitoring stations was completed by 7 March 2014. These monitoring stations have been operational since 8 March 2014.

6.7 Meteorological conditions

A weather station was installed near the WRP site in June 2013 and has been recording meteorological data since 22 July 2013. The weather station remains operational and is being managed by Sentinel on behalf of GTPL.

7 Inspections and audits

7.1 Inspections

7.1.1 Stage A Network (west) construction

Weekly inspections

The OH&S Representative from Woden Contractors undertook weekly site inspections that covered broader Stage A Network (west) activities but which also included environmental aspects.

Environmental Representative inspections

The ER continued to conduct monthly inspections in July 2014. The ER prepared reports that outlined observations and recommendations for Woden Contractors to implement, and also reviewed and approved Erosion and Sedimentation Control Plans. A review of the documentation has indicated that the ER had no actions during the reporting period.

In summary, there was one Category One incident relating to the sodium hypochlorite spill on the 24 July 2014. A review of the documentation has indicated, that aside from the Category One incidents, most of the ER's observations and actions during the reporting period were of a minor nature and were addressed by GTPL and the contractor.

7.1.2 Stage A Network (east) construction

Weekly inspections

Guideline ACT staff conducted weekly or fortnightly inspections of Stage A Network (east) throughout the reporting period.

Environmental Representative inspections

The ER continued to conduct fortnightly inspections of Stage A Network (east) throughout the reporting period. The ER prepared reports that outlined observations and recommendations for Guideline ACT to implement, and also reviewed and approved Erosion and Sedimentation Control Plans.

During the reporting period, the ER also advised on the installation/rectification of erosion and sediment controls, and made several recommendations regarding appropriate waste management (including litter and concrete), management and prevention of spills (including reporting and cleaning of spills, bunding), revegetation (eg sowing or re-sowing of seed), revisions of the Noise and Vibration Management Plan, communicating of environmental hazards and controls to workers, and fauna management, including the erection of fencing to prevent fauna from falling into trenches.

In summary, there was one Category One incident relating to the Bulk Water DN 1800 Connection stockpile site on the 24 November 2014. However a review of the documentation has indicated, that aside from the Category One incidents, most of the ER's observations and actions during the reporting period were of a minor nature and were addressed by GTPL and the contractor.

7.1.3 Stage A Network operation

During the reporting period Ecowise carried out daily inspections of SPS1 and the interim reservoirs which included:

- Performing routine maintenance and inspection of equipment and identifying any operational, environmental and safety issues/risks.
- Checking levels of SPS1 wet well and interim reservoirs and recording which reservoir was in operation.
- Checking odour levels (H₂S) with staff wearing personal H₂S detectors at all times at SPS1.

7.1.4 Stage AB WRP (pre-construction)

Weekly inspections

Huon staff conducted weekly or fortnightly inspections of Stage AB WRP pre-construction throughout the reporting period.

Environmental Representative inspections

The ER conducted fortnightly inspections of Stage AB WRP throughout the reporting period. The ER prepared reports that outlined observations and recommendations for Huon to implement primarily regarding follow up actions and documentation for the Category One incident.

In summary, there was one Category One incident relating to the sediment basin overtopping on 10 September 2014 (refer to Section 5.1). However a review of the documentation has indicated, that aside from the Category One incident, most of the ER's observations and actions during the reporting period were of a minor nature and were addressed by GTPL and the contractor.

7.1.5 Stage AB WRP (construction)

Weekly inspections

JHG staff conducted weekly or fortnightly inspections of Stage AB WRP throughout the reporting period.

Environmental Representative inspections

The ER conduct fortnightly inspections of Stage AB WRP throughout the reporting period. The ER prepared reports that outlined observations and recommendations for JHG to implement, and also reviewed and approved Erosion and Sedimentation Control Plans.

During the reporting period, the ER also advised on the installation/rectification of erosion and sediment controls, and made several recommendations regarding appropriate waste management (including litter and concrete), management and prevention of spills (including reporting and cleaning of spills, bunding), revegetation (eg sowing or re-sowing of seed), revisions of the Noise and Vibration Management Plan, communicating of environmental hazards and controls to workers, and fauna management, including the erection of fencing to prevent fauna from falling into trenches.

In summary, there was one Category One incident relating to the sediment basin overtopping on 6 December 2014 (refer to Section 5.1). However a review of the documentation has indicated, that aside from the Category One incident, most of the ER's observations and actions during the reporting period were of a minor nature and were addressed by GTPL and the contractor.

7.1.6 Stage B Network (construction)

Weekly inspections

Guideline ACT staff conducted weekly or fortnightly inspections of Stage B Network from December 2014 when the site was established.

Environmental Representative inspections

The ER conducted fortnightly inspections of Stage B Network from December when the site was established. The ER prepared reports that outlined observations and recommendations for Guideline ACT to implement, and also reviewed and approved Erosion and Sedimentation Control Plans.

During the reporting period, the ER also advised on the installation/rectification of erosion and sediment controls, including the construction boundary fencing and signage around the SPS2 site.

In summary, there was one Category One incident relating to the failure of sediment controls on 8 December 2014 (refer to Section 5.1). However a review of the documentation has indicated, that aside from the Category One incident, most of the ER's observations and actions during the reporting period were of a minor nature and were addressed by GTPL and the contractor.

7.2 Audits

NGH Environmental conducted an independent environmental audit of the IWC Project on 28 October 2014. It involved an opening meeting at the Club Googong located within the Township, site visit and inspection of Stage A Network (east) and Stage AB WRP, review of contractor's documentation, preliminary close-out meeting, review of GTPL documentation and final close-out meeting. The scope was focused on sediment controls at Stage A Network (east) and site establishment at the Stage AB WRP site given that construction works for Stage AB WRP had just commenced. A copy of the audit report was provided to DP&E and the ER on 20 November 2014.

There were four Corrective Action Requests (CARs) and two Observation of Concern (OOC) identified for the Stage A Network (east) and Stage AB WRP works which are summarised in Table 7.1.

Table 7.1 Findings and follow up actions from independent audit

No.	Section of report	Details	Follow up action
Correction Action Requests			
1	4.1	The sediment basin spillway was not lined with geofabric (Stage AB WRP).	JHG have installed geofabric at the sediment pond.
2	4.1	A 1000L container of flocculent was located in a position where it could easily be struck plant or vehicles (Stage AB WRP).	JHG have moved the container to a suitable location, away from the access road to avoid it being hit by vehicles.

No.	Section of report	Details	Follow up action
3	4.4	It was considered that more samples should be tested for a period of time after the 11:10am sample to ensure that the pH and turbidity had stabilised (Stage AB WRP).	JHG amended the Soil and Water Management Plan (Appendix B - Dewatering Procedure) to require a retest period of 30 minutes after stabilisation before discharge, to reflect this CAR requirement.
4	4.4	There was no evidence that the water quality as tested prior to flocculation (Stage AB WRP).	JHG considered there was no practical benefit to testing of water quality "prior" to flocculation of water in sediment basin. If visual inspection of water quality shows sediment in suspension/brown cloudy, the process to treat is commenced. Testing of the water would give the same result/indication.
Observation of Concern			
1	3.1.2	The SWMP did not require an after rain inspection to be undertaken or a record to be maintained. It is recommended that this should be implemented (Stage AB WRP).	JHG amended the WMP (Appendix A – Dewatering Procedure) to remove the requirement to test for EC.
2	4.4	The SWMP Appendix B included EC as a parameter for testing. EC was not being tested for. It is not clear why EC should be tested for as the activities on site are unlikely to affect conductivity. Either EC should be tested for, or this requirement be removed from the SWMP (Stage AB WRP).	Post-rain inspections will be conducted by JHG and if an action is required due to the rain then it will be recorded in JHG Site Diary.

8 Environmental complaints

There were no environmental complaints lodged relating to the construction/operation of Stage A Network, pre-construction and construction of Stage AB WRP or the construction of Stage Network.

9 Conclusion

This Compliance Tracking Report has been prepared for the reporting period that extended from July to December 2014 for the construction and operation of Stage A – Network (west/east), the pre-construction and construction of Stage AB WRP, and the construction of Stage B Network.

As part of this review, five non-compliances against the IWC Project's CoA were identified.

The non-compliances related to:

- Incorrect dewatering at Stage AB WRP that had the potential to harm the environment.
- Conducting work outside designated work areas relating to Stage A Network (east), work which led to the potential impact on a registered indigenous heritage item.
- Not providing all follow-up incident reports within the required 7 day timeframe in accordance with Incident Response Procedure.

Following the dewatering incident at the WRP, a number of actions were carried out (refer Section 5.1). In addition JHG directed discharge of clean water from building roofs around the sediment pond therefore freeing up further sediment pond capacity. Hay bales were also installed along the low point to assist in slowing flows from the top of the catchment and reducing the pressure on the sediment pond during high flows.

For the Stage A Network (east) Bulk Water Connection stockpile site location, a number of actions were raised in the Root Cause Analysis Report to remove and relocate the stockpile site in consultation with an archaeologist and OEH (refer Section 5.1), these actions are currently being addressed. Additional improvements include updating all Googong Township IWC Project CEMP documentation to clearly outline the construction footprint of each site and to clearly show the extent of GTPL-owned land. Also, the GTPL/Googong Foreshores boundary has been surveyed and marked to visibly show the extent of GTPL-owned land.

In regards to Incident Response timeframes for all Googong Township IWC Project components, the importance of complying with the required timeframes by the procedure has now been communicated to all staff through toolbox talks.

The next reporting period (January to June 2015) is likely to include the following activities: construction of Stage A Network (east), Stage AB WRP, construction of Stage B Network and operation of Stage A Network.

Appendix A

Compliance Tracking Register

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion date	Comment	Verification
1.1	The Proponent shall carry out all related projects generally in accordance with the: (a) Major Project Application 08_0236, (b) EA, (c) Submissions Report, and (d) the terms of this approval.	GTPL	Open	Compliant		Works undertaken during the reporting period have been carried out in accordance with this condition. Two consistency assessments were submitted for Stage 1 of the IWC Project. One modification (Mod 3) was submitted by GTPL to DP&E and DotE during the reporting period (and approved on 28 October 2014 and 2 September respectively). Refer Section 2.4 and 2.5 of the Compliance Tracking Report for more information.	Refer attached 'DotE_2011-5829 sgd letter' and 'DP&E Mod 3 and rev5 PTWL PMP 281014'.
1.2	In the event of an inconsistency between: (a) this Concept Plan approval and any document listed in 1.1(a) to 1.1(c) inclusive, this Concept Plan approval shall prevail to the extent of the inconsistency, and (b) any documents listed in 1.1(a) to 1.1(c) inclusive, the most recent document shall prevail to the extent of the inconsistency.	N/A	N/A	N/A	N/A	Noted.	
1.3	If there is any inconsistency between this Concept Plan approval and any related project approvals, this Concept Plan approval shall prevail to the extent of the inconsistency.	N/A	N/A	N/A	N/A	Noted.	
1.4	The Proponent shall comply with any reasonable requirements(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 Concept Plan approval or any related project approvals, and (b) the implementation of any actions or measures contained in these reports, plans or correspondence.	GTPL and contractor	Open	Compliant		Works undertaken during the reporting period have been carried out in accordance with this condition. No requirements were issued by the Director-General during the reporting period.	
1.5	To avoid any doubt, this Concept Plan approval does not permit the construction or operation of any projects associated with the Googong Township Water Cycle Project. Construction or operation cannot commence on any development associated with this Concept Plan unless a separate planning approval has been granted in relation to that project.	N/A	N/A	N/A	N/A	Noted. A Project Approval is in place for Stage 1 of the IWC Project.	
1.6	The Proponent may, with the Director-General's agreement, elect to meet the conditions of approval of multiple projects associated with this Concept Plan in a single consolidated manner (including through a consolidated plan or other document). In this case, the Proponent shall clearly demonstrate how the requirements of each project approval as well as the requirements of this Concept Plan approval have been addressed in the consolidated plan or document.	N/A	N/A	N/A	N/A	Noted.	
2.1	Pursuant to section 75P(2)(c) of the EP&A Act, the following environmental assessment requirements apply with respect to any future development that is subject to Part 4 or Part 5 of the EP&A Act (which are not exempt or complying development), for the subsequent project stages: (a) a detailed project description, including the design and location of ancillary infrastructure (including access roads and temporary construction compounds) and its relationship to the approved concept and approved project stages, (b) an assessment of relevant statutory matters including land zoning, permissibility and consistency with the objects of the EP&A Act, (c) a demonstration that the project is consistent with the requirements of this	N/A	N/A	N/A	N/A	Condition not applicable to current works. This condition will be met during the development phase of future projects beyond Stage 1.	

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	<p>Concept Plan approval and generally consistent with the scope and intent of the Concept Plan and environmental impacts outlined in the documents under condition 1.1 of this approval,</p> <p>(d) a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment,</p> <p>(e) a description of the measures that would be implemented to avoid, minimise and, if necessary, offset the potential impacts of the project, and ensure that the project is in the public interest,</p> <p>(f) an assessment of the consistency of the potential impacts and proposed mitigation measures with the management plans approved under the Stage 1 Project and subsequent stages,</p> <p>(g) a detailed project-specific statement of commitments,</p> <p>(h) assessment of the following key issues considering all components of the project (including temporary construction facilities) and cumulative impacts from other projects associated with the Concept Plan:</p> <ul style="list-style-type: none"> ▪ Surface Water – including potential water quality impacts on local creeks and rivers and impacts on surface water flows, as a result of construction and operation of the project; ▪ Soils and Landscape – including potential soil contamination, erosion risks, irrigation and rehabilitation, ▪ Groundwater – including potential impacts on local recharge levels, contamination risks, groundwater mounding, isolated waterlogging of soils and impacts on groundwater quality, ▪ Flora and Fauna – including terrestrial riparian and aquatic, with accurate estimates of vegetation disturbance associated with the project, ▪ Heritage – both Aboriginal and non-Aboriginal, including an assessment of Aboriginal sites affected by the proposed development, their cultural value and the significance of these values for Aboriginal people, ▪ Human Health – including impacts arising from the application of recycled water and discharges of wastewater and recycled water, ▪ Waste Management – including the likely waste quantities and qualities generated during the construction (including spoil generation) and operation of the project, ▪ Hazards and Risk – including details of hazardous materials used or kept on the premises during the construction and operation phases of the project, ▪ Air Quality – including dust and odour impacts, ▪ Noise and Vibration – including construction and operation noise impacts in the context of planned urban development in the area, ▪ Visual Amenity – an assessment of the impact of the project on visual amenity, including future sensitive receptor areas, including residential, ▪ Traffic and Access – including details of transport routes to and from construction and operational sites and associated impacts to existing activities, including safety impact, 						

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	<p>(i) evidence of an appropriate level of consultation with (but not necessarily limited to) the following parties, including identification of the issues raised and how these have been addressed in the assessment:</p> <ul style="list-style-type: none"> ▪ Commonwealth DSEWPac, ▪ OEH (including its Heritage Branch), ▪ Department of Primary Industries (including the NSW Office of Water), ▪ Department of Trade & Investment, Regional Infrastructure & Services (including its Primary Industries Division), ▪ Roads and Traffic Authority, ▪ QCC, ▪ Palerang Council, ▪ relevant service providers; ▪ property owners and the local community, and <p>(j) the environmental assessment of the project must take into account relevant State Government guidelines, policies and plans,</p> <p>(k) the assessments of the subsequent project stages shall take into account, but not limited to the following guidelines, as relevant:</p> <ul style="list-style-type: none"> ▪ National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC 2000), ▪ National Water Quality Management Strategy – Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Natural Resource Management Ministerial Council, Environment Protection and Heritage Council and Australian Health Ministers' Conference, 2006); ▪ Environmental Guidelines: Use of Effluent by Irrigation (DEC, 2004), ▪ NSW Industrial Noise Policy (EPA, 2000), ▪ Interim Construction Noise Guidelines (DECC, 2009), ▪ Environmental Noise Management – Assessing Vibration: a Technical Guideline (DECC, 2006), ▪ Environment Criteria for Road Traffic Noise (EPA, 1999), ▪ Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC, 2005), ▪ Assessment and Management of Odour from Stationary Sources in NSW (DEC, 2006), ▪ Technical Notes: Assessment and Management of Odour from Stationary Sources in NSW (DEC, 2006). 						
3.1	Subject to confidentiality, the Proponent shall make all documents required under this approval available for public inspection on request.	GTPL	Open	Compliant		No requests were made to GTPL during the reporting period.	
3.2	Prior to the commencement of construction of any projects associated with this Concept Plan approval, 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. The Proponent shall publish and maintain up-to-date information on this website or dedicated pages including, but not necessarily limited to:	GTPL	Open	Compliant	26-Oct-12	GTPL has established a website for Googong Township Integrated Water Cycle Project. The website provides access to electronic information associated with the works.	http://compliance.googong.net/
	(a) the status of the project;	GTPL	Open	Compliant		GTPL has established a website which provides details on the status of the Stage 1 project.	As above.

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	(b) a copy of this approval and any future project approvals and modifications to these approvals;	GTPL	Open	Compliant		GTPL has established a website that provides copies of the Concept and Project Approval issued under the EP&A Act for MP 08_0236, and approvals for Modification 1 and Modification 2, and Modification 3.	http://compliance.googong.net/iwc/project-approvals.php
	(c) a copy of each relevant environmental approval, licence or permit required and obtained in relation to the project;	GTPL	Open	Compliant		<p>In addition to the Concept and Project Approvals, the website also has copies of the EPBC Act approval, Environment Protection Licence (EPL) for construction work, Section 138 certificates and construction/occupation certificates issued to date for Stage A Network, Stage B Network, and Stage AB WRP.</p> <p>Two approvals for water monitoring activities associated with the Water Management Plan have been issued: groundwater licence (under the Water Act 1912) and a Controlled Activity Approval (under the Water Management Act 2000). These are also available on the website.</p> <p>During the reporting period a Section 138 Certificate was obtained for the Stage AB WRP early works, for a temporary management plan approval for intersection works (at the WRP entrance and Googong Road).</p> <p>For Stage AB WRP, four construction certificates were obtained between 26 September 2014 and 17 December for construction of a bioreactor, administration and blower building, sludge dewatering plant and the chemical storage area. These documents are available on the IWC website together with the other approvals, licenses and certificates.</p> <p>Additionally, an Occupation Certificate was obtained for the Bulk Water Pump Station for Stage A Network (east), this is available on the website with the other approvals, licenses and certificates.</p>	http://compliance.googong.net/iwc/project-approvals.php
	(d) a copy of each approved plan, report, or monitoring program required by this approval and associated project approvals;	GTPL	Open	Compliant		The website provides copies of all currently approved management plans including the Community Information Plan, Pink-tailed Worm-lizard Protection and Management Plan (EPBC and EP&A Act), Googong Foreshores Interface Management Strategy (EPBC Act), Landscape Management Plans for Stage A Network, Stage B Network and Stage AB WRP, CEMPs for Stage A Network (east) and (west), Stage B Network and Stage AB WRP, and an OEMP for Stage A – Network (west/east).	http://compliance.googong.net/iwc/ http://compliance.googong.net/epbc/
	(e) a summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under this approval and associated project approvals;	GTPL	Open	Compliant		A summary of monitoring activities is provided on the website.	http://compliance.googong.net/iwc/monitoring-auditing-and-compliance.php
	(f) details of the outcomes of compliance reviews and audits of the project, to the satisfaction of the Director-General.	GTPL	Open	Compliant		During the reporting period an independent audit was undertaken on 28 October 2014, a summary of audits and reviews have are available on the website.	http://compliance.googong.net/iwc/monitoring-auditing-and-compliance.php

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A1 (modified)	The Proponent shall carry out the project generally in accordance with the: (a) Environmental Assessment (EA), (b) Statement of Commitments, (c) Googong Township Water Cycle Project Modification Assessment, prepared by Manidis Roberts and dated February 2013, and (d) conditions of this approval.	GTPL and contractor	Open	Compliant		Works undertaken during the reporting period have been carried out in accordance with this condition. Two consistency assessments were submitted for Stage 1 of the IWC Project. One modification (Mod 3) was submitted by GTPL to DP&E during the reporting period (and approved on 28 October 2014). Refer Section 2.4 and 2.5 of the Compliance Tracking Report for more information.	
A2	If there is any inconsistency between the documents in condition A1, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.	GTPL and contractor	Open	Compliant		Noted.	
A3	The Proponent shall comply with any reasonable requirement(s) of the Director-General arising from the Department's assessment of: (e) any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted in accordance with this approval, (f) the implementation of any actions or measures contained in these documents.	GTPL and contractor	Open	Compliant		Works undertaken during the reporting period have been carried out in accordance with this condition. No requirements were issued by the Director-General during the reporting period.	
A4	This project approval shall lapse five years after the date on which it is granted, unless works subject of this approval have commenced before that time.	GTPL	Open	Compliant	01-Jan-13	Construction of the IWC Project (Stage A – Network (west)) commenced in January 2013.	
A5	Construction of the project may be undertaken in discrete work packages or stages. Where that occurs, these conditions of approval need only be complied with to the extent that they are relevant to that discrete work package or stage. Prior to the commencement of relevant construction or operation activities, the Proponent shall submit a Staging Report to the Director-General which: (a) describes the stages, and (b) identifies the relevant conditions of approval for each stage and how these will be addressed across and between the stages of the project.	GTPL	Complete	Compliant	28-Aug-12	GTPL prepared a Staging Report to address this condition which was provided to the Director-General on 7 June 2012. The Staging Report describes the construction stages and details how relevant conditions of approval will be met for each stage. Compliance with the conditions of approval will be monitored and documented through the six monthly compliance report. DP&I advised on 28 August 2012 that the Staging Report met the relevant requirements of the conditions of approval. An update to the stages (namely Stage AB Water Recycling Plant (WRP) to be built at the same time instead of separate A/B stages) was provided to DP&I on 30 July 2013.	Refer attached 'DP&I Acceptance Staging Report Letter_28Aug2012.pdf'
A6	With the approval of the Director-General, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis.	GTPL	Open	Compliant		Noted.	
A7	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.	GTPL and contractor	Open	Compliant		In addition to the Concept and Project Approvals, GTPL or its contractors have obtained an EPBC Act approval, Environment Protection Licence (EPL) for construction work, along with Section 138 certificates (refer CoA C15) and construction and occupation certificates (refer CoA A12) for Stage A Network, Stage B Network and Stage AB WRP. Two approvals for water monitoring activities associated with the Water Management Plan have been issued: groundwater licence (under the <i>Water Act 1912</i>) and a Controlled Activity Approval (under the <i>Water Management Act 2000</i>).	http://compliance.googong.net/iwc/approvals-licences-and-permits.php

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	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.					A copy of the relevant approvals are kept at the site offices for Stage A – Network (west), Stage A – Network (east), Stage B Network, Stage AB WRP and the relevant offices/depots of GTPL, Queanbeyan City Council (QCC), ACTEW for the operation of Stage A Network.	
A8	The Proponent shall ensure that employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.	GTPL and contractor	Open	Compliant		Competence, training and awareness requirements are detailed in Section 5 of the Construction Environmental Management Plans (CEMPs) for Stage A – Network (west/east), Stage B Network and Stage AB WRP. Regular toolbox talks are undertaken to provide information on responsibilities to employees, contractors and sub-contractors. Competence, training and awareness requirements are detailed in Section 5 of the Operation Environmental Management Plan (OEMP) for Stage A – Network and will be implemented during the operation phase.	
A9	The Proponent shall be responsible for environmental impacts resulting from the actions of all persons that it invites onto the site, including contractors, sub-contractors and visitors.	GTPL	Open	Compliant		Noted.	
A10	Subject to confidentiality, the Proponent shall make all documents required under this approval available for public inspection on request.	GTPL	Open	Compliant		No requests have been made during the reporting period, however GTPL will make all documents required under this approval publicly available upon request. GTPL has established a website with copies of relevant documentation.	http://compliance.googong.net/
A11	The detailed design and construction of the project shall be undertaken in consultation with Councils and include consideration of Councils' requirements in relation, but not limited, to: (a) project staging, easements and certification, (b) site access, parking and servicing, (c) safety, security, facilities and amenities, (d) site and infrastructure maintenance, and (e) design and development specifications, including relevant Australian and Council codes, standards and specifications.	GTPL and contractor	Open	Compliant	01-Nov-12	As QCC is the ultimate operator for Stage A Network (west), Stage B Network and the Stage AB WRP, GTPL and QCC have worked closely throughout the design and construction stages to address the various elements raised in this condition. Also refer CoA A12 and construction certificates/S138 certificates that have been issued by QCC. QCC have also been heavily involved in the planning leading up to the construction of the Stage AB WRP including monthly Design Co-ordination Meetings and Steering Committee Meetings. QCC will have an approval role the WRP design as it progresses through the Section 60 (LG Act) approval to construct process with NSW Office of Water – refer attached. QCC also review each of the various management plans that are required to be prepared by the various Conditions of Approval, prior to the plans being submitted to DP&E. Palerang Council has not been involved in design of Stage A – Network (west), Stage B Network and Stage AB WRP as this work does not fall within their local government area.	Refer attached 'QCC response to A11_Network West_1Nov2012.pdf'
					02-May-14	GTPL has consulted with Palerang Council throughout the early planning phase of Stage A – Network (east). However as Palerang Council will not own or operate the Stage A – Network (east) infrastructure, they have advised GTPL that they do not request a formal review of design elements. GTPL has consulted with Palerang Council during development of the CEMP for Stage A – Network (east). An update was then provided to Palerang in early 2014 with	Refer attached 'Palerang Council A11 response_2012 and 2014.pdf'

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						<p>regards to the Bulk Water Connection (BWC) works at Stage A Network (east). Palerang had no issues with the BWC works.</p> <p>ACTEW (as the Principal and the future owner operator) were consulted during development of the Stage A – Network (east) CEMP. They are project managing the construction works and supervising the construction contractor (Guideline ACT).</p> <p>QCC has not been involved in detailed design of Stage A – Network (east) as this work does not fall within their local government area.</p>	
A12	<p>The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</p> <p>Notes:</p> <ul style="list-style-type: none"> Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works, and Part 8 of the EP&A Regulation sets out the requirements for the certification of the project. 	GTPL	Open	Compliant		<p>GTPL has applied for two construction certificates from QCC for Stage A – Network (west) works. This has included for the telemetry tower and ring beam structures for the interim reservoirs. The telemetry tower construction certificate was issued 28 August 2013. The reservoir construction certificate was issued 10 February 2014.</p> <p>ACTEW and Guideline applied for a construction certificate for the pumphouse at the Bulk Water Pumping Station (BWPS) as part of the Stage A – Network (east) works. It was issued 18 October 2013. An occupation certificate for the BWPS was issued on 14 July 2014.</p> <p>GTPL has applied for one construction certificate from QCC for Stage AB WRP works, for the proposed development of the Bioreactor (associated with the WRP). This was issued on 26 September 2014.</p>	http://compliance.googong.net/iwc/other-approvals.php
A13	The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the project.	GTPL and contractor	Open	Compliant		<p>GTPL has prepared CEMPs and management plans to manage risks to the environmental during construction for Stage A – Network (west/east) , Stage B Network and Stage AB WRP. Contractors and GTPL are responsible for their implementation.</p> <p>GTPL has prepared an OEMP for interim operations (ie operation of Stage A – Network prior to operation of the Stage AB WRP) to manage risks to the environmental during operation.</p>	

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A14	<p>Prior to the commencement of construction, the Proponent shall prepare and implement a Community Information Plan which sets out the community communication and consultation processes to be implemented during construction and operation of the project. The Plan shall be prepared in consultation with QCC and to the satisfaction of the Director-General, and include, but not be limited to:</p> <p>(a) procedures to inform the local community of planned investigations and construction activities, including blasting works (if any),</p> <p>(b) procedures to inform the relevant community of construction traffic routes and any potential disruptions to traffic flows and amenity impacts,</p> <p>(c) procedures to consult with local landowners with regard to construction traffic to ensure the safety of livestock and to limit disruption to livestock movements,</p> <p>(d) procedures to inform the community where work outside the construction hours specified in condition C7, in particular noisy activities, has been approved,</p> <p>(e) procedures to inform and consult with affected landowners to rehabilitate impacted land,</p> <p>(f) procedures to inform the community of operational activities, including results of monitoring undertaken in accordance with conditions D7 to D9, and</p> <p>(g) procedures to inform the community of their rights, including those relevant to the management of visual and noise amenity and the process for lodgement of complaints, as identified under this Approval.</p>	GTPL and contractor	Open	Compliant		<p>GTPL has prepared the Googong Township water cycle project – Stage 1 Community Information Plan (CIP) to address this condition. The CIP is Appendix A of the Community Engagement and Stakeholder Management Plan.</p> <p>The CIP was provided to the Director-General on 1 August 2012. QCC was also provided with a copy of the CIP for review and comment (refer attachment). DP&I advised on 21 September 2012 that the CIP met the relevant requirements of the CoA.</p> <p>The various actions prescribed in the CIP have been implemented during the reporting period.</p> <p>In addition to the CIP, GTPL has also prepared a Noise and Vibration Management Plan (NVMP) for each CEMP which details the procedure for Out of Hours Work (Attachment 1), including notification to the community.</p>	<p>Refer attached 'QCC comments Stg A Network Mgmt Plans (incl CIP)_9Aug2012.pdf'</p> <p>Refer attached 'DP&I CIP Endorsement_21Sep12.pdf'</p>
A15	<p>Prior to the commencement of construction, the Proponent shall ensure that the following are available for community complaints for the life of each project related to the subject concept plan approval (including construction and operation) or as otherwise agreed by the Director-General:</p> <p>(a) a 24-hour telephone number on which complaints about construction and operational activities at the site may be registered,</p> <p>(b) a postal address to which written complaints may be sent, and</p> <p>(c) an email address to which electronic complaints may be transmitted.</p>	GTPL	Complete	Compliant	26-Oct-12	<p>Details on how to contact GTPL during construction has been provided through targeted mail-outs to potentially affected residents, advertising in local papers, road side signage and the project website.</p> <p>GTPL has established a 24 hour toll-free community information line where complaints/enquiries can be made.</p> <p>GTPL has established a postal address to which written complaints can be sent.</p> <p>GTPL has established an email address to which electronic complaints can be sent.</p>	<p>http://compliance.googong.net/</p> <p>The phone number is: 1800 838 438</p> <p>Googong Integrated Water Cycle c/o CIC Australia PO Box 1000 Civic Square ACT 2608</p> <p>iwc@googong.net</p>

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	The telephone number, postal address and email address shall be advertised in a newspaper circulating in the area of the project, on at least one occasion prior to the commencement of construction; and at six-monthly intervals during construction and for a period of two years following commencement of operation of the project. These details shall also be provided on the Proponent's internet site required by condition 3.2 of the associated Concept Plan Approval. The telephone number, the postal address and the email address shall be displayed on a sign near the entrance to the construction site(s), in a position that is clearly visible to the public.	GTPL	Open	Compliant		During the reporting period, one advertisement providing a construction update was included in the Queanbeyan Age on 25 July 2014. The previous advertisement was posted 17 September 2014. Signage has been provided on fencing at the construction sites and contact information is available on the website.	Refer attached 'A15 CGOO IWC 14x2 QA Mono Press Ad 06.'
A16	The Proponent shall record details of all complaints received through the means listed in condition A15 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 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.	GTPL	Open	Compliant		The Complaints Management Procedure is included as Appendix B of the Community Engagement and Stakeholder Management Plan. GTPL has access to Consultation Manager software to record and manage complaints and a complaints register can be generated through the software. Complaints received during the reporting period are addressed in Section 8.0 of the Compliance Tracking Report. No requests have been made during the reporting period. GTPL will continue to make the complaints register available for inspection by the Director-General/Secretary upon request.	
A17	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 A16. Any subsequent detailed response or action is to be provided within two weeks, or as otherwise agreed by the complainant/Director-General.	GTPL and contractor	Open	Compliant		Complaints received during the reporting period are addressed in Section 8.0 of the Compliance Tracking Report. There were no complaints during the reporting period.	
A18	Prior to the commencement of construction, the Proponent shall develop and implement a Compliance Tracking Program, to track compliance with the requirements of this approval during the construction and operation of all project and shall include, but not necessarily be limited to: (a) provisions for periodic reporting of 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 operation commencement;	GTPL	Open	Compliant	04-Oct-12	GTPL has prepared a Compliance Tracking Program (CTP) to address this condition. This compliance tracking table assesses compliance of construction and operation of Stage A – Network, and the construction of Stage B Network and Stage AB WRP from July 2014 to December 2014. GTPL will continue to prepare six monthly reports to document compliance with the Minister's Conditions of Approval, Statement of Commitments and other approvals/licenses.	

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	(b) a program for independent environmental auditing in accordance with AS/NZ ISO 19011:2003 – Guidelines for Quality and/or Environmental Management Systems Auditing;					GTPL has prepared a CTP to address this condition, which requires independent audits to be undertaken every six months during construction. Refer to Section 2.3 of CTP for details of the independent audit undertaken 28 October 2014 by NGH Environmental refer Section 7.2 of the Compliance Tracking Report.	
	(c) procedures for rectifying any non-compliance identified during environmental auditing or review of compliance;					GTPL has prepared a CTP, which outlines procedures for rectifying non compliances. Refer to Section 2.4 of CTP. Findings of the independent audit in October 2014 were provided to ACTEW, Guideline and JHG who were responsible for addressing the findings and providing a response to GTPL. More information on how non-compliances identified in the audit are addressed in Table 2 of the Compliance Tracking Report.	
	(d) mechanisms for recording environmental incidents and actions taken in response to those incidents;					GTPL has prepared a CTP to address this condition. Refer to Section 2.5 of the CTP. Incident recording requirements are outlined in Section 7.2 of the various CEMPs and Section 7.2 of the OEMP for Stage A – Network. Contractors are required to develop and track incidents in an incident register. GTPL also maintain an overarching Environmental Incident and Non-Conformance Register for Stage 1 of the IWC Project.	
	(e) provisions for reporting environmental incidents to the Director-General during construction and operation, and					GTPL has prepared a CTP to address this condition. Refer to Section 2.6 of the CTP. Incident reporting requirements are outlined in Section 7.3 of various CEMPs and Section 7.3 of the OEMP for Stage A – Network. Incident reporting flowcharts have been issued to all contractors and are required to be posted up in the site office. There were five Category One incidents that occurred which were reported in accordance with this condition to DP&E. A detailed follow up response, including CEMP review was also provided. It is to be noted that for one Category One Incident (Stage AB WRP sediment basin overtop), not all follow-up written incident reports were submitted within the required 7 days in accordance with Incident Response Procedure outlined in Section 7.3 Of the respective CEMPs. The incident report was issued to all authorities on the 17 December 2014 (instead of the 15 December 2015).	
	(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.					CEMPs and management plans have been developed for Stage A – Network (west/east), Stage B Network and Stage AB WRP that detail the training and induction requirements for all personnel on site. Refer to Section 5 of the CEMPs. Section 4.2 of the OEMP highlights responsibilities for the different operators for Stage A – Network, specific training and induction requirements are listed in Section 5. Regular tool box talks have been undertaken during the reporting period, which have explained responsibilities for contractors, and sub-contractors working on Stage A – Network (west/east), Stage B Network and Stage AB WRP.	

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B1	The Proponent shall ensure that all the plant and equipment used on site is: (a) maintained in a proper and efficient condition, and (b) operated in a proper and efficient manner.	Contractor	Open	Compliant		Plant and equipment has been maintained in a proper condition during the reporting period through the implementation of the mitigation measures detailed in the respective stages Air Quality Management Plan (AQMP).	
B2	Except as may be expressly provided by an Environment Protection Licence for the project, the Proponent shall comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> .	Contractor	Open	Non compliant		Legal registers and the Soil and Water Management Plans (SWMPs) developed as part of the CEMPs for Stage A – Network (west/east), Stage B Network and Stage AB WRP and the OEMP for Stage A – Network outline this requirement to comply with the POEO Act. Three Category One incidents relating to incorrect dewatering and the potential to cause harm to the environment were recorded during this reporting period. Details on these incidents, follow up responses and further details regarding corrective actions/systems now implemented are provided in Section 5.2 of the Compliance Tracking Report.	
B3	The Proponent shall provide a compensatory water supply to any land owner whose water entitlements are adversely impacted (other than an impact that is negligible) as a result of the project, in accordance with the criteria established in the Water Management Plan in condition D8. The compensatory water supply measures shall provide an alternate water supply for the duration of the impact attributed to the project. The alternate water supply shall at least be of an equivalent quality and quantity to the affected supply and be provided within 24 hours of the loss being identified, or as otherwise agreed by the affected resident/land owner. If the Proponent is unable to provide an alternative supply of water, then it shall provide reasonable alternative compensation in consultation with the affected land owner. If the Proponent and the land owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.	GTPL	N/A	N/A	N/A	Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or pre-construction of Stage AB WRP. Condition is also not applicable to operation of Stage A – Network, as this stage does not include operation of the WRP and discharge of recycled water downstream. This condition will be met once the WRP and is operational through the implementation of the Water Management Plan (WMP) (as per CoA D8(b)).	
B4	Erosion and Sediment controls consistent with <i>Managing Urban Stormwater: Soils and Construction Manual</i> (Landcom 2004, or its latest version) are to be installed prior to the commencement of soil disturbance and maintained until such time as the disturbed area has been rehabilitated in accordance with the rehabilitation objectives in the CEMP.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network, and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages SWMPs. Erosion and Sediment Control Plans (ESCPs) have been prepared, updated and approved by the ER for all construction stages during the reporting period. Controls have been maintained and checked regularly throughout the reporting period. Additional maintenance and checks of erosion and sediment controls was completed as a follow up action to any incident during the reporting period.	
B5	The Proponent shall carry out rehabilitation progressively, and as soon as reasonably practicable following disturbance in accordance with Condition C20(e).	Contractor	Open	Compliant		Compliance with this condition has been managed through the mitigation measures detailed in the respective stages SWMPs and Landscape Management Plans (LMP). Replanting and reseeding activities of backfilled areas took place during the reporting period.	

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B6	The Proponent shall ensure no offensive odours are emitted from the project site, as defined under the <i>Protection of the Environment Operations Act 1997</i> .	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout all works and has been managed through the mitigation measures detailed in the respective stages AQMPs. There were no odour complaints made during the reporting period.	
B7	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 <i>Protection of the Environment Operations Act 1997</i> , if such a licence is required in relation to that waste.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout all works and has been managed through the mitigation measures detailed in the respective stages Waste and Resource Management Plans (WRMP). No waste incidents were recorded during the reporting period.	
B8	The Proponent shall maximise the reuse and/or recycling of waste materials generated on site, to minimise the need for treatment or disposal of those materials outside the site.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout all works and has been managed through the mitigation measures detailed in the respective stages WRMPs.	
B9	The Proponent shall ensure that all liquid and/or non-liquid waste generated by the project is assessed and classified in accordance with <i>Waste Classification Guidelines</i> (DECC 2008, or any future guideline that may supersede that document) and where removed from the site is only directed to a waste management facility lawfully permitted to accept those materials.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout all works and has been managed through the mitigation measures detailed in the respective stages WRMPs. No waste incidents were recorded during the reporting period.	
B10	The Proponent shall ensure that no green waste is burned on site during the life of the project.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout all works and has been managed through the mitigation measures detailed in the respective stages WRMPs. There were no recorded incidents of green waste being burnt on site during the reporting period.	
B11	The Proponent shall limit the clearing of native vegetation to the minimum extent practicable. Details regarding the procedures for clearing vegetation, minimising the extent of clearing and the extent and location of these reductions shall be included in the Flora and Fauna Management Plan prepared in accordance with condition C20.	Contractor	Open	Compliant		The design of Stage A – Network (west/east), Stage B and Stage AB WRP has considered the need to minimise clearing of native vegetation as far as possible. Compliance with this condition and prescribing limits for clearing for Stage A – Network (west/east), Stage B, and Stage AB WRP works has been managed in accordance with the mitigation measures detailed in the respective stages Flora and Fauna Management Plans (FFMP). There were no recorded incidents of excessive vegetation clearing or clearing of areas not designated for clearing during the reporting period.	
B12	All hollow bearing trees shall be retained to the greatest extent practicable. Where this is not feasible, trees containing hollows shall be inspected by a suitably qualified ecologist prior to disturbance, and where native fauna are located using the tree hollows, procedures shall be developed and implemented under the guidance of the qualified ecologist to minimise impacts on the native fauna. Details of actions to be taken and measures to monitor their effectiveness shall be included in the Flora and Fauna Management Plan.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west) works and has been managed through the mitigation measures detailed in the Stage A – Network (west) FFMP and the Hollow Relocation and Nest Box Strategy. All of the required 10 nest boxes were installed prior to construction and no additional clearing took place during the reporting period. Compliance with this condition is ongoing throughout Stage A – Network (east) works and has been managed through the mitigation measures detailed in the Stage A – Network (east) FFMP and the	

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						<p>Hollow Relocation and Nest Box Strategy. All of the required 36 nest boxes have been installed and no additional clearing took place during the reporting period. Biosis conducted monitoring of the nest boxes on 12 and 13 November 2014 where 25 of the 36 nest boxes were monitored.</p> <p>Compliance with this condition is ongoing throughout Stage AB WRP works and has been managed through the mitigation measures detailed in the Stage AB WRP FFMP and the Hollow Relocation and Nest Box Strategy. All of the required 14 nest boxes have been installed and no additional clearing took place during the reporting period. Biosis conducted monitoring of the nest boxes on 12 and 13 November 2014 where all 14 nest boxes were monitored. Note that during the monitoring, the Biosis ecologists observed that one of the hollow-bearing trees had already been felled, please refer to Section 6.3 of this report for further information.</p> <p>Compliance with this condition is ongoing throughout Stage B Network works and has been managed through the mitigation measures detailed in the Stage B Network FFMP and the Hollow Relocation and Nest Box Strategy. The required nest boxes (40 nest boxes) were installed on the 12 November 2014. A pre-clearance survey was undertaken on the 25 November 2014 and clearing of vegetation was undertaken on this day with a qualified and experienced ecologist was present to oversee the felling of trees. Two trees were felled and no additional clearing took place during the reporting period.</p>	

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B13	Where possible, the removal of trees which form potential habitat for the Speckled Warbler (<i>Chthonicola sagittata</i>) shall occur outside of the August to January period breeding season of the species. If clearing cannot be avoided during this time, the area must be inspected by a qualified ecologist prior to any disturbance to identify potential nesting sites. If a nesting site is observed and it contains young, the area must be retained for at least 3 weeks to allow the young to fledge.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout all works and has been managed through mitigation measures detailed in the respective stages FFMP. No clearing from potential habitat for the Speckled Warbler was undertaken during the reporting period.	
B14	The Proponent shall establish and maintain in perpetuity a dedicated area of land on the project site for the conservation of the Pink-tailed Legless Lizard (<i>Aprasia parapulchella</i>) as outlined in the plan prepared in accordance with condition D9 and shown in Appendix 2.	GTPL	Open	Compliant		GTPL has prepared a Pink-tailed Worm-lizard Protection and Management Plan to address this condition. The plan details the conservation boundary and measures to establish it in perpetuity. The Plan (Rev 3) was prepared in accordance with Condition of Approval D9, and was approved by DP&I on 15 August 2013. A revised Plan (Rev 4) was then approved by DP&E on 10 June 2014. The amendments related to the removal of sewerage infrastructure works within 50 metres of the conservation area as a trigger for Year 0 works. Works for Year 0 and establishment of the conservation area will now be triggered by future subdivision works as per the amended Plan. A revised Plan (Rev 5) was approved by DP&E on 28 October 2014 and DoE on the 2 September 2014. The amendment related to Project Modification 3 and included a change to the Pink-tailed Worm-Lizard conservation area boundary.	Refer attached 'DP&E Mod 3 and rev5 PTWL PMP 281014' and 'DotE_2011-5829 sgn letter'
B15	The Proponent shall store and handle all dangerous goods, as defined by the Australian Dangerous Goods Code, strictly in accordance with: (a) all relevant Australian Standards, (b) for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund, and (c) DECC's <i>Environment Protection Manual Technical Bulletin – Bunding and Spill Management</i> . In the event of an inconsistency between the requirements listed from (a) to (c) above, the most stringent requirement shall prevail to the extent of the inconsistency.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages Hazard, Risk and Safety Management Plans (HRSMP).	
B16	The Proponent shall prepare and implement a Landscape Management Plan for the project. The Plan shall be prepared in consultation with Councils and include, but not necessarily be limited to: (a) an identification of the project elements which may impact on the visual amenity of the area and potential sensitive receiver locations, including residents of the Googong Township urban development area, (b) measures to minimise and/or avoid visual amenity impacts to sensitive receiver locations, including: (i) landscape design, including a schedule of species to be used in landscaping and revegetation, (ii) built elements, including proposed treatments, finishes and materials of exposed surfaces (including colour specifications and samples);	GTPL	Open	Compliant		GTPL has prepared a Stage A – Network LMP to address the requirements of this condition. The LMP describes the landscape and rehabilitation measures to be applied to Stage A – Network. The Stage A Network LMP was provided to QCC and Palerang Council for comment. Comments have been addressed in the final LMP. The LMP was provided to the Director-General 22 October 2012, prior to the commencement of construction of those stages. GTPL has prepared a Stage AB WRP LMP to address the requirements of this condition. The LMP was provided to QCC for comment. Comments have been addressed in the final LMP. The LMP was provided to the DP&E on 4 September 2014, prior to the commencement of construction. DP&E accepted the Stage AB WRP LMP on 12 September 2014. GTPL has prepared a Stage B LMP to address the requirements of	Refer attached 'QCC & Palerang comments Stg A Ntwk LMP_Oct2012.pdf' and 'LMP WRP AB, Covering letter' and 'Landscape Management Plan WRP AB, DoPE acceptance, 19Sep14', and 'Stage B Network LMP DP&E cover letter', and 'DP&E Letter re Stage B Landscape Management Plan signed 21102014'.

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	(iii) lighting design, (c) details of the timing and progressive implementation the visual mitigation works, and					this condition. The LMP was provided to QCC for comment. Comments have been addressed in the final LMP. The LMP was provided to DP&E on 13 October 2014, prior to the commencement of construction. DP&E accepted the Stage B LMP on 21 October 2014.	
	(d) procedures and methods to monitor and maintain landscaped or rehabilitated areas. The Plan shall be prepared and submitted to the Director-General prior to construction, unless otherwise agreed by the Director-General.			Compliant		The reporting and monitoring aspects of the LMP had not been adequately implemented during the previous reporting period. However, all outstanding actions have been now been addressed and compliance with this condition is now ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works. Refer comments above for submission of plans to DP&E.	
B17	The Proponent shall: (a) take all practicable measures to mitigate off-site lighting impacts from the construction and operation of the project, and (b) ensure that all external lighting associated with the project complies with Australian Standard AS4282 – 1997 – Control of the Obtrusive Effects of Outdoor Lighting.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the respective stages HRSMPs. No night time works have taken place and as such lighting has not been required. Operation of Stage A Network includes the BWPS (Network east) and Interim Reservoirs and SPS1 (Network West). The BWPS and reservoirs are located well away from receivers and the pole mounted lights are only switched on at night when required. There is no additional lighting at SPS1 except for the existing street lights. The detailed design of the Stage AB WRP will consider operational lighting impacts.	
C1	Prior to the commencement of construction of the project, the Proponent shall clearly define work areas (including access trails) using the measures outlined in the CEMP under condition C19. All on-site construction movements shall be restricted to these areas to prevent uncontrolled or inadvertent access by vehicles or construction personnel.	GTPL and contractor	Open	Non compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the respective CEMPs which include maps with clearly defined work areas. There was one Category One incident during the reporting period that relates to work being conducted outside the work area, this resulted in the potential impact to a known heritage item. Follow up actions included all CEMP documentation was updated to clearly outline the construction footprint boundary and the extent of GTPL-owned land and the GTPL/Googong Foreshores boundary was surveyed and marked to visibly show GTPL-owned land.	
C2	Prior to commencing construction of the project, the Proponent shall investigate the presence and extent of any soil contamination on the site, including but not limited to the sites identified in the EA.	GTPL	Complete	Compliant	09-Aug-12	GTPL has investigated the presence and extent of potential soil contamination for Stage A – Network, Stage B Network and the Stage AB WRP area. A site survey was carried out by Geotechnique on 19 and 20 July 2012. No sites of potential contamination were identified.	

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C3	The Proponent shall ensure any areas affected by the project that are potentially contaminated are remediated prior to commencing construction in those areas. All remediation work shall be conducted in accordance with the requirements of the <i>Contaminated Land Management Act 1997</i> and <i>Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites</i> (EPA, 1997).	GTPL	Complete	Compliant		No areas of contamination were identified within the Stage A – Network (west/east), or Stage AB WRP sites prior to construction (refer CoA C2). Should areas of potential contamination be identified during construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP, the potential contamination is to be managed through the implementation of the mitigation measures detailed in the respective stages SWMPs.	Refer attached 'Geotechnique Contamination Assessment_7Aug2012.pdf'
C4 (modified)	The Proponent shall salvage, through surface collection, identified artefacts at site GWTP2 prior to the commencement of construction at the water recycling plant site. Salvage should be carried out in accordance with the salvage methods described in Navin Officer Heritage Consultants Pty Ltd October 2012 "Methodology: Googong Township Truck Water Main and Recycled Water System". Salvaged artefacts should be relocated in accordance with the artefact relocation methods as described in Navin Officer Heritage Consultants Pty Ltd, 24 June 2010, "Back to Country Proposal to Reposition Salvaged Aboriginal Artefacts from the Googong New Town (Neighbourhood 1A) Development". The Proponent shall not impact any other item of Aboriginal or non-Indigenous heritage significance identified in the EA.	GTPL	Open	Non-compliant		Stage A – Network (west) works do not directly impact items of Aboriginal or non-Aboriginal heritage. Compliance with this condition will be ongoing for Stage A – Network (west) works and has been managed through mitigation measures detailed in the Stage A – Network (west) Heritage Management Plan (HMP). No heritage incidents were recorded during the reporting period. Stage A – Network (east) works do not directly impact items of Aboriginal or non-Aboriginal heritage. Compliance with this condition will be ongoing for Stage A – Network (east) works and has been managed through mitigation measures detailed in the Stage A – Network (east) HMP. There was one Category One incident relating to the location of a stockpile site directly impacting on a known heritage item identified in further studies post-EA (refer to Section 5.1 of this report). With regards to GWTP2 – Salvage of four artefacts from the GWTP2 site was undertaken on 7 May 2013 as part of the approved salvage, referred to in this condition, prior to the commencement of the construction of Stage AB WRP (where the GWTP2 site is situated). These artefacts will be relocated following completion of the WRP works. There are no other known items of Aboriginal or non-Indigenous heritage significance within the construction footprint for the Stage AB WRP. Measures to protect heritage are included in the HMP for Stage AB WRP. With regards to Stage B Network – An Aboriginal Heritage Impact Permit (AHIP) was obtained to salvage known heritage items within the Stage B Network boundary on 5 November 2014. This salvage occurred on Monday 10 November 2014.	Refer attached 'Stage AB WRP GWTP2 Artefact Collection_10May2013.pdf', 'Googong1B AHIP C0000573 (3)' and email correspondence confirming Stage B Network salvage 'FW: Googong 1B salvage completed'.
C5	In the event of uncovering unidentified Aboriginal objects or relics, work shall cease immediately in the vicinity of the site and the event shall be reported immediately to OEH and the Department. Relevant works shall not recommence until written authorisation from the Director-General to proceed in those areas has been received.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages HMPs and unexpected finds procedures. No unexpected finds occurred during the reporting period.	
C6	If during the course of construction the Proponent becomes aware of any previously unidentified non-Indigenous heritage object(s), all works likely to affect the object(s) shall cease immediately and the Heritage Council of New South Wales and the Department shall be notified as soon as practicable in accordance with section 146 of the NSW <i>Heritage Act 1977</i> . Relevant works shall not recommence until written authorisation from the Director-General to proceed in those areas has been received.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages HMPs. No unexpected finds occurred during the reporting period. Further work identified additional heritage items in proximity to Stage 1 of the Project, all respective CEMPs and HMPs were updated to reflect these newly identified sites.	

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C7	<p>Subject to conditions C9 and C10, construction works that would generate audible noise at any sensitive receiver shall only be undertaken during the following hours:</p> <p>(a) 7:00 am to 6:00 pm, Mondays to Fridays, inclusive, (b) 8:00 am to 1:00 pm on Saturdays, and (c) at no time on Sundays or public holidays.</p> <p>Note: this condition does not apply in the event of a direction from police or other relevant authority for safety reasons.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works, and has been managed through the mitigation measures detailed in the respective stages Noise and Vibration Management Plans (NVMP).</p> <p>In regards to Stage A Network (east), two inaudible out of hours works applications were submitted to DP&E on the 24 September 2014 and the 9 October 2014.. These applications were approved by DP&E on the 27 September 2014 and 10 October 2014 respectively.</p> <p>Additionally, one audible out of hours works application was submitted to DP&E on 7 October 2014, this application was approved on 14 October 2014 as DP&E were satisfied that the noise associated with the planned cut-in works will be restricted to daylight hours and that the proposed mitigation measures would further reduce noise associated with trucks travelling along Googong Dam Road.</p>	Refer attached 'DP&E OOHW approval Stage A Network east'.
C8	<p>The hours of construction specified under condition C7 may be varied with the prior written approval of the Director-General. Any request to alter the hours of construction shall be:</p> <p>(a) considered on a case-by-case basis, (b) 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 (c) require that affected residential receivers are informed of the timing and duration of any construction activities approved under this condition at least 48 hours before that work commences.</p>	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works. Procedures for varying hours of construction are detailed in the respective stages NVMPs.</p> <p>In regards to Stage A Network (east), two inaudible out of hours works applications were submitted to DP&E on the 24 September 2014 and the 9 October 2014.. These applications were approved by DP&E on the 27 September 2014 and 10 October 2014 respectively.</p> <p>Additionally, one audible out of hours works application was submitted to DP&E on 7 October 2014, this application was approved on 14 October 2014 as DP&E were satisfied that the noise associated with the planned cut-in works will be restricted to daylight hours and that the proposed mitigation measures would further reduce noise associated with trucks travelling along Googong Dam Road. There were no construction-related noise complaints during the reporting period.</p>	Refer attached 'DP&E OOHW approval Stage A Network east'.

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C9	<p>Any work generating high noise that has impulsive, intermittent, low frequency or tonal characteristics, including jack hammering, line drilling, pile driving, rock hammering, rock breaking, saw cutting, sheet piling, vibratory rolling but excluding blasting, shall only be undertaken:</p> <p>(a) between the hours of 8.00 am and 6.00 pm Monday to Friday, (b) between the hours of 8.00 am and 1.00 pm Saturday, and (c) in continuous blocks of no more than three hours, with at least one hour respite between each block of work generating high noise impact, where the location of the work is likely to impact the same receivers; except as otherwise approved by the Director-General.</p> <p>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.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages NVMPs. There were no construction-related noise complaints during the reporting period.</p> <p>For Stage A Network (east), one audible out of hours works application was submitted to DP&E on 7 October 2014, this application was approved on 14 October 2014 as DP&E were satisfied that the noise associated with the planned cut-in works will be restricted to daylight hours and that the proposed mitigation measures would further reduce noise associated with trucks travelling along Googong Dam Road. There were no construction-related noise complaints during the reporting period.</p> <p>Blasting was required for Stage B Network on 17 December 2014 between 9.00am and 5.00pm. A blast plan was prepared and blasting notifications were issued to QCC and all residents on the 2 December 2014 (2 weeks prior to blasting activities).</p>	
C10	<p>Blasting associated with the construction of the project is only permitted during the following hours:</p> <p>(a) 9.00 am to 5.00 pm, Mondays to Fridays, inclusive, (b) 9.00 am to 1.00 pm on Saturdays, and (c) at no time on Sundays or public holidays.</p> <p>Where compelling safety reasons exist, the Director-General may permit blasting outside of these hours on a case-by-case basis where any request is accompanied by details of the nature and need for blasting outside the approved hours and the measures to be implemented to minimise impacts.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages NVMPs.</p> <p>Blasting was required for Stage B Network on 17 December 2014 between 9.00am and 5.00pm. A blast plan was prepared and blasting notifications were issued to QCC and all residents on the 2 December 2014 (2 weeks prior to blasting activities).</p>	
C11	<p>The Proponent shall implement all reasonable and feasible noise mitigation measures to minimise noise generated by construction of the project, consistent with the requirements of the <i>Interim Construction Noise Guidelines</i> (DECC, July 2009).</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages NVMPs. The plan has considered the requirements of the Interim Construction Noise Guidelines. No construction-related noise complaints were received during the reporting period.</p>	
C12	<p>The Proponent shall ensure that blasting and vibration resulting from construction of the project does not cause exceedances of the criteria in Table C1.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages NVMPs.</p>	
C13	<p>At least two weeks prior to commencing blasting activities, the Proponent shall notify Council and potentially affected landowners, including details of time, location and frequency of the blasting and providing a contact point for inquiries and complaints.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages NVMPs.</p> <p>Blasting was required for Stage B Network on 17 December 2014 between 9.00am and 5.00pm. A blast plan was prepared and blasting notifications were issued to QCC and all residents on the 2 December 2014 (2 weeks prior to commencing blasting activities).</p>	

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C14	Prior to the commencement of construction of the project, the Proponent shall assess the condition of roads and footpaths which may be potentially impacted by construction of the project (including over-mass or over-dimensional vehicles), in consultation with the relevant roads authorities.	GTPL	Complete	Compliant	29-Aug-12	A pre-construction dilapidation survey of Googong Dam Road (including of existing pavement, drainage, road furniture and line markings) was carried out by Brown Consulting on behalf of GTPL in August 2012. A copy of the report was issued to QCC (road authority), and can be made available upon request.	
C15	The Proponent shall: (a) ensure that any measures to restore roads as a result of the construction of the project, are undertaken in a timely manner, to the satisfaction of the relevant road authority and at the full expense of the Proponent;	GTPL and contractor	Open	Compliant		A pre-construction dilapidation survey of Googong Dam Road (including of existing pavement, drainage, road furniture and line markings) was carried out by Brown Consulting on behalf of GTPL in August 2012. A copy of the report was issued to QCC, and can be made available upon request. Partial reconstruction of some sections of road has been undertaken however complete restoration has not been completed as construction works are still under way. It is likely that major restoration works will be delayed until other stages of the IWC Project are also constructed (eg Stage AB WRP and subdivision works), but partial road restoration will continue as required. Road verges have been restored in accordance with the Stage A Network LMP.	
	(b) ensure that adequate signage is provided to inform road users of any change in traffic conditions resulting from construction works, and					Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and will be managed through mitigation measures detailed in the respective stages Traffic Management Protocols (TMP). No traffic/access complaints were received during the reporting period.	
	(c) undertake all roadworks in consultation with Councils and any relevant road authority.					Works during the reporting period have been undertaken in consultation with QCC. A temporary Section 138 Certificate was obtained for the Stage AB WRP early works for a temporary management plan approval for intersection works (at the WRP entrance and Googong Road). Existing Section 138 Certificates are available on the compliance website.	http://compliance.googong.net/iwc/approvals-licences-and-permits.php
C16	The Proponent shall: (a) implement best practice air quality management on site, including all reasonable and feasible measures to minimise off-site odour, fume and dust emissions generated by the project, (b) minimise any visible air pollution generated by the project, and (c) regularly assess the meteorological forecasting data, and relocate, modify and/or stop activities on site to ensure compliance with the relevant conditions of this approval.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages AQMPs. No air quality complaints were received during the reporting period.	
C17	Prior to the commencement of construction, or as otherwise agreed by the Director-General, the Proponent shall engage a suitably qualified and experienced Environmental Representative(s) whose appointment has been endorsed by the Director-General. The Environmental Representative(s) shall: (a) be independent of the design, construction and operation personnel,	GTPL	Complete	Compliant	21-Sep-12	Richard Sharp (Ecology and Heritage Partners) has been engaged as the Environmental Representative (ER) for Stage 1 and was appointed prior to construction commencing. The ER was endorsed by the Director-General on 21 September 2012. The ER is independent of the design, construction and operation personnel and is employed by NGH Environmental.	Refer attached 'DP&I Approval Indep Env Rep_21Sep12.pdf' and 'DP&E letter re change for employer for ER 170415'

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	<p>(b) oversee the implementation of all environmental management plans and monitoring programs required under this approval and advise the Proponent upon the achievement of all project environmental outcomes,</p> <p>(c) consider and advise the Proponent on its compliance obligations against all matters specified in the conditions of this approval and any other approval, permits and/or licences, and</p> <p>(d) have the authority and independence to:</p> <p>(i) recommend to the Proponent reasonable steps to be taken to avoid or minimise unintended or adverse environmental impacts, and</p> <p>(ii) 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 likely to be a significant risk of an adverse impact on the environment, until reasonable steps are implemented to avoid such impact.</p>					<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works. The roles and responsibilities of the ER are outlined in Section 4.1 of the relevant CEMPs. Section 8.1 of the CEMP outlines the ER's role for regular site inspections.</p> <p>For Stage A – Network (west/east), Stage B Network, and Stage AB WRP, the ER has undertaken fortnightly inspections and provided a copy of this report to DP&E, the contractor and to GTPL. A summary of the key issues identified in his inspections is included in Section 7.1 of the Compliance Tracking Report. The ER has also endorsed minor changes to the CEMPs.</p>	
C18	The Proponent shall act on all recommendations made by the Environmental Representative(s) as soon as practicable, unless otherwise agreed by the Director-General. If the Proponent chooses not to implement recommendations of the Environmental Representative(s), it shall provide written justification of the alternate course of action to the satisfaction of the Director-General within 7 days of receiving the recommendation from the Environmental Representative(s).	GTPL and contractor	Open	Compliant		The ER makes recommendations in each of his inspection reports for all relevant construction stages and these actions are then reviewed and closed out in the next inspection report, (if adequately addressed by contractor). All ER recommendations made during the reporting period have been implemented by GTPL or their contractors.	
C19	<p>Prior to the commencement of construction, 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 <i>Guideline for the Preparation of Environmental Management Plans</i> (DIPNR 2004, or its latest revision) and shall include, but not necessarily be limited to:</p> <p>(a) a description of all relevant activities to be undertaken on the site during construction, including stages of construction where relevant,</p> <p>(b) details of measures to clearly define work areas (including access trails) using a combination of posts, fencing or markers, and suitably marked up maps, as appropriate.</p> <p>(c) details of mitigation, management and rehabilitation measures specific to the site that would be implemented, including but not limited to the requirements identified in the documents referred to under condition A1,</p> <p>(d) statutory and other obligations that the Proponent is required to fulfill during construction including all relevant approvals, consultations and agreements required from authorities and other stakeholders, and key legislation and policies;</p>	GTPL	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p>	<p>A CEMP has been prepared for Stage A – Network (west) in accordance with this condition. The CEMP was prepared in consultation with a number of agencies and stakeholders. DP&I approved the CEMP on 18 October.</p> <p>A CEMP has been prepared for Stage A – Network (east) in accordance with this condition. The CEMP was prepared in consultation with a number of agencies and stakeholders, including the future operator (ACTEW). DP&I approved the CEMP on 5 December 2012.</p> <p>A CEMP has been prepared for Stage AB WRP in accordance with this condition. The CEMP was prepared in consultation with a number of agencies and stakeholders. DP&I approved the CEMP on 11 December 2013.</p> <p>A CEMP has been prepared for Stage B Network in accordance with this condition. The CEMP was prepared in consultation with a number of agencies and stakeholders. DP&E approved the CEMP on 27 August 2014.</p>	

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C19	<p>(e) a description of the roles and responsibilities for all relevant employees and contractors involved in the construction of the project,</p> <p>(f) a description of relevant training and induction provisions for ensuring that all employees, contractors and sub-contractors are aware of their environmental and compliance obligations under these conditions of approval,</p> <p>(g) measures to monitor and manage dust emissions, including dust generated by traffic on unsealed public roads and unsealed internal access tracks,</p> <p>(h) details of actions to be taken to address identified potential adverse environmental impacts,</p> <p>(i) 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,</p> <p>(j) a complaints handling procedure during construction, and</p> <p>(k) procedures for the update of the Construction Environmental Management Plan as necessary.</p>						
C19	<p>The CEMP shall be prepared in consultation with the relevant authorities and Councils, and submitted for the approval of the Director-General no later than one month prior to the commencement of any construction works associated with the project, or as otherwise agreed by the Director-General. Construction works shall not commence until written approval has been received from the Director-General.</p>			Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p>	<p>GTPL prepared the Stage A – Network (west) CEMP in consultation with the following stakeholders: QCC, Palerang Council, OEH, EPA, RMS, DSEWPaC.</p> <p>The CEMP was provided to DP&I for approval on 27 July 2012. The Director-General approved the CEMP on 18 October 2012.</p> <p>GTPL prepared the Stage A – Network (east) CEMP in consultation with the following stakeholders: QCC, Palerang Council, OEH, Environment Protection Authority, RMS, DSEWPaC.</p> <p>The CEMP was provided to DP&I for approval. The Director-General approved the CEMP on 5 December 2012. See correspondence attached.</p> <p>GTPL prepared the Stage AB WRP CEMP in consultation with the following stakeholders: QCC, OEH, Environment Protection Authority, RMS, DSEWPaC.</p> <p>The CEMP was provided to DP&I for approval. The Director-General approved the CEMP on 11 December 2013. See correspondence attached.</p> <p>GTPL prepared the Stage B Network CEMP in consultation with the following stakeholders: QCC, OEH, Environment Protection Authority, RMS, NSW Office of Water and DoE.</p> <p>The CEMP was provided to DP&E for approval. The Director approved the CEMP on 27 August 2014. See correspondence attached.</p>	<p>Refer attached 'DP&I Approval Stage A Network West CEMP_18Oct2012.pdf' and 'Stage A Network CEMP agency correspondence.pdf'</p> <p>Refer attached 'DP&I Approval Stage A Network East CEMP_5Dec2012.pdf' and 'Stage A Network CEMP agency correspondence.pdf'</p> <p>Refer attached 'DP&I Stage AB WRP CEMP approval_11Dec2013' and 'Stage AB WRP CEMP agency comments_2013 '</p> <p>Refer attached 'DP&E Letter approving CEMP Stage B Network 270814' and 'Stg B Network CEMP Agency Letters'.</p>

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C20	As part of the Construction Environmental Management Plan for the project, prepared under condition C19 of this approval, the Proponent shall prepare and implement the following: (a) a Soil and Water Management Plan to manage water quality impacts and to minimise soil erosion and the discharge of sediments and other pollutants to lands and/or waters during construction. The Plan shall be prepared in consultation with OEH and Councils and shall include, but not necessarily be limited to:	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) SWMP in consultation with the following stakeholders: QCC, EPA and OEH.	
	05-Dec-12				GTPL has prepared a Stage A – Network (east) SWMP in consultation with the following stakeholders: QCC, Palerang Council, EPA, and OEH.		
	11-Dec-13				GTPL has prepared a Stage AB WRP SWMP in consultation with the following stakeholders: QCC, NOW, EPA and OEH.		
	(i) detailed engineering designs for the recycled water discharge structure;			N/A		GTPL has prepared a Stage B Network SWMP in consultation with the following stakeholders: QCC, NOW, EPA and OEH.	
	(ii) detailed engineering designs and rehabilitation methodology for each category of watercourse crossing, (iii) a description of the quantity and source of all water supplies relating to construction, hydro-testing and operation, (iv) a description of any dewatering activities associated with groundwater interception and measures to minimise the impacts associated with dewatering activities, including the disposal or reuse of water, (v) details on potential occurrence of expansive soils and saline areas within the project site and management and mitigation measures, (vi) details of the measures to mitigate the risk of impacting the local groundwater recharge levels (such as the planning of construction works during dry periods and the employment of construction techniques which aim to shorten the time the trenches are left open), (vii) a description of measures to minimise soil erosion and the potential for the transport of sediment to downstream waters, including progressive rehabilitation, (viii) monitoring of impacts on water quality and soils;	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) SWMP in accordance with this condition.	
05-Dec-12	GTPL has prepared a Stage A – Network (east) SWMP in accordance with this condition.						
11-Dec-13	GTPL has prepared a Stage AB WRP SWMP in accordance with this condition.						
					27-Aug-14	GTPL has prepared a Stage B Network SWMP in accordance with this condition.	
C20	(b) a Hazards, Risk and Safety Management Plan to address: (i) the safety of construction workers in the event of a flood, bushfire and any other likely hazard or risk, (ii) the management of the risk of fuel spillages and associated activities, with respect to potential groundwater contamination, including an description of designated fuel distribution points, (iii) the safety of the public (such as bushwalkers) near the site during construction, such as installation of signage and fencing as necessary;	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) HRSMP in accordance with this condition.	
					05-Dec-12	GTPL has prepared a Stage A – Network (east) HRSMP in accordance with this condition.	
					11-Dec-13	GTPL has prepared a Stage AB WRP HRSMP in accordance with this condition.	
					27-Aug-14	GTPL has prepared a Stage B Network HRSMP in accordance with this condition.	

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C20	<p>(c) a Traffic Management Protocol to outline the management of traffic impacts that may occur during construction of the project. The Plan shall be developed in consultation with Councils, the RTA and any other relevant road authority and shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (i) details of traffic routes for heavy vehicles, including any necessary route or timing restriction for oversized loads, (ii) measures to verify the condition of roads used by construction vehicles prior to and following construction, (iii) details of how the construction of project infrastructure will be managed in proximity to local and regional roads and with respect to sensitive receivers located in close proximity to these roads (such as maintaining access to property) and any other concurrent works occurring in close proximity to the project, such as the Googong Dam Spillway Remediation Works, (iv) detailed consideration of measures to be employed to ensure traffic volumes and acoustic and amenity impacts along heavy vehicle routes are minimised, (v) details of requirements to restore roads used for the construction of the project, including Old Cooma Road and Googong Dam Road, and (vi) demonstration that all statutory responsibilities with regard to road traffic impacts have been complied with; 	GTPL and contractor	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p> <p>27-Aug-14</p>	<p>GTPL has prepared a Stage A – Network (west) TMP in consultation with the following stakeholders: QCC, and RMS.</p> <p>GTPL has prepared a Stage A – Network (east) TMP in consultation with the following stakeholders: QCC, Palerang Council, and RMS.</p> <p>GTPL has prepared a Stage AB WRP TMP in consultation with the following stakeholders: QCC, EPA and RMS.</p> <p>GTPL has prepared a Stage B Network TMP in consultation with the following stakeholders: QCC, EPA and RMS.</p>	
C20	<p>(d) a Noise and Vibration Management Plan to identify measures to monitor and manage noise and vibration and to identify all feasible and reasonable noise and vibration mitigation measures. The Plan shall be developed in consultation with OEH and QCC and include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (i) the identification all potentially affected sensitive receivers (such as future residents of the Googong township due to the undertaking of final works associated with the water recycling plant), and noise management levels, (ii) a review of the assumptions made in Appendix J of the EA to the final determined construction noise levels, (iii) details of the measures to avoid and/or mitigate the actual noise levels, including the noise mitigation measures identified under section 13.4.4 of the EA, (iv) an assessment, if blasting is proposed, to calculate the maximum instantaneous charge (MIC) able to be used in order to meet amenity-based ground vibration and overpressure criteria in condition C12, (v) details of the consultation process for noise mitigation measures with any affected sensitive receivers, and (vi) details of noise monitoring to be undertaken to manage potentially elevated noise levels; 	GTPL and contractor	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p> <p>27-Aug-14</p>	<p>GTPL has prepared a Stage A – Network (west) NVMP in accordance with this condition and in consultation with the following stakeholders: QCC and EPA.</p> <p>GTPL has prepared a Stage A – Network (east) NVMP in accordance with this condition and in consultation with the following stakeholders: QCC, Palerang Council and EPA.</p> <p>GTPL has prepared a Stage AB WRP NVMP in accordance with this condition and in consultation with the following stakeholders: QCC, EPA and the OEH.</p> <p>GTPL has prepared a Stage B Network NVMP in accordance with this condition and in consultation with the following stakeholders: QCC, EPA and the OEH.</p>	

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C20	<p>(e) a Flora and Fauna Management Plan to outline measures to protect, and minimise the loss of, terrestrial, riparian and aquatic native vegetation and native fauna habitat as a result of construction of the project. The Plan shall be prepared in consultation with OEH, DSEWPaC and QCC, and include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (i) procedures for pre-construction surveys to identify key flora and fauna features within and adjacent to the construction area, (ii) procedures to accurately determine the total area, type and condition of vegetation community to be cleared, (iii) plan/s showing terrestrial vegetation communities, important flora and fauna habitat areas, EECs, threatened species (Hoary Sunray <i>Leucochrysum albicans</i> var. <i>tricolor</i>, Speckled Warbler <i>Chthonicola sagittata</i> and Pink-tailed Legless Lizard <i>Aprasia parapulchella</i>), weeds and areas to be cleared. The plans shall also identify vegetation adjoining the site which contains important habitat areas and/or threatened species, populations or ecological communities, (iv) methods to avoid and manage potential impacts on flora and fauna species and their habitat which may be directly or indirectly affected by the project, such as location of fencing to exclude access to sensitive areas, procedures for vegetation clearing or soil removal/stockpiling and procedures for re-locating hollows or installing nesting boxes and managing weeds, (v) measures for conserving and reusing topsoil, (vi) procedures to be implemented for controlling weeds and feral pests, (vii) rehabilitation details and success criteria, (viii) a program for reporting on the effectiveness of flora and fauna management measures, and (ix) a procedure to review management methods where they are found to be ineffective; 		Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p> <p>27-Aug-14</p>	<p>GTPL has prepared a Stage A – Network (west) FFMP in consultation with the following stakeholders: QCC, OEH and Commonwealth Department of the Environment (DotE) (formerly DSEWPaC).</p> <p>GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following stakeholders: QCC, Palerang Council, OEH and DotE.</p> <p>GTPL has prepared a Stage AB WRP FFMP in consultation with the following stakeholders: QCC, OEH, EPA and DotE.</p> <p>GTPL has prepared a Stage B Network FFMP in consultation with the following stakeholders: QCC, OEH, EPA and DotE.</p>	
C20	<p>(f) a Heritage Management Plan to manage potential impacts on Aboriginal and non-Indigenous heritage items. The plan shall be prepared in consultation with OEH and include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (i) details of measures to be carried out to avoid impacts to known and potential Aboriginal sites and deposits, (ii) procedures for dealing with previously unidentified Aboriginal objects (excluding human remains), including: <ul style="list-style-type: none"> ▪ halting of works in the vicinity, ▪ assessment of the significance of the item(s) and determination of appropriate mitigation measures (including when works can recommence) by a qualified archaeologist in consultation with registered Aboriginal stakeholders; 	GTPL	Open	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p> <p>27-Aug-14</p>	<p>GTPL has prepared a Stage A – Network (west) HMP in accordance with this condition and in consultation with the OEH and QCC.</p> <p>GTPL has prepared a Stage A – Network (east) HMP in accordance with this condition and in consultation with the OEH, QCC and Palerang Council.</p> <p>GTPL has prepared a Stage AB WRP HMP in accordance with this condition and in consultation with the OEH, EPA and QCC.</p> <p>GTPL has prepared a Stage B Network HMP in accordance with this condition and in consultation with the OEH, EPA and QCC.</p>	

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	<ul style="list-style-type: none"> ▪ assessment of the consistency of any new Aboriginal heritage impacts against the approved impacts of the project; and – registering of the new site/s in the OEH AHIMS register, (iii) procedures for dealing with human remains (including halting of works in the vicinity and notification of the NSW Police, OEH and registered Aboriginal stakeholders and not re-commencing any works in the area unless authorised by OEH and the NSW Police), and (iv) Aboriginal cultural heritage induction processes for construction personnel and procedures for ongoing Aboriginal consultation and involvement. 						
D1	<p>Noise emitted from the operation of project-related infrastructure shall not exceed 35 dB(A) (LAeq (15min)) at any residence on privately-owned land.</p> <p><i>Note: 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.</i></p>	GTPL	Open	Compliant		QCC and GTPL commenced interim operations of the Interim Reservoirs and SPS1 in February 2014. No noise complaints have been received regarding the interim operation of project related infrastructure.	
D2	Water provided as drinking water to service the Googong Township, as outlined under the documents referred to in condition A1, shall comply with the <i>Australian Drinking Water Guidelines 2004</i> .	QCC	N/A	Compliant		QCC and GTPL commenced operations of the Interim Reservoirs in February 2014. A range of monitoring and management measures are in place to ensure potable water is supplied in accordance with the guidelines.	
D3	Ongoing management and monitoring of the supply of the drinking water shall form part of the NSW Drinking Water Monitoring Program.	QCC	N/A	Compliant		QCC has prepared a Interim Drinking Water Quality Management Plan to meet this condition. GTPL, QCC and their subcontractors have been collecting a range of water quality data throughout the monitoring period.	
D4	Water provided as recycled water to service the Googong Township, as outlined under the documents referred to in condition A1, shall comply with <i>National Water Quality Management Strategy – Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Natural Resource Management Ministerial Council, Environment Protection and Heritage Council and Australian Health Ministers' Conference, 2006)</i> .	GTPL and QCC	N/A	N/A	N/A	No recycled water has been generated or discharged during the reporting period. However QCC has prepared a Recycled Water Quality Management Plan to support their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP. The detailed design of the Stage AB WRP is being undertaken so that the WRP can operate to meet the requirements of this plan and the D5 effluent criteria.	
D5	The recycled water discharged to the environment shall not exceed the water quality parameters identified in Table D1 below. If the results of water quality monitoring undertaken in accordance with the Water Management Plan in condition D8 indicates that the downstream ambient water quality criteria of the Queanbeyan River is exceeded as a result of the project, then the project shall be adjusted to reduce the concentration of the relevant parameters in the recycled water discharged to the environment.	GTPL and QCC	N/A	N/A	N/A	Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. No recycled water has been generated or discharged during the reporting period. The WRP will be designed so that it can treat sewage to meet the D5 effluent criteria. The OEMP for the Stage AB WRP and WMP will be the key documents to manage compliance of this condition.	
D6	No recycled water shall be discharged to the environment until at least 12 months of baseline data for the receiving waterways has been obtained and the flow release protocol has been established, in accordance with the approved Water Management Plan in condition D8.	GTPL and QCC	N/A Open	N/A	N/A	Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. No recycled water has been generated or discharged during the reporting period. Baseline monitoring in accordance with the draft WMP commenced in September 2013. Sentinel and SMEC have been engaged by GTPL to collect the data required in the monitoring programs.	

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D7	<p>The Proponent shall prepare and implement an Operation Environmental Management Plan (OEMP) for the project, in accordance with <i>Guideline for the Preparation of Environmental Management Plans</i> (DIPNR, 2004) or its latest version. The Plan shall be prepared in consultation with Councils, OEH and NOW and include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) identification of all statutory and other obligations that the Proponent is required to fulfill in relation to the operation of the development, including all consents, licences, approvals and consultations, (b) specific consideration of relevant measures to address any requirements identified in the documents referred to under condition A1, (c) a management organisational chart identifying the roles and responsibilities for all relevant employees involved in the operation of the project, (d) overall environmental policies and principles to be applied to the operation of the project, (e) management policies to ensure that environmental performance goals are met and to comply with the conditions of this approval, (f) standards and performance measures to be applied to the project, and means by which environmental performance can be periodically reviewed and improved (where appropriate), including what actions will be taken to address identified potential adverse environmental impacts. In particular, the following environmental performance issues shall be addressed in the Plan: <ul style="list-style-type: none"> (i) detailed contingency procedures for dealing with: power failures; sewer overflow following failures at the sewage pumping stations and/or during extended periods of wet weather flows; and structural failures in the sewage and recycled water transfer pipeline infrastructure, (ii) noise emissions including measures for regular performance monitoring of noise generated by the project and measures to proactively respond to and deal with noise complaints, (iii) air quality impacts, particularly odour, (iv) operational traffic impacts, particularly during maintenance, and procedures to restore any damage attributable to the project during the operation phase; 	GTPL, contractors, QCC and ACTEW		Compliant	14-Oct-13	<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP.</p> <p>GTPL has prepared an OEMP for the operation of Stage A – Network in accordance with this condition that was submitted to the relevant agencies for comment during 2013. The OEMP was approved by DP&I on 14 October 2013. Operations then commenced in February 2014 and in addition to the OEMP, a number of Deed of Agreements are also in place between QCC and ACTEW to help manage interim operations. No noise complaints were received during the reporting period.</p>	Refer attached 'Stg A Network OEMP consultation_2013'
	(v) mosquito control and the potential for algal blooms;			N/A		Mosquito risks occur as a result of the operation of the WRP and introduction of recycled water to the environment – as such it is not applicable to the operation of Stage A Network, but will be addressed in future OEMP/s for the IWC Project.	

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	<p>(vi) impacts of operational activities on the Googong Dam and foreshores area, particularly water quality,</p> <p>(vii) hazard and safety and emergency management measures including measures to prevent and control bushfires,</p> <p>(g) procedures for the periodic review and update of the Operation Environmental Management Plan as necessary,</p> <p>(h) the Management Plans listed under conditions D8 and D9, and</p> <p>(i) the environmental monitoring requirements outlined under this approval.</p>			Compliant			
	The OEMP 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 activities shall not commence until written approval has been received from the Director-General.				14-Oct-13	Operations commenced on 14 February following approval of the Stage A Network OEMP in October 2013.	Refer attached 'DP&I Approval Stage A Network OEMP_14Oct2013'
D8	The Proponent shall prepare and implement a Water Management Plan for the project to manage potential impacts on surface water and groundwater systems during operation of the project. The plan must be prepared in accordance with <i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality</i> (ANZECC & ARMCANZ, 2000), particularly Volume 1, Chapter 5: <i>Guidelines for Recreational Water Quality and Aesthetics and Volume 2, section 8.2.3: Aquatic Ecosystems</i> , and include:	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP.</p> <p>GTPL has prepared a WMP to address this condition and which includes the monitoring programs and plans required by this condition. Baseline monitoring commenced in September 2013. The WMP will then be updated and issued to agencies for their review once baseline monitoring has been completed, and then issued to DP&I for approval prior to any discharge of recycled water to the environment.</p>	
D8	<p>(a) a Surface Water Monitoring Program, including:</p> <p>(i) procedures to obtain detailed baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the project, including relevant parameters and monitoring locations,</p> <p>(ii) surface water and stream health impact assessment criteria including trigger levels for investigating any potentially adverse surface water impacts and for the supply of compensatory water,</p> <p>(iii) a program to monitor and assess:</p> <ul style="list-style-type: none"> ▪ surface water flows and quality, ▪ impacts on water users, ▪ stream health and habitat, and ▪ channel stability; 	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP.</p> <p>GTPL has prepared a WMP that includes a Surface Water and Aquatic Ecology Monitoring Program to meet the requirements of this condition. Refer to Appendix A of the WMP.</p> <p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP.</p> <p>GTPL has prepared a WMP that includes a Groundwater Monitoring Program to meet the requirements of this condition Refer to Appendix B of the WMP.</p>	

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D8	(b) a Groundwater Monitoring Program, including: <ul style="list-style-type: none"> (i) detailed baseline data of groundwater levels, yield and quality in the region, and privately-owned groundwater bores, that could be affected by the project, (ii) groundwater impact assessment criteria including trigger levels for investigating any potentially adverse groundwater impacts, (iii) a program to monitor and assess: <ul style="list-style-type: none"> ▪ impacts on the groundwater supply of potentially affected landowners, ▪ impacts on any groundwater dependent ecosystems and riparian vegetation; 	GTPL	Open	Compliant			
D8	(c) a Recycled Water Flow Release Protocol, including: <ul style="list-style-type: none"> (i) recommended discharge rates based on baseline data of receiving waterways and meteorological conditions, (ii) the detailed design and operation specifications for the discharge structure/s, (iii) procedures for the review and amendment of flow release protocols based on the outcomes of monitoring; 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. GTPL has prepared a WMP that includes a Recycled Water Flow Release Protocol to meet the requirements of this condition. Refer to Appendix C of the WMP.	
D8	(d) a Surface and Ground Water Response Plan, including: <ul style="list-style-type: none"> (i) a response protocol for any exceedances of the surface water and groundwater assessment criteria, (ii) measures to notify and compensate landowners of privately-owned land whose water supply is adversely affected by the project, and (iii) measures to mitigate and/or offset any adverse impacts on waterways, groundwater dependent ecosystems and/or riparian vegetation, and 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. GTPL has prepared a WMP that includes a Surface and Ground Water Response Plan to meet the requirements of this condition. Refer to Appendix D of the WMP.	
D8	(e) an Irrigation Management Plan prepared in accordance with relevant guidelines including Environmental Guidelines: Use of Effluent by Irrigation (DEC, 2004) and National Guidelines for Water Recycling: Managing Health and Environmental Risks (Natural Resource Management Ministerial Council, Environment Protection and Heritage Council and Australian Health Ministers' Conference, 2006), which must: <ul style="list-style-type: none"> (i) include detailed baseline data of the soil properties of the proposed irrigation areas, including salinity levels and a nutrient budget, (ii) identify any potential off-site risks and impacts and describe measures to minimise any environmental impacts, (iii) include a protocol for the use of recycled effluent for irrigation including application rates and restrictions, and (iv) include a program to monitor areas subject to irrigation. 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. GTPL has prepared a WMP that includes an Irrigation Management Plan to meet the requirements of this condition. Refer to Appendix E of the WMP.	

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D8	The Water Management Plan and sub-plans shall be prepared in consultation with OEH, NOW, NSW Health and DTIRIS (Fisheries), and be submitted to the Director-General for approval by the end of June 2012 and prior to commencing operation of the project, unless otherwise agreed by the Director-General.	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP.</p> <p>An extension for the submission of the WMP to 29 March 2013 was received on 21 September 2012. The draft WMP was then submitted to DP&I for review on 26 March 2013. The latest version (Rev 5) of the WMP was then issued in December 2013 following more consultation and review. The WMP will not be updated until the baseline monitoring is complete, after which time it will be re-issued to agencies for their review, and then to DP&E for approval prior to the discharge of recycled water to the environment.</p> <p>GTPL has prepared the WMP in consultation with the EPA, OEH, NSW Office of Water, NSW Health and Department of Primary Industries (Fisheries), QCC and ACTEW. Further consultation will take place once the WMP is updated after baseline monitoring.</p>	<p>Refer attached 'DP&I WMP extension approval_26Sep12.pdf'</p> <p>Refer attached 'draft WMP agency consultation_2013'</p>
D9	<p>The Proponent shall prepare and implement a Pink tail worm lizard protection and management plan for the project to provide and maintain habitat for the Pink-tailed Legless Lizard in accordance with condition B14. This plan must be prepared in consultation with OEH and DSEWPaC, and be submitted to the Director-General for approval by the end of June 2012. The plan must:</p> <p>(a) be prepared or peer reviewed by a suitably qualified ecologist, (b) be based on the recommendations in the EA and the objectives of the National Recovery Plan for the species, (c) outline the roles and responsibilities of parties that would implement the plan, (d) set out the appropriate objectives, actions and milestones for the Proponent, prior to handing over ownership of this land to QCC, (e) include:</p> <p>(i) procedures to survey and mark the boundary of the conservation area and a 20 metre buffer zone, (ii) procedures for the establishment and maintenance of boundary fencing, including measures to promote kangaroo grazing, (iii) procedures and success criteria for habitat restoration and weed management, (iv) procedures to control and monitor access and use of the conservation area by domestic and feral animals, (v) a community education program, (vi) procedures to achieve long-term security for the conservation area, (vii) a program to monitor the Pink-tailed Legless Lizard population within the conservation area, and (viii) a program which sets out milestone dates for achieving the actions and measures in the plan.</p>	GTPL	Open	Compliant	<p>28-Oct-14</p> <p>2-Sep-14</p>	<p>GTPL has prepared a Pink-tailed Worm-lizard Protection and Management Plan to address this condition. The Plan was prepared in accordance with condition D9, and Rev 3 of the Plan was approved by DP&I on 15 August 2013.</p> <p>An amended version (Rev 4) was then submitted to DP&E for approval which proposed to remove IWC works within the 'year 0' line as the trigger for the implementation of the management measures, as IWC works posed no risk to the conservation area given the works are to be contained within a designated construction footprint, away from the conservation boundary. Instead conservation area measures will be deferred until subdivision works commence within the 'year 0' line. DP&E approved Rev 4 of the Pink-tailed Worm-lizard Protection and Management Plan on 10 June 2014.</p> <p>A revised Plan (Rev 5) was approved by DP&E on 28 October 2014 and DotE on the 2 September 2014. The amendment related to Project Modification 3 and included a change to the Pink-tailed Worm-Lizard conservation area boundary.</p> <p>The Pink-tailed Worm-lizard Protection and Management Plan (Rev 5) was developed in consultation with Office of Environment and the DotE (formerly DSEWPaC), and was approved by DotE on 2 September 2014.</p>	<p>Refer attached 'DP&E Mod 3 and rev5 PTWL PMP 281014' and 'DotE_2011-5829 sgn letter'</p>

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
D10	Prior to the commencement of operation of the project, the Proponent shall assess the condition of all public roads and footpaths traversed by construction traffic associated with the project (including over-mass or over-dimensional vehicles) in consultation with the relevant road authorities. Should this assessment identify any damage to roads or footpaths attributable to the project, the Proponent shall repair the damage to the satisfaction of the relevant road authority.	GTPL	Open	Compliant	29-Aug-12	A pre-construction dilapidation survey of Googong Dam Road (including of existing pavement, drainage, road furniture and line markings) was carried out by Brown Consulting on behalf of GTPL in August 2012. A copy of the report was issued to QCC, and can be made available upon request. Partial reconstruction of some sections of road has been undertaken however complete restoration has not been completed as construction works are still under way. It is likely that major restoration works will be delayed until other stages of the IWC Project are also constructed (eg Stage AB WRP and subdivision works), but partial road restoration will continue as required. Road verges will be restored in accordance with the respective LMPs.	
D11	Prior to the commencement of operation, the Proponent shall submit to the Director-General details of recommendations made by the relevant road authority and how these have been addressed.	GTPL	Open	Compliant		As above.	
E1	The Proponent shall notify the Director-General and any other relevant agencies of any incident associated with the project as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of becoming aware of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident.	GTPL and contractor	Open	Non compliant		There were five Category One incidents reported to DP&E in accordance with this condition (refer Section 5.0 of the Compliance Tracking Report for details). For one Category One incident, not all follow-up written incident reports were submitted within the required seven days in accordance with Incident Response Procedure outlined in Section 7.3 of the relevant CEMP.	
E2	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 E1 of this approval, within such period as the Director-General may require.	GTPL and contractor	Open	Compliant		Following all Category One incidents during the reporting period, all DP&E requests have been addressed.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
A1	Avoid impacts on and monitor changes to aquatic ecology.	<p>Aquatic ecology impacts are considered under WQ4.</p> <p>A water quality and aquatic ecology monitoring program will be developed to monitor construction and operation impacts of the Project on waterways (refer to WQ4 for further details). The monitoring program will include siting of the aquatic ecology monitoring location to ensure viable comparison with historical and other recent river ecology data.</p> <p>Riparian vegetation, weeds and invasive scrub</p>	GTPL	Open	Compliant		<p>Noted.</p> <p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP.</p> <p>GTPL has prepared a Water Management Plan (WMP), as required by CoA D8 that incorporates the requirements of this SoC and SoC WQ4 and includes a Surface Water and Aquatic Ecology Monitoring Program. Refer to Appendix A of the WMP. Collection of baseline data commenced September 2013.</p> <p>Compliance with this condition is ongoing throughout Stage A – Network (west/east),</p>	

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		will be managed within the Googong township site. This will include surveying, mapping and managing invasive species.					Stage B Network and Stage AB WRP works and will be managed through the mitigation measures detailed in the Flora and Fauna Management Plans (FFMPs) (Weed Management Strategy).	
A2	Minimise impacts on aquatic habitats.	Riparian zones within the Googong township site will be revegetated with species of local providence to increase stability. Further measures to ensure minimal impact on aquatic habitats are addressed in Statement of Commitments WQ1-WQ5.	GTPL	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west) works and will be managed through mitigation measures detailed in the Stage A – Network (west) FFMP. The Stage A – Network Landscape Management Plan (LMP) also provides detail on revegetation measures to be implemented as part of Stage A – Network (west). There are no riparian zones affected by the construction of Stage A – Network (east), Stage B Network or the Stage AB WRP. No specific mitigation measures required for these stages.	
AQ1	Ensure detailed design and urban layout of the Googong township meet air quality requirements for odour.	The dispersion modelling undertaken as part of the Googong New Town WRP Odour Impact Assessment will be validated at a later stage in the design, for the ultimate development. This will include consideration of:	GTPL	Open	Compliant		Condition not applicable to Stage A – Network (west/east), Stage B Network or operation of Stage A – Network. This condition applies to the detailed design of Stage AB WRP that is to occur during 2015.	
		<ul style="list-style-type: none"> Site-specific meteorological data, collected at the WRP site for at least 12 months prior to commissioning. Site specific odour data collected during and following commissioning, prior to the residential development of the immediate area west of the WRP. 					Meteorological data collection at the WRP site commenced in July 2013, more than 12 months prior to the scheduled commissioning of the WRP. Data will be used to inform the detailed design of the Stage AB WRP.	
AQ2	Minimise odour impacts of WRP and SPS at nearby receivers.	Odour control facilities at the SPSs and the WRP will be installed as detailed in the EA (refer to Sections 4.4.2 and 5.13 of Appendix B).	GTPL and contractor	Open	Compliant		An odour control unit and aerator/blower have been installed at SPS1 and have been operational during the reporting period. Condition not applicable to Stage A – Network (east), as it does not include sewage infrastructure. Odour control facilities for the Stage AB WRP will be included as part of the detailed design and construction.	
AQ3	Monitor, verify then act on odour complaints.	Odour complaints will be registered and investigated. Verified odour issues will be addressed with engineering, operational or other mitigation and management measures.	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. GTPL has prepared an OEMP for Stage A – Network that considers odour risks and complaints. Odour aboveground at SPS1 was monitored daily using an odour monitor and no odour was detected during the reporting period. In addition no odour complaints were received during the reporting period.	

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AQ4	Minimise the impact of construction activities on dust generation.	The CEMP will include typical dust suppression measures. Nuisance dust will be minimised by: <ul style="list-style-type: none"> Reducing speed limits during high dust conditions. Clearing vegetation and topsoil only within the designated footprint. Progressive reinstatement of disturbed areas. Employment of water trucks to reduce dust in dry, windy conditions. 	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages Air Quality Management Plans (AQMPs). No dust complaints were received during the reporting period.	
AQ5	Minimise dust generated by construction activities such as blasting.	Blasting will be conducted at appropriate times, with consideration of site conditions and sensitive receivers.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages Noise and Vibration Management Plans (NVMPs), AQMPs, and the Blast Management Plans.	
AQ6	Manage construction activities according to weather conditions to minimise the potential for dust storms.	Working practices will be modified during periods of high winds by limiting the use of some machinery, particularly when in close proximity to dwellings, and reducing vehicle travel speeds.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages AQMPs. No dust complaints were received during the reporting period.	
AQ7	Avoid adverse impacts on air quality due to smoke.	The burning of material on site will be prohibited, except under the instruction of fire services.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the respective stages AQMPs. No burning took place on site and no smoke-related complaints were received during the reporting period.	
AQ8	Minimise emissions from vehicle use.	Vehicles will be well maintained to ensure emissions are kept to the minimum practicable.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages AQMPs. No air quality complaints were received during the reporting period.	
C1	Put management systems in place for protection of the environment.	A construction environmental management plan (CEMP) will be developed in consultation with relevant agencies to manage the environmental issues assessed in this EA and implement the identified mitigation and management measures where required.	GTPL and contractor	Complete	Compliant	18-Oct-12	A CEMP been prepared for Stage A – Network (west). The plan was provided to relevant authorities/agencies for comment in June and July 2012. Comments were addressed and the revised Stage A – Network (west) was submitted to DP&I. DP&I approved the CEMP on 18 October 2012.	Refer attached 'DP&I Approval Stage A Network West CEMP_18Oct2012.pdf' and 'Stage A Network CEMP Agency Correspondence.pdf'
						05-Dec-12	A CEMP been prepared for Stage A – Network (east). The plan was provided to relevant authorities/agencies for comment in June and July 2012. ACTEW (as the Principal and the future owner operator) were also consulted during development of the Stage A – Network (east) CEMP. Comments were addressed and the revised Stage A – Network (east) was submitted to DP&I. DP&I approved the CEMP on 5 December 2012.	Refer attached 'DP&I Approval Stage A Network East CEMP_5Dec2012.pdf' and 'Stage A Network CEMP Agency Correspondence.pdf'

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
						11-Dec-13	<p>A CEMP been prepared for Stage AB WRP. The plan was provided to relevant authorities/agencies for comment in 2013.</p> <p>Comments were addressed and the revised Stage AB WRP CEMP was submitted to DP&I. DP&I approved the CEMP on 11 December 2012.</p>	<p><u>Refer attached 'DP&I Stage AB WRP CEMP approval 11Dec2013' and 'Stage AB WRP CEMP agency comments 2013'</u></p>
							<p>GTPL prepared the Stage B Network CEMP in consultation with the following stakeholders: QCC, OEH, Environment Protection Authority, RMS, NSW Office of Water and DoE.</p> <p>The CEMP was provided to DP&E for approval. The Director approved the CEMP on 27 August 2014. See correspondence attached.</p>	<p><u>Refer attached 'DP&E Letter approving CEMP Stage B Network 270814' and 'Stg B Network CEMP Agency Letters'.</u></p>
C2	Minimise impacts on human amenity as a result of construction hours.	Construction work will generally be undertaken between the hours of 6.00am and 7.00pm Monday to Friday, and 8.00am to 1.00pm Saturdays. At all other times, construction noise levels will be as agreed with the relevant receiver(s).	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages NVMPs.</p> <p>In regards to Stage A Network (east), two inaudible out of hours works applications were submitted to DP&E on the 24 September 2014 and the 9 October 2014.. These applications were approved by DP&E on the 27 September 2014 and 10 October 2014 respectively.</p> <p>Additionally, one audible out of hours works application was submitted to DP&E on 7 October 2014, this application was approved on 14 October 2014 as DP&E were satisfied that the noise associated with the planned cut-in works will be restricted to daylight hours and that the proposed mitigation measures would further reduce noise associated with trucks travelling along Googong Dam Road.</p> <p>No out of hours complaints were received.</p>	
CS1	Ensure effective consultation with community and other stakeholders is continued.	A combined consultation strategy for community stakeholders and key government agencies will continue to be implemented throughout the Project. The outcomes of ongoing consultation will continue to influence the Project.	GTPL	Open	Compliant		<p>GTPL has prepared a Stage 1 Community Engagement and Stakeholder Management Plan. The actions of this plan have been implemented during the reporting period. This include regular and close liaison with QCC and ACTEW through design and construction and seeking feedback from other government agencies on the various management plans required for the project.</p> <p>In addition a Bush on Boundary (BoB) group has been formed for the Googong Township and includes representatives from local catchment management authorities, QCC and community members. The BoB group had their third meeting on 1 December 2014, where the bulk water connection, water monitoring program and discharge modification was discussed.</p>	
CS2	Ensure all affected stakeholders are kept informed of the construction schedule.	During construction, affected communities will be informed prior to the start of any works in their area and will be notified at regular intervals throughout the construction process according to a project-specific community engagement and stakeholder management plan.	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the Stage 1 Community Engagement and Stakeholder Management Plan and Community Information Plan.</p> <p>During the reporting period, a construction update was advertised in the Queanbeyan Age the week commencing 21 July and notification letters were issued to all residents for blasting activities on the 3 December 2014 for Stage B Network.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
CS3	Ensure coverage of water cycle issues in the broad community education strategy for the Googong township.	A community education strategy will be developed, which will focus on minimising environmental and human health risks associated with the use of recycled water.	GTPL	Open	Compliant		Condition not applicable to construction stages (ie Stage A – Network (west/east), Stage B Network and Stage AB WRP). GTPL has updated its Community Education Strategy for Stage 1 of the Googong Township Integrated Water Cycle Project in consultation with QCC and will arrange a meeting with NSW Health in the next reporting period. In addition QCC has prepared a Recycled Water Quality Management Plan that also details education and consultation strategies. GTPL and QCC will continue to progress actions before the IWC Project moves into operation phase and recycled water is available to residents.	
D1	Ensure final location and design of all water cycle infrastructure minimise impacts on natural environment and human health.	Any location and/or design changes will be subject to a consistency assessment, informed through a desktop analysis of each of the environmental issues addressed in this EA.	GTPL	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the Compliance Tracking Program (CTP) developed to meet CoA A18. The CTP details the commitment to ensure design changes are assessed for consistency with the approved project. Two consistency assessments were submitted for Stage 1 of the IWC Project, refer Section 2.4 of the Compliance Tracking Report for more information.	
D2	Ensure final location and design of all water cycle infrastructure minimise impacts on natural environment and human health.	Where any final location and/or design changes are not generally consistent with the Part 3A approval of the Project, the proponent will apply for modification under Section 75W of the EP&A Act.	GTPL	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the CTP which details the commitment to ensure design changes are assessed for consistency with the approved project. One modification (Modification 3) was submitted by GTPL to DP&E during the reporting period (and approved on 28 October July 2014. Refer Section 2.5 of the Compliance Tracking Report for more detail. No other modifications were issued for the IWC Project.	
D3	Ensure final location and design of all water cycle infrastructure minimise impacts on natural environment and human health.	The construction and operation of the Project will comply with QCC's Development Specification – Googong.	GTPL and contractor	Open	Compliant		The Stage A – Network (west/east), Stage B Network and Stage AB WRP CEMPs have been prepared with consideration of the QCC's Development Construction Specifications which are also provided to contractors. QCC has been provided with a copy of each CEMP for review and found the document to be adequate.	

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F1	Protect native flora and fauna.	A flora and fauna management plan will be prepared prior to construction as part of the CEMP. All feasible and reasonable measures will be undertaken to minimise the impact of construction on native vegetation and fauna including:	GTPL	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) FFMP in consultation with the following agencies: QCC, OEH and the Commonwealth Department of the Environment (DotE) (formerly DSEWPaC).	
						05-Dec-12	GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following agencies: QCC, OEH and DotE.	
						11-Dec-13	GTPL has prepared a Stage AB WRP FFMP in consultation with the following agencies: QCC, EPA, OEH and DotE.	
						27-Aug-14	GTPL has prepared a Stage B Network FFMP in consultation with the following agencies: QCC, EPA, OEH and DotE.	
		<ul style="list-style-type: none"> Minimising the disturbance of native flora and hollow-bearing trees. 	GTPL and contractor	Open	Compliant	<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the respective FFMPs.</p> <p>During the reporting period, a total of 71 nest boxes were monitored, comprising all of the boxes installed for Stage A Network (east) and Stage AB WRP. The Stage A Network (west) boxes were not checked at this time due to time constraints, however these boxes have been monitored in the year (5 December 2013). For Stage B, 40 nest boxes were installed and remained in place at the end of the reporting period.</p> <p>The Biosis report noted that possibly one of the hollow bearing trees (identified from the pre-clearing survey in 2013) had already been felled without supervision of an ecologist. The tree appeared to have been cut down by chainsaw, with the pieces left on site. However, the report notes it is unclear who removed the tree, or when it was removed.</p> <p>Additionally, clearing of vegetation for the Stage B Network was undertaken on 25 November 2014, two trees were felled, the remaining hollow-bearing trees were still standing and the Biosis report would be updated following the clearing of these trees.</p>		
		<ul style="list-style-type: none"> Implementing weed control measures. 				Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages FFMPs (Weed and Pest Management Strategy).		
<ul style="list-style-type: none"> Revegetating with endemic species. 				Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network, and Stage AB WRO works and has been managed through the mitigation measures detailed in the respective stages FFMPs and LMPs.				
<ul style="list-style-type: none"> Minimising soil disturbance. 				Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network, and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages FFMPs.				
<ul style="list-style-type: none"> Implementing clearing protocols to protect flora and fauna. 				Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages FFMPs. Refer to Table 5.1 and Attachment 2 (Vegetation Clearing Procedure). Areas to be protected (ie Endangered Ecological Communities) have been fenced off with signage. Tree felling was undertaken under the supervision of a qualified ecologist. However, it was noted in				

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							the Biosis report on nest box monitoring, nest box installation and clearance monitoring that one hollow bearing tree within the Stage AB WRP site was cleared possibly without the required clearance monitoring. However the report notes it is unclear who removed the tree or when it was removed.	
F2	Protect threatened flora and fauna.	The Flora and fauna management plan (within the CEMP) will contain specific additional measures for threatened species, including:	GTPL	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) FFMP in consultation with the following agencies: QCC, OEH and DSEWPaC.	
						05-Dec-12	GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following agencies: QCC, OEH and DSEWPaC.	
						11-Dec-13	GTPL has prepared a Stage AB WRP FFMP in consultation with the following agencies: QCC, EPA, OEH and DotE (formerly DSEWPaC).	
						27-Aug-14	GTPL has prepared a Stage B Network FFMP in consultation with the following agencies: QCC, EPA, OEH and DotE (formerly DSEWPaC).	
		<ul style="list-style-type: none"> Only approved works will be undertaken within 5m of a threatened species and exclusion fencing will be erected around threatened flora species and threatened fauna habitats and maintained in place until such time as construction works are completed, unless otherwise approved by OEH. 	GTPL and contractor	Complete	Compliant		The requirements of this commitment has been managed through the mitigation measures in the Stage A – Network (west/east), Stage B Network and Stage AB WRP FFMPs that detail management measures for working in proximity to native vegetation (flora and fauna constraints maps). Areas to be protected (ie Endangered Ecological Communities) have been fenced off with signage throughout the reporting period.	
		<ul style="list-style-type: none"> Site-specific management measures will be implemented for the protection of the Pink-Tailed Worm Lizard near the site proposed for SPS2 and at Hill 800, and for the Hoary Sunray near the BWPS site, including exclusion zones, signage and pre-construction surveys. These works will be undertaken under the supervision of an appropriately qualified ecologist. 		Open			Condition not applicable to construction of Stage A – Network (west) or Stage AB WRP as these works are not located in the vicinity of the Pink-tailed Worm-lizard habitat or Hoary Sunray. GTPL has prepared a Stage A – Network (east) FFMP that details management measures for working in proximity to Hoary Sunray population (flora and fauna constraints maps). The Hoary Sunray population remained fenced off during the reporting period. GTPL has prepared a Stage B Network FFMP that details management measures for working in proximity to PTWL (flora and fauna constraints maps). The PTWL Conservation Area is outside the Stage B Network boundary, however management measures include informing all project personnel of the location and importance of the PTWL Conservation Area.	
F3	Protect terrestrial flora and fauna.	An Operational environmental management plan (OEMP) will be prepared for the Project, and implemented. This will detail emergency, spill and maintenance procedures as well as monitoring and reporting regimes as they relate to the protection of terrestrial and aquatic ecology.	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network and Stage AB WRP. GTPL has prepared an OEMP for Stage A – Network but operations for this stage do not involve discharge of water to the environment or risks to aquatic ecology. The OEMP for the Stage AB WRP and the WMP will be the key documents to manage the requirements of this condition. Baseline monitoring for the WMP commenced in September 2013.	
G1	Prevent impacts to groundwater recharge.	Timing of trench construction will be monitored and planned to ensure, where practical, the time the trench is open is reduced and during periods of low rainfall.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages SWMPs. No groundwater issues were identified during the reporting period.	

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G2	Minimise groundwater contamination	<p>Site environmental management measures will be developed and outlined in the CEMP with the purpose of minimising the potential for spills to occur and implementing remedial actions (refer to SG1). These will include:</p> <ul style="list-style-type: none"> Mapping unregistered nearby groundwater bores, if identified. Ensuring that all refuelling, where possible, occurs at designated fuel distribution points. These points will be underlain by compacted earth to prevent the significant loss of fuel to the ground during a spill and will be bunded to contain large spills. 	GTPL and contractor	Complete	Compliant		<p>GTPL has prepared SWMPs for Stage A – Network (west/east), Stage B Network, and Stage AB WRP that outline management measures and procedures relating to spills.</p> <p>Letters inviting nearby property owners to participate in baseline monitoring were issued late 2013, and a site visit to two interested property owners was undertaken in December 2013. It was later discussed and noted that the two bores would not be able to be sampled for technical and access reasons.</p> <p>GTPL has prepared SWMPs for Stage A – Network (west/east), Stage B Network, and the Stage AB WRP that outline management measures and instructions around refuelling. No refuelling spills were recorded during the reporting period.</p>	
G3	Monitor groundwater quality to minimise adverse impacts.	<p>Develop a groundwater monitoring program for the Project in consultation with relevant stakeholders. This program will address the following:</p> <ul style="list-style-type: none"> The salt levels in groundwater will be regularly monitored during and after Stage 1 of the Project. Groundwater samples will be collected from both the shallow and regional aquifers, and soil conductivity (that is, salt) mapping will be carried out where possible in areas of inferred impact. The monitoring of salt levels in the receiving waters will be indicative of the effectiveness of the stormwater system (refer below). 	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, or Stage AB WRP.</p> <p>GTPL has prepared a Groundwater Monitoring Program as part of the WMP in accordance with this SoC and in consultation with relevant stakeholders. Baseline monitoring commenced in September 2013.</p>	Refer attached 'draft WMP agency consultation_2013'
G4	Minimise impact on drainage.	Develop the layout of infrastructure to reduce the impact on natural surface and subsoil drainage.	GTPL	Open	Compliant		The WRP, BWPS, SPS1, SPS2 and Interim Reservoir sites have been designed to minimise earthworks so that the impact natural surface level is minimised. This will in turn minimise the impact on subsoil drainage.	
G5	Minimise the potential for groundwater mounding.	Construct in accordance with the approved materials and provisions of water supply code (WSA) 03-2002 to minimise leakage from water cycle infrastructure.	Contractor	Open	Compliant		The WRP, BWPS, SPS1, SPS2 and Interim Reservoir sites have been designed in accordance with the Water Supply Code.	
G6	Minimise the potential for waterlogging.	<p>The risks associated with waterlogging will be considered and accommodated through the design of the drainage system.</p> <p>Irrigation systems will be designed and scheduled to avoid overwatering.</p>	GTPL	Open	Compliant		<p>This commitment is being met through the design of the reticulation network in the subdivision in addition to the IWC infrastructure.</p> <p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP and relates more to the subdivision works where green space is to be irrigated during the long term. An Irrigation Management Plan for communal green space areas that will be irrigated with recycled water has been prepared as part of the WMP to meet the requirements of this commitment.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
G7	Minimise salinity impacts on soil and plant growth.	Soil monitoring in low-lying areas, where salt is likely to accumulate, will be undertaken. If salt levels were shown to be increasing, engineered drainage structures to nearby creek lines will be constructed.	GTPL	Open	N/A		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network and Stage AB WRP. GTPL has prepared a WMP that addresses soil monitoring. Soil monitoring will be undertaken prior to commencement of operation of the WRP and once subdivision works have been completed in Neighbourhood 1A.	
		As a preventative measure, to avoid future bare soil patches and erosion, salt-tolerant landscaping will be used in low-lying areas.			Compliant		A LMP for Stage A – Network, Stage B Network and Stage AB WRP has been prepared with consideration for salt-tolerant landscaping. The Part 4 subdivision works have also had regard for this SoC and salt tolerant plants have also been established in the township. Future LMPs for the IWC Project will also take into account the need for salt-tolerant landscaping in low-lying areas where relevant.	
G8	Further investigate the groundwater environment, potential changes to recharge, and likelihood of long-term impacts.	Undertake the groundwater monitoring program as outlined in Table 12 of this report.	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, or Stage AB WRP. GTPL has prepared a Groundwater Monitoring Program in accordance with this commitment (refer to Appendix B of the WMP) to better understand the existing groundwater conditions. Baseline monitoring commenced in September 2013.	
H1	Avoid and/or minimise impacts on indigenous heritage.	Generally, indigenous heritage on the site will be managed in accordance with Appendix G of the EA, including the four identified indigenous heritage sites. The avoidance, relocation or disturbance of any Aboriginal heritage sites and PADs will be in accordance with relevant guidelines and permits. An archaeologist and representatives of the local Aboriginal community will conduct any relocation works.	GTPL and contractor	Open	Non-compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the respective HMPs. There was one heritage related incident recorded during the reporting period for Stage A Network (east), refer to Section 5.1 of this report.	
H2	Protect unknown indigenous heritage.	Should any unknown indigenous heritage items be located during the proposed works by the site environmental officer or any other construction staff, all work will cease in the vicinity of the find until specialist indigenous heritage advice is received.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network, and Stage AB WRP works and has been managed through mitigation measures detailed in the respective stages HMPs. Refer also to Attachment 2 (Unexpected Heritage Finds Procedure). No unexpected finds occurred during the reporting period.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
HH1	Ensure recycled water meets all relevant guidelines.	Recycled water will meet the requirements for non-potable domestic use as defined in the <i>Australian Guidelines for Water Recycling: Managing Health and Environmental Risks</i> (NRMMC, EPHC & AHMC, 2006). Recycled water will be appropriately planned and industry accepted management systems put in place to assure appropriate product quality.	GTPL and QCC	N/A	N/A	N/A	Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, Stage AB WRP, or operation of Stage A – Network, as they do not involve the supply of recycled water to the township. QCC has prepared Recycled Water Quality Management Plan (RWQMP) as part of their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP, which addresses the requirements of this commitment. The detailed design of the Stage AB WRP will be undertaken so that the WRP can operate to meet the requirements of this plan and the D5 effluent criteria.	
HH2		A Recycled Water Risk Management Plan (RWRMP) will be prepared based on the risk management framework outlined in <i>Australian National Guidelines for Water Recycling – Managing Health and Environmental Risks</i> (2006). This RWRMP will be a living document that will be refined throughout operation of the recycled water scheme. It will involve: <ul style="list-style-type: none"> Developing the RWRMP through hazard identification (for the operation of the recycled water system and use of recycled water). Identifying the significant human and environmental health risks. Conducting validation, operational and verification monitoring to determine the success of the following respective components of the scheme: the risk management system, preventative measures, and the achievement of safe and sustainable water recycling. Completing the RWRMP, based on the monitoring results. 	GTPL and QCC	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, Stage AB WRP, or operation of Stage A – Network, as they do not involve the supply of recycled water to the township. QCC has prepared RWQMP as part of their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP, which addresses the requirements of this commitment. The detailed design of the Stage AB WRP will be undertaken so that the WRP can operate to meet the requirements of this plan and the D5 effluent criteria.	
HH3	Reduce risks associated with exposure to recycled water.	The Proponent will apply the following risk management practices to limit exposures to recycled water: <ul style="list-style-type: none"> Installation regulations and codes of practice that include systematic processes to reduce the probability of cross-connections. Materials codes and regulations that easily discriminate drinking and recycled water plumbing. Regulations that limit the legal installation and modification of plumbing systems to licensed individuals. Education on recycled water use and the need to avoid creating cross-connections. Installation of backflow prevention. 	GTPL and QCC	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, Stage AB WRP, or operation of Stage A – Network, as they do not involve the supply of recycled water to the township. QCC has prepared RWQMP as part of their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP, which addresses some of the requirements of this commitment. Design guidelines and a plumbing standard for builders and property owners in the township have also been developed and distributed to help ensure the recycled water network is installed correctly. Also refer to Statement of Commitment CS3 for more information on the Community Education Strategy and communication around recycled water for operation.	http://googong.net/sales/design-guidelines.php

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
		<ul style="list-style-type: none"> Operational checking (that is, testing of recycled effluent quality following treatment) and connection auditing. Continue to liaise with relevant stakeholders to ensure awareness and understanding of the Project (including discharges of excess recycled water to the environment) and to address arising issues. 						
N1	Minimise the noise impact associated with construction.	<p>Construction noise and vibration management strategies will be outlined in the CEMP. Measures will include the overall construction times (refer to C2) as well as the following:</p> <ul style="list-style-type: none"> Construction noise goals. Liaising with community to advise on likely timing and duration of noisy activities. Procedures for resolving complaints received from residents and landowners and dealing with exceedances (including the appointment of a liaison person to maintain relationships between the community and the construction contractors in accordance with AS 2436:1981 <i>Guide to noise control on construction, maintenance and demolition sites</i>). Using noise abatement measures (physical and managerial) where reasonable and feasible. Procedures for liaising with the relevant agencies to discuss the need to construct outside of regular hours, for specific cases. 	GTPL	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p> <p>27-Aug-14</p>	<p>GTPL has prepared a Stage A – Network (west) NVMP that details measures to manage noise and vibration impacts in accordance with this commitment. No construction-related noise complaints were received during the reporting period.</p> <p>GTPL has prepared a Stage A – Network (east) NVMP that details measures to manage noise and vibration impacts in accordance with this commitment. No construction related noise complaints were received during the reporting period.</p> <p>GTPL has prepared a Stage AB WRP NVMP that details measures to manage noise and vibration impacts in accordance with this commitment. No construction related noise complaints were received during the reporting period.</p> <p>GTPL has prepared a Stage B Network NVMP that details measures to manage noise and vibration impacts in accordance with this commitment. No construction related noise complaints were received during the reporting period.</p>	
N1A	Assess the potential for vibration impacts should blasting be required.	Should blasting at the WRP or SPS sites be necessary based on geotechnical information and construction methodology, a construction vibration assessment will be undertaken in accordance with <i>Assessing Vibration: A Technical Guideline</i> (DECC, 2006) to determine any additional management measures required for blasting activities.	Contractor	Open	Compliant		<p>NVMPs and Blast Management Plans are in place for Stage A – Network (west/east), Stage B Network and Stage AB WRP works that considered vibration impacts and meet the requirements of this condition.</p> <p>Blasting was required for Stage B Network on 17 December 2014 between 9.00am and 5.00pm. A blast plan was prepared and blasting notifications were issued to QCC and all residents on the 2 December 2014 (2 weeks prior to blasting activities).</p>	
N2	Meet noise requirements near the WRP site boundary during operations.	The acoustic treatments specified for the WRP components, as outlined in Appendix J, will be implemented and then reviewed for effectiveness following noise measurement verification.	GTPL	N/A	N/A	N/A	<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, Stage AB WRP or operation of Stage A – Network.</p> <p>Noise attenuation will be considered as part of the detailed design for the Stage AB WRP. Operational noise testing will be undertaken as part of commissioning for the WRP.</p>	

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NH1	Avoid and/or minimise impacts on non-indigenous heritage.	<p>Generally, non-indigenous heritage on the site will be managed in accordance with Appendix G of the EA.</p> <p>Construction and maintenance activities will be managed to avoid structural damage on heritage items as a result of vibration.</p> <p>Construction activities will be excluded from the identified heritage sites. However, if impacts are unavoidable then a further heritage assessment of the impacted site(s) will be conducted.</p>	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective HMPs. There were no heritage incidents to non-Indigenous heritage items recorded during the reporting period.	
NH2	Continue to investigate heritage values of site GH14 (refer to Section 7.3 of Appendix G of the EA).	Investigation into the value of site GH14 is continuing. The results of this study will inform the approach to mitigation of impacts to non-indigenous heritage.	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, and Stage AB WRP, or the operation of Stage A – Network as works will not impact on site GH14.</p> <p>GH14 is located in the subdivision works for the township and the management of this heritage item is being managed under the subdivision works program and a Part 4 (EP&A Act) approval. GTPL has completed excavation works at this site, carried out under a S146 permit under the NSW <i>Heritage Act 1977</i> and the item is currently stored in a container. The structure will be re-built when the subdivision works are completed.</p>	
NH3	Protect unknown non-indigenous heritage items.	If any material of potential archaeological significance is unearthed, work will cease in the vicinity of the find until specialist heritage advice has been obtained. The NSW Heritage Council will be notified of the discovery of any relics.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network, and Stage AB WRP works and has been managed through mitigation measures detailed in the respective stages HMPs. No unexpected finds occurred during the reporting period.	
OP1	Ensure comprehensive monitoring of operation of the water cycle.	<p>Establishment and location details for monitoring sites will be in accordance with WQ4. Results of all monitoring programs that form part of these Statement of Commitments will be considered in terms of overall environmental impact on a regular basis, including:</p> <ul style="list-style-type: none"> ▪ The trade-off between potable water savings, reduction in stormwater discharges and increased recycled water discharges. ▪ Relative impacts of excess recycled water discharges compared to impacts on soil and groundwater from recycled water uses. ▪ The timeframe for relative comparisons of impacts of components of the water cycle will be determined in consultation with the relevant government agencies. ▪ The ability to feedback results for further stages of Googong township. 	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, or Stage AB WRP.</p> <p>GTPL has prepared a WMP to meet this condition (refer CoA D8), and baseline data currently being obtained will be used to set appropriate operational triggers for the WRP and assist with the management of the WRP in accordance with this condition. Baseline monitoring commenced in September 2013.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
OP2	Ensure comprehensive monitoring of operation of the water cycle.	Telemetry will be installed on all major water cycle infrastructure to gather operational data.	GTPL	Open	Compliant		Telemetry has been installed at the BWPS, Interim Reservoirs and SPS1 during construction. GTPL has prepared an OEMP for Stage A – Network that outlines requirements to obtain operational data from the telemetry which will help to inform design for future stages.	
OP3	Adaptive management	Management plans will be reviewed with consideration of the outcomes of monitoring programs: <ul style="list-style-type: none"> Additional management and mitigation measures will be implemented, should monitoring identify that the water cycle system is operating outside of modelled or expected parameters. 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, and Stage AB WRP. GTPL has prepared an OEMP for Stage A – Network and WMP that includes information about the review of management plans and adaptive management. Note that the operation of Stage A – Network does not involve the discharge or water to the environment. Future OEMPs will consider in more detail the additional mitigation measures to address when the water cycle infrastructure is operating outside the modelled or expected parameters.	
R1	Manage the operational risks associated with storage and delivery of chemicals.	Measures typical of facilities of the nature and size of the Project will include: <ul style="list-style-type: none"> Storing relevant chemicals below threshold quantity levels. Undertaking activities in accordance with relevant MSDS's. Installing bunded areas for the storage and delivery of chemicals in accordance with AS 3780:2008 <i>The storage and handling of corrosive substances</i> and the relevant MSDS's. Developing and implementing appropriate procedures for delivery, handling and accidental spills of chemicals. 	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages HRSMPs. There was one Category One Incident during the reporting period relating to the storage of chemicals. There was a sodium hypochlorite spill for Stage A Network (west) on 24 July 2014. All notifications were completed in accordance with the conditions.	
R2	Manage risks in emergency and/or maintenance situations at the key infrastructure.	The OEMP and RWRMP will outline the management of emergency situations for all key water cycle infrastructure. For emergency or maintenance events associated with the WRP, the following will be implemented/installed, and will include measures such as: <ul style="list-style-type: none"> Telemetry at all key infrastructure (eg SCADA). An alarm system. Backup procedures should the power to infrastructure be interrupted. First flush tank at the WRP and wet well emergency storage at the SPS's. Overflows at the WRP and the SPS's. 	GTPL, QCC and ACTEW	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, and Stage AB WRP. However the detailed design of the WRP will consider emergency infrastructure requirements as required by this condition. GTPL has prepared an OEMP for Stage A – Network that includes information about emergency situations as required by this condition (telemetry, alarms, and back up power supply – NB the storage at SPS1 is for ultimate development and the expected volumes in SPS1 during the operation of Stage A – Network prior to commissioning at the WRP would be lower so that not all the emergency storage or emergency overflow would need to be utilised). In addition, QCC has prepared RWQMP as part of their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP, which helps to address the requirements of this commitment.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
S1	Ensure proper management of soils.	Soil and water management plans will be developed and implemented for the construction phase, via the CEMP, in accordance with <i>Managing urban stormwater: soils and construction, Volume 1</i> (the 'Blue book'). Soil types will be identified and delineated within the study area. Soil management measures will be developed according to soil type and be documented in the CEMP.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the respective stages SWMPs.	
S2	Prevent soil erosion and minimise loss of topsoil.	The CEMP will detail erosion and sedimentation control measures, to maintain surface and soil stability at all times during cut and fill excavation activities (also necessary to ensure site safety). Graded soil will be stockpiled separately so that local soils can be recovered for respreading. During restoration and cleanup, the following will be applied in relation to stabilisation of soils: <ul style="list-style-type: none"> Reprofiling of the site to achieve soil stability and congruity with the surrounding landscape. This will be done in consideration of the landscape and open space strategy (LOSS) for the Googong township. Reseeding and the use of geotextile materials as required. Backfilling of trenches in layers with compaction. Management and exclusion of site access to assist with site recovery. 	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13 27-Aug-14	GTPL has prepared a Stage A – Network (west) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment. GTPL has prepared a Stage A – Network (east) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment. GTPL has prepared a Stage AB WRP SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment. GTPL has prepared a Stage B Network SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	
S3	Prevent and manage spills.	To prevent and manage spills, the proponent will: <ul style="list-style-type: none"> Implement chemical transport, storage, handling and disposal procedures, in accordance with requirements for dangerous goods, of environmental legislation and industry standards. Ensure spill response procedures and equipment for containment and recovery are available on site. Conduct workforce training on the transport, storage, handling and disposal procedures relating to chemicals. 	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages SWMPs. There was one Category One Incident during the reporting period relating to the storage of chemicals. There was a sodium hypochlorite spill for Stage A Network (west) on 24 July 2014. All notifications were completed in accordance with the conditions.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification	
S4	Manage potential and/or real soil contamination on site.	To manage soil contamination, the proponent will:	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages SWMPs. No contamination issues were recorded during the reporting period.		
		<ul style="list-style-type: none"> Manage contaminated soil disposal or removal from site in accordance with OEH <i>Waste Classification Guidelines</i>, 					No contaminated waste/spoil was identified during the reporting period.		
		<ul style="list-style-type: none"> Conduct further investigations at the newly identified area of concern (AEC – identified as Site 3 in Section 9.3.5 of the EA) prior to construction. An OEH accredited site auditor will provide advice on the need for further investigations at AEC3, if it is to be disturbed by the Project, and 		Complete	Compliant	09-Aug-12	GTPL has investigated the presence and extent of potential soil contamination for Stage A – Network and Stage AB WRP. A site survey was carried out by Geotechnique on 19 and 20 July 2012. No sites of potential contamination were identified.		Refer attached 'Geotechnique Contamination Assessment_7Aug2012.pdf'
		<ul style="list-style-type: none"> Develop a sampling strategy for AEC2 (shown in Section 9.3.5 of the EA) as soon as the existing uses at the site cease, in consultation with an OEH accredited site auditor. 		N/A	N/A	N/A	The contamination assessment found that given the AEC2 was situated away from the Stage A – Network, Stage B Network and Stage AB WRP sites, such that a desktop study and walkover / site inspection of the site was sufficient due diligence.		
		If potential or actual contamination is found during earthworks, stop all work in the affected area until a suitably qualified person has inspected the site, the hazard has been assessed and appropriate action has been taken (including delineating areas of concern as required until earthworks can resume safely).		Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages SWMPs. No contamination issues were recorded during the reporting period.		
S5	Ensure minimal impact on soil salinity and groundwater quality.	Ensure that appropriate materials are used to mitigate against the corrosive impacts of high salinity.	GTPL	N/A	N/A	N/A	Condition not applicable to construction of Stage A – Network (west/east), Stage B Network and Stage AB WRP, or operation of Stage A – Network. This condition will be met during detailed design of Stage AB WRP.		
		Design, where possible, the salt sensitive urban stormwater drainage system to direct potential saline runoff to a water body that is able to assimilate the expected salt load being applied to the landscape, without adverse impacts on aquatic and riparian ecosystems. Place and design built structures in consideration of existing and potential soil salinity levels.					Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, or Stage AB WRP. This condition will be met during detailed design phase for the stormwater ponds as part of the Part 4 subdivision works.		
		The proposed WRP should be designed to minimise the need for additions of chemicals for phosphorus removal, to minimise salt loading. The Proponent will explore options to switch off the phosphorus removal process during peak irrigation demand periods in accordance with Statement of Commitment OP1.					Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. This condition will be met during detailed design phase for the WRP and implementation of the WMP (as per CoA D8) that has been prepared and will be updated prior to operation of the WRP.		

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
		<p>Early stages of Googong township will be used as a trial to better understand the movement of salt in the landscape. It will involve the installation of carefully located piezometers and the monitoring of results, as well as monitoring the effectiveness of pre-emptive measures such as any subsurface drainage system. The results will be used to improve strategies for ensuing stages.</p> <p>Recycled water users will be informed of the specific risks associated with irrigation with recycled water, in the context of developing a complete awareness of the Project and its environmental trade-offs. This will include:</p> <ul style="list-style-type: none"> Education on salinity impacts on soil and plant damage and regrowth. Encouragement to grow salt-tolerant species, particularly in areas considered to be of high risk. <p>Householders will be educated on the benefits of using detergents that are low in phosphorus, sodium and salt – in terms of the impact on recycled water quality. This will form part of the broad community education program.</p>					<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network and Stage AB WRP.</p> <p>GTPL has prepared an Irrigation Management Plan, as part of the WMP to address this condition. Refer to Appendix E of the WMP. Soil monitoring will be undertaken prior to commencement of operation of the WRP and once subdivision works have been completed in Neighbourhood 1A.</p> <p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network and Stage AB WRP, or operation of Stage A – Network as the WRP will not be operational.</p> <p>GTPL has updated its Community Education Strategy for Stage 1 of the Googong Township IWC Project in consultation with QCC and will arrange a meeting with NSW Health in the next reporting period. In addition QCC has prepared a RWQMP that also details education and consultation strategies. GTPL and QCC will continue to progress actions before the IWC Project moves into operation phase and recycled water is available to residents.</p>	
T1	Minimise disturbance to local traffic and amenity during construction.	<p>A traffic management plan will be prepared prior to the commencement of construction. It will detail traffic arrangements for the construction phase of the Project. This will include:</p> <ul style="list-style-type: none"> The use of standard mitigation and management controls. Planning of vehicle use to maximise efficiency and reduce vehicle trips. An education program for construction personnel in relation to local traffic arrangements (as per the plan) and local conditions (such as the intersection of Googong Dam Road and Old Cooma Road). Access to properties and provisions for temporary access. <p>A traffic control contractor will be engaged to implement the traffic management plan (such as partial road closures), where necessary specialist advice is required.</p>	GTPL and contractor	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p> <p>27-Aug-14</p>	<p>GTPL has prepared a Stage A – Network (west) Traffic Management Protocol (TMP) in accordance with this commitment and in consultation with the following agencies: QCC and RMS.</p> <p>GTPL has prepared a Stage A – Network (east) TMP in accordance with this commitment and in consultation with the following agencies: QCC, Palerang Council, and RMS.</p> <p>GTPL has prepared a Stage AB WRP TMP in accordance with this commitment and in consultation with the following agencies: QCC, EPA and RMS.</p> <p>GTPL has prepared a Stage B Network TMP in accordance with this commitment and in consultation with the following agencies: QCC, EPA and RMS.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
T2	Manage traffic, transportation and access with local authorities.	Traffic, transportation and access will be managed in consultation with relevant stakeholders, including QCC and the RTA, including impact mitigation and management measures to address partial road closures, access to properties and provisions for temporary access and re-instatement.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages TMP. Three Section 138 Certificates have been issued by QCC for works on Googong Dam Road under the <i>Roads Act 1993</i> . A TMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	http://compliance.googong.net/iwc/other-approvals.php
T3	Minimise the impact of transportation.	Any oversized or overweight loads will be transported in accordance with RTA guidelines and requirements.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages TMP. No permits have been required to date.	
T4	Minimise impact of traffic and access on stakeholders and the local community.	Councils, property owners and local community members will be informed of any potential loss of or disruption to access to properties, roads and/or pathways. Appropriate temporary measures to either provide alternative access or to reinstate access at the end of each workday will be negotiated with relevant parties.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through the mitigation measures detailed in the respective stages TMP.	
T5	Manage operational traffic, transportation and access to minimise impacts on local conditions.	A Traffic management plan will be prepared for the operation and maintenance of key water cycle infrastructure, which will include: <ul style="list-style-type: none"> Standard management and mitigation measures for managing vehicle movements at water cycle infrastructure sites. Timing of truck movements for deliveries and disposal, and parking arrangements. 	GTPL and contractor	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, or Stage AB WRP. A TMP for tankering operations during operation of Stage A – Network is included in the OEMP (refer Appendix E) which addresses these conditions. Routes, access arrangements, timing restrictions and parking arrangements are detailed in the TMP.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
V1	Minimise visual impact by maintaining existing vegetation where practical.	At relevant sites, existing vegetation will be maintained where practical and where appropriate. Additional vegetation will be planted along site boundaries to obscure views of infrastructure from sensitive receivers.	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east), Stage B Network and Stage AB WRP works and has been managed through mitigation measures detailed in the respective stages FFMPs and limiting clearing as much as practicable.</p> <p>Visual planting was included as part of the LMP for Stage A – Network, Stage B Network and Stage AB WRP. Replanting has been undertaken along Googong Dam Road for Stage A Network (west) including trees and shrubs around the aboveground cabinets at SPS1. Screen planting is not required for Stage A Network (east) given the distance of sensitive receivers.</p>	
V2	Minimise the visual impact of the reservoirs and access road (located on Hill 800).	<p>Visual impact of the reservoirs will be minimised through painting the structures a colour that will be chosen as the most compatible and/or appropriate with the surrounding environment and proposed Googong township.</p> <p>The landscaping approach for the reservoirs and associated access road will ensure minimal visual impact by:</p> <ul style="list-style-type: none"> ▪ Achieving the most appropriate finished landform profile of the top of the hill that integrates the reservoirs, ▪ Detailing siting and design of any elements over and above the reservoirs to minimise visibility (eg plant equipment, fencing, signage and lighting), ▪ Ensure the access road alignment is a careful balance of limited visible road profile and minimised cutting/embankment visibility where following contours, ▪ Considering the location and extent of tree groups to best mitigate visual impacts, and ▪ Considering soil and microclimate factors and amelioration to ensure healthy and rapid tree growth. 	GTPL	N/A	N/A	N/A	Condition not applicable to Stage 1 (ie Stage A and B). This condition will be met during detailed design phase of the permanent reservoirs (Stage C/D).	
W1	Practice responsible resource management during construction.	<p>The CEMP will address the principles of the resource management hierarchy (avoidance, resource recovery and disposal in that order) and disposal will be to a licensed waste facility. The CEMP will include the following:</p> <ul style="list-style-type: none"> ▪ Procedures to classify waste types in accordance with the Waste Classification Guidelines and NSW legislative requirements. 	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13	<p>GTPL has prepared a Stage A – Network (west) Waste and Resource Management Plan (WRMP) that outlines the principles of the resource management hierarchy. No waste management issues were recorded during the reporting period.</p> <p>GTPL has prepared a Stage A – Network (east) WRMP that outlines the principles of the resource management hierarchy. No waste management issues were recorded during the reporting period.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
		<ul style="list-style-type: none"> Resource recovery and re-use strategies for each waste type. Details of treatment and storage of on-site waste. Procedures and disposal arrangements for relevant materials. Reporting and recording requirements for all waste movements, allowing determination of recycling and re-use levels achieved. 				27-Aug-14	<p>GTPL has prepared a Stage AB WRP WRMP that outlines the principles of the resource management hierarchy. No waste management issues were recorded during the reporting period.</p> <p>GTPL has prepared a Stage B Network WRMP that outlines the principles of the resource management hierarchy. No waste management issues were recorded during the reporting period.</p>	
W2	Practice responsible resource management during operation.	<p>Operational management of wastes will be incorporated into the OEMP for the key sites. Some inclusions are procedures for:</p> <ul style="list-style-type: none"> The collection and transportation of grit and screenings from the WRP to an appropriately licensed facility. Treatment and handling of biosolids, suitable for use in agriculture, forestry, soil and site rehabilitation (Grade B), in accordance with OEH's Environmental Guidelines on the Use and Disposal of Biosolids Products (2007). Management and monitoring of the discharge of treated effluent (recycled water) during commissioning and verification phases of the WRP operation. Waste management for putrescible and recyclable wastes generated from the WRP and other water cycle infrastructure. Procedures for the collection and dewatering of any solid matter removed through maintenance activities of water cycle infrastructure, and transportation and disposal off site. Vehicle routes, and the timing of trips, associated with waste management, in consideration of the traffic management plan. 	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (east/west), Stage B Network and Stage AB WRP.</p> <p>GTPL has prepared an OEMP for Stage A – Network that includes mitigation measures to meet the requirements of this commitment. In addition a TMP (refer Appendix E of the OEMP for Stage A – Network) has also been prepared that details vehicle routes for sewage tankering from SPS1.</p>	
WQ1	Implement water quality and hydrology management procedures.	To reduce risks associated with water quality, soil and water management plans will be developed and implemented for the construction phase, via the CEMP, in accordance with <i>Managing urban stormwater: soils and construction, Volume 1</i> (the Blue book).	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12	<p>GTPL has prepared a Stage A – Network (west) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.</p> <p>GTPL has prepared a Stage A – Network (east) SWMP that outlines the management measures for erosion and sedimentation control in accordance with</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
						11-Dec-13 27-Aug-14	<p>this commitment.</p> <p>GTPL has prepared a Stage AB WRP SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.</p> <p>GTPL has prepared a Stage B Network SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.</p>	
WQ2	Minimise the risk of surface water contamination.	<p>A spill management and response procedures will be developed in the CEMP for the construction phase of the Project. These will specify that:</p> <ul style="list-style-type: none"> Any fuels and chemicals will be stored to meet relevant standards in bunded or contained areas and a spill kit will be provided at all locations where fuels and/or chemicals are used. Fuel and chemical storage sites will not be located in the vicinity of any permanent and/or flowing waterway. The maintenance or refuelling of equipment will not be undertaken within the vicinity (within 150m) of any waterway. 	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13 27-Aug-14	<p>GTPL has prepared a Stage A – Network (west) SWMP that outlines the spill management response in accordance with this commitment.</p> <p>GTPL has prepared a Stage A – Network (east) SWMP that outlines the spill management response in accordance with this commitment.</p> <p>GTPL has prepared a Stage AB WRP SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.</p> <p>GTPL has prepared a Stage B Network SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.</p>	
WQ3	Ensure bank stabilisation in construction sites.	<p>The CEMP will incorporate measures to ensure that creek banks are stabilised during the construction phase, such as:</p> <ul style="list-style-type: none"> Stabilising where required by establishing rocks, sandbags/ matting to prevent scouring, ensuring that they are placed to conform as far as possible with existing contours. Respreding topsoil over the area from where it was removed. 	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12	<p>GTPL has prepared a Stage A – Network (west) SWMP that outlines the measures to stabilise creek banks.</p> <p>GTPL has prepared a Stage A – Network (east) SWMP that outlines the measures to stabilise creek banks.</p> <p>There are no creek banks at the Stage AB WRP construction site.</p> <p>There are no creek banks at the Stage B Network construction site.</p>	
WQ4	Monitor impacts on waterways.	<p>A monitoring program to assess the potential impacts of the Project on the Queanbeyan River (including water quality, flow, fish migration, macrophytes and macro invertebrate communities) will be undertaken.</p> <ul style="list-style-type: none"> Details of the monitoring program will be determined in consultation with relevant government authorities/stakeholders (including the OEHL, DPI and, potentially, ACTEW Corporation). Such consultation will ensure the sharing of available data for the Queanbeyan River for comparative and impact assessment purposes. 	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, and Stage AB WRP.</p> <p>GTPL has prepared a Surface Water and Aquatic Ecology Monitoring Program as part of the WMP (refer CoA D8) to address this commitment.</p> <p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, and Stage AB WRP.</p> <p>The WMP was developed in consultation with the stakeholders listed in this condition – refer attached correspondence.</p>	Refer attached 'draft WMP agency consultation_2013'

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		<ul style="list-style-type: none"> A new monitoring site within the Queanbeyan River is proposed to measure water quality and aquatic ecology impacts over the medium term. This site will be located near the confluence of Googong Creek and Queanbeyan River (and will be sited to enable comparison with data collected from upstream and downstream sites). Monitoring will commence approximately 12 months prior to commissioning the water recycling plant. 					<p>Surface/groundwater monitoring commenced in September 2013 to allow for at least 12 months of monitoring prior to operation of the WRP. The WMP will be updated with the monitoring results, issued to agencies for review and submitted to DP&I for approval, prior to operation of the WRP. In total there are nine monitoring sites including near the confluence of Googong Creek and Queanbeyan River.</p> <p>Monitoring commenced in September 2013 which is more than 12 months from the scheduled commissioning date where recycled water would be discharged.</p>	
WQ5		The operation environmental management plan (OEMP) will outline erosion and sediment control measures to protect buffer and riparian vegetation zones, in general accordance with Statement of Commitment WQ3.	GTPL	N/A	N/A	N/A	Condition not applicable to the operation of Stage A – Network as it does not include discharge of water to the environment and so there are no additional risks to downstream vegetation zones.	