



# Compliance Tracking Report January to June 2015

## Googong Township Integrated Water Cycle Project

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Prepared by:

**RPS MANIDIS ROBERTS PTY LTD**

Level 9, 17 York Street,  
Sydney NSW 2000

T: 02 9248 9800  
F: 02 9248 9810  
E: infrastructure-solutions@rpsgroup.com.au

Prepared by: Kristen Foley/Katharine Bond  
Reviewed: Rob Salisbury  
Approved: Rob Salisbury  
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Prepared for:

**GOOGONG TOWNSHIP PTY LTD**

Level 3, 64 Allara Street  
Canberra ACT 2608

T: (02) 6230 0800  
F: (02) 6230 0811  
E:  
W: compliance.googong.net

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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The *Googong Township Water Cycle Project Environmental Assessment* (November 2010) (EA) was prepared under (the now repealed) Part 3A of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) to assess the impacts of construction and operation of infrastructure for the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 (commenced in October 2015).

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 annually 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 four construction compliance reports have been prepared for the period extending from January to June 2013, July to December 2013, January to June 2014, and July to December 2014. This Compliance Tracking Report has been prepared to assess compliance of the IWC Project for the reporting period of January to June 2015.

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 (January to June 2015). These stages are:

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

Note that this report covers the six month period from January to June 2015, including the operation of Stage A Network. GTPL are therefore exceeding the requirement for annual compliance reporting during operations. This has been done to align operational compliance reporting with six-monthly construction compliance reporting as construction and operational phases are occurring concurrently.

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 a temporary connection from the Icon Water water treatment plant, Bulk Water Pumping Station (BWPS), and the associated water main to Stage A Network (west), including a flow meter. This work is being constructed by Guideline ACT, under the supervision of Icon Water on behalf of GTPL.

A Construction Environmental Management Plan (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. Practical completion was awarded in May 2015.

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

- Ancillary works including retaining walls and landscaping.
- Installation of pipework and backfilling for in-ground services.
- Preparing flexible pavements, fencing, guardrail, electrical works for the crane pad and surrounds.
- Defect rectification and electrical works.
- Variation 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 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.

The Stage A Network (west) CEMP was revised to incorporate the booster facility works and was endorsed by the ER on 19 November 2014. Guideline ACT undertook these final works, commissioning and rectification activities during this reporting period. Practical completion was achieved in March 2015.

Further works are expected to be undertaken at SPS1 during the third quarter of 2015, including pump augmentation and construction of vent stacks.

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

- Construction, testing and commissioning of all associated works at the booster facility area at the interim reservoir site.

### 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 Icon Water'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 approximately seven tanker loads have been transferred to Coppins Crossing each day.

## 2.2 Construction – 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.

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 Stage AB WRP:

- Surveillance of sediment pond and environmental impacts.
- Dynamic shifting of stone lined swales in response to construction activities/excavation, and establishment of site overland flow lines to drain into basin.
- Ongoing maintenance to stabilised site access and swales, and shifting site roads.
- Maintenance works to stone check dams following rain events.
- Planning and development of out of hours work (OOHW) options for revision of standard contract hours in the Environment Protection Licence (EPL), and noise monitoring with OOHW commencement. This included identifying and negotiating with/notifying noise sensitive residents in the WRP area.
- Undertaking minor environmental erosion and sediment control works including shaping swales, and maintenance of concrete wash pit and stockpiles.
- Concrete pours for bioreactor construction components, feed averaging tank slab and walls, retaining walls (including core filling), motor control centre (MCC) building slab and wall, blower plinths, general purpose pump station (GPPS) walls, admin office slab and emergency detention tank roof west, chemical dosing concrete bunds, reduction equivalent dose suspended slab, recycled water tank slab, odour slab, sludge area and building (including core filling), tertiary treatment area slab, off-spec and filtrate, odour, truck and workshop, membrane bioreactor and intermediate bulk container.
- Epoxy coating works.
- Construction of admin/MCC/blower building including erection of structural steel and blockwork walls, and roof sheeting.

- Sediment basin water management.
- Dust suppression using a water tanker.
- Steel fixing and shutter erection.
- Construction of concrete structures.
- Roadworks in accordance with a Section 138 Certificate.
- Detailed excavation –MCC building, retaining walls, GPPS and chemical storage area (including saw cutting and material placed on stockpiles and shaping), and excavation for pipework.
- Construction of underground pipeline.
- Hydrostatic testing of liquid retaining structures. Static testing of tanks was completed in late May.
- Underground services near workshop and tertiary areas, and sections under retaining walls and cast-ins, off-spec and filtrate storage area.
- Backfilling of stockpile material around structures and pipework.
- Off-site discharge of portable water.
- Delivery and installation of equipment including major equipment and mechanical process equipment.
- Mobilisation of contractors to site (including underground services, mechanical process equipment and aboveground pipework and electrical, instrumentation and controls).
- Surveying.

## 2.3 Construction – Stage B Network

Stage B Network comprises the construction, testing and commissioning of 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 and was ongoing at the end of June 2015.

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

- Bulk and detail excavation works of tank area and wet well.
- Installation of tanks and backfill process at SPS2.
- Receiving manhole (MH) construction and wet well.
- Construction of wet well (pouring wet well stage 2 works) and junction.
- Set-out works for SPS2 dual rising mains.
- Installation of rising main works/jetting points for SPS2.
- Installation of wet well lid and internal benching, internal epoxy works on all structures at SPS2.
- Reworks of the rising main works between ch35 and ch350.

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## 2.4 Consistency assessments

One consistency assessment was prepared during the reporting period and issued to the ER and to DP&E. It involved the consideration of design changes from concept design for Stage AB WRP.

## 2.5 Modifications

There were no modifications submitted to DP&E during this reporting period.

## 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 of the construction and operation 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 68 nest boxes have been installed.
- Fencing of clearing exclusion zones and erection of signage (e.g. 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 Road (i.e. 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 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 shifting and shaping swales and stockpile maintenance, establishment of site overland flow lines, maintenance to stone check dams, maintenance of concrete wash pit, and water testing (turbidity) after rainfall events.
- Surveillance of sediment pond.
- A total of 14 nest boxes have been installed.
- Appropriate storage of chemicals and spill kits and bunding of sub-contractor vehicles that have containers of oils.
- Identifying noise sensitive residents in the WRP area and undertake noise monitoring in accordance with the Noise and Vibration Management Plan.
- 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.

### 3.4 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.
- A total of 41 nest boxes have been installed.
- 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 being constructed or operating during the period from January to June 2015. 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

Four non-compliances have been identified from the compliance review, which are summarised in Table 4.1. They relate to discharge of sediment-laden water from sediment ponds during wet weather events, fuel spills, sediment control failures, un-authorized access into a fenced area protecting Aboriginal artefacts, and failing to report a Category One incident (relating to a fuel spill) to the authorities within the required 24 hour timeframe in accordance with the Incident Response Procedure.

**Table 4.1** Non-compliances identified during January to June 2015.

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> .	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.  Five Category One incidents relating to discharge of sediment-laden water from sediment ponds during wet weather, fuel spills, and sediment control failures with 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 this Compliance Tracking Report.
B4	Erosion and Sediment controls consistent with Managing Urban Stormwater: Soils and Construction Manual (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.	Following a Category One incident on 17 June 2015, whereby sediment-laden water was discharged from the sediment pond at the WRP during wet weather, it was determined that the pond did not comply fully with the Blue Book due to its length to width ratio, as noted by the EPA. Further details on this matter are provided in Section 5.2 of this Compliance Tracking Report.

No	Condition	Comment
C1	<p>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>	<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 Two incident during the reporting period that relates to un-authorised access into a fenced area protecting Aboriginal artefacts. The incident was originally classified as a Category One incident, however was later downgraded as it was determined by an archaeological specialist that no impact to Aboriginal heritage items had occurred during the incident.</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>One Category One incident relating to a fuel spill at Stage AB WRP was not reported immediately to authorities. The incident occurred 31 March 2015, however was not reported to the relevant authorities until 1 April 2015, more than 24 hours after the incident had occurred. The Stage AB WRP CEMP Incident Report Flowchart requires incidents to be reported immediately and in writing within 24 hours.</p>

## 5 Environmental incidents

### 5.1 Categorisation 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 as detailed below:

Site	Date	Description
Stage AB WRP	11 January 2015	Discharge of sediment-laden water from sediment basin during wet weather
Stage B Network	14 January 2015	Sediment control failure
Stage AB WRP	31 March 2015	Fuel Spill at the gates of the WRP site
Stage AB WRP	08 April 2015	Discharge of sediment-laden water from sediment basin during wet weather
Stage AB WRP	17 June 2015	Discharge of sediment-laden water from sediment basin during wet weather

#### 5.2.1 Stage AB WRP – Discharge of sediment-laden water from sediment basin during wet weather

##### Description of incident

On 11 January 2015, the sediment pond located within the WRP construction footprint was observed to be overtopping during a site visit following substantial rain over the weekend (51.6 mm recorded at the Googong weather station from the evening of Friday 9 to lunchtime Sunday 11 January 2015). Sediment-laden water was observed to have left the Stage AB WRP construction site via a rock/gravel-lined spillway before entering some pipes within a drainage line that lie under the Stage B Network access track. The sediment-laden water eventually (after overcoming several erosion sediment controls) fed into a downstream pond (farm dam) located in the Googong Foreshore area. The farm dam was also observed to be overtopping.

As the sediment-laden water left the site, the incident was classified as a Category 1 event on the day. It is estimated that the WRP sediment pond may have overtopped for approximately six hours, with an estimated 300m<sup>3</sup> of sediment-laden water leaving the site.

The pond was treated with Polyaluminium Chloride and lime the following morning and largely emptied via the spillway by that afternoon. Water from around the WRP construction site was then dewatered into the WRP sediment pond two days after the incident occurred (13 January 2015). The pond was subsequently treated with Polyaluminium Chloride and lime and emptied by JHG via the spillway that afternoon.

An inspection of Stage B Network sediment and erosion controls was also undertaken 12 January 2015. The inspection indicated that a significant amount of silt had been caught by the silt fence, however there was damage to hay bales during the weekend flooding. Turbid water was also found in the drainage lines downstream of the sediment and erosion controls. It was therefore determined likely that the sediment-laden water continued along the drainage line beyond the sediment and erosion controls, however the water quality was improved where it was able to pass through these controls.

Identified causes of the incident include a rainfall event that exceeded the designed capacity of the WRP sediment pond (resulting in the overtopping), and the failure of sediment controls installed downstream of the sediment pond inside the WRP construction footprint, failing to contain the sediment-laden water from the overtopping dam onsite.

## Follow up actions and response

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

- Commencement of treatment of water in the WRP sediment pond on 12 January 2015. Discharge of the pond commenced in the afternoon and was largely emptied by the end of that day. The following morning, dewatering of the water from around the WRP construction site into the sediment pond was also undertaken and the pond was subsequently treated and emptied that afternoon.
- Silt fences were inspected and repaired to ensure functionality.
- Ongoing actions to be undertaken include maintaining swale drains to minimise inflows of water, and the inspection and repair of all erosion and sediment controls prior to forecast heavy rainfall events where required.

## Agency involvement

The incident was reported to EPA 11 January 2015 via the EPA hotline. A follow up email was then issued that afternoon to EPA, DP&E and QCC. An incident report was also provided to EPA, DP&E and QCC on 16 January 2015 along with a Root Cause Analysis (RCA). A letter from the EPA dated 19 February 2015 noted that as a result of its investigation, the EPA did not identify a breach of the EPL or the POEO Act. Erosion and sediment controls appear to have been adequately designed and constructed to contain the design rainfall event in accordance with the Blue Book.

ACT Territory and Municipal Services (TAMS) was notified of the incident via email on 13 January 2015, as manager of the Googong Foreshores on which the farm dam is located. The Commonwealth Department of Environment (DoE) was also notified of the incident via email on 13 January 2015. An incident report was issued to TAMS and DoE on 16 January 2015. An email received on 29 January 2015 from TAMS confirmed that no remedial works was required at the dam following the incident, and that any incident involving the dam would be dealt with on a case-by-case basis.

## 5.2.2 Stage AB WRP – Fuel Spill at the gates of the WRP site

### Description of incident

On Tuesday 31 March 2015, three litres of diesel spilt whilst site personnel from Coates Hire (a company hired to supply equipment for the WRP site) were off-loading an Elevated Work Platform (EWP) from a truck with a low tray outside the front gate of the WRP site. Two litres of the diesel spilt on the low bed tray and one litre of diesel spilt on the ground outside the front gate of the WRP site.

The fuel was immediately covered with 'absorb' material, contained and cleaned up.

The site superintendant notified GTPL and RPS of the incident 1 April 2015 via a site meeting and Aconex correspondence. It was determined that because the spill occurred outside the WRP site boundary, the incident was to be classified as a Category 1 Incident. DP&E, QCC, EPA, and ER were subsequently notified of the incident via phone and email on 1 April 2015.

The causes of the incident were that there was no cap on the fuel tank (which had not been identified by site personnel before off-loading). The plant operator replaced the cap with a rag and continued to offload, however rag was dislodged leading to the fuel spill. There was also a failure to report the incident immediately (i.e. within 24 hours) to the relevant authorities as is required under the Stage AB WRP CEMP Incident Report Flowchart. The incident occurred on 31 March 2015, however was not reported until 1 April 2015, more than 24 hours after the incident occurred.

### Follow up actions and response

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

- JHG conducted a toolbox talk on the Environmental Incident Reporting Flowchart to all onsite staff and explain the importance of avoiding construction related activity and impacts and notification requirements.
- A new plant checklist was established for all vehicles entering or unloading on site. This document can be used when new plant or equipment arrives on site and the checklist can include both safety and environmental requirements to be conducted by the site superintendant or supervisor.

### Agency involvement

RPS (on behalf of GTPL) notified DP&E, QCC, EPA and ER by phone call and email correspondence on 1 April 2015.

An incident report was prepared and issued to DP&E, QCC, EPA and ER on 2 April 2015, along with a RCA.

## 5.2.3 Stage AB WRP – Discharge of sediment-laden water from sediment basin during wet weather

### Description of incident

On 8 April 2015 at 6am, WRP site personnel observed that the sediment pond onsite had overflowed and sediment-laden water had escaped the basin and left the project site. This incident followed a period of significant rainfall (62.5mm recorded at the Googong weather station in the previous 24 hours). However an inspection of the sediment pond 7 April 2015 found that the rainfall had been adequately captured by the basin and that maintenance was not required. Further rainfall commenced 09:30am Tuesday 7 April 2015.

It was determined that the water flowed downstream and was captured in a farm dam in the Googong Foreshores land (Commonwealth Land managed by the ACT TAMS on behalf of the ACT under formal lease agreement with the Commonwealth). Sediment-laden water was observed to have left the Stage AB WRP construction site via a rock/gravel-lined spillway. It then entered some pipes with a drainage line that lie under the Stage B Network access track, passing through/around sediment controls and eventually continued along the drainage line and feeding into a downstream pond (farm dam) located within the Googong Foreshore area. It was estimated that approximately 600m<sup>3</sup> of sediment-laden water overtopped the sediment pond and left the site.

Site personnel immediately checked all of the downstream controls to ensure they were all in place and suitably maintained. Maintenance of the sediment pond was undertaken including flocculation of the pond contents, and an incident report was logged in accordance with the CEMP.

The WRP Superintendent, ER and RPS were notified on the morning of 8 April 2015. RPS then commenced formal notification of a Category 1 incident and notified (via phone and email) DP&E, EPA and QCC of the incident. A notification email was also issued to the Commonwealth DoE and TAMS 10 April 2015.

The cause of the incident was determined to be significant rainfall (62.5mm compared to the monthly average for April of 46mm) that exceeded the design capacity of the WRP sediment pond (the sediment pond had full capacity at 6am Tuesday 7 April).

## Follow up actions and response

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

- Treatment of the WRP sediment pond commenced 9 April 2015.
- Discharge of the sediment pond commenced 13 April, largely emptying by the end of the day. The treated water was discharged via the rock/gravel-lined spillway to then enter the pipe underlying the Stage B Network access track and through the sediment and erosion controls.
- Silt fences were inspected and repaired where required.
- Ongoing actions to be undertaken including maintenance of swale drains to minimise inflows of water, and the inspection and repair/replacement of erosion and sediment controls prior to forecast heavy rainfall events where required, and in accordance with the Stage AB WRP Soil and Water Management Plan.

## Agency involvement

RPS commenced formal notification of a Category 1 incident and reported the incident via phone and email to DP&E, EPA and QCC 8 April 2015. An incident report was then provided to DP&E, EPA and QCC on 10 April 2015. A RCA was provided to QCC, EPA and DP&E on 15 April 2015. An email from the EPA dated 22 April 2015 noted that no breach of the EPL or the POEO Act was identified in this instance and as such no further action was to be taken in relation to this incident.

A notification email was also issued to DoE and TAMS 10 April 2015, with the subsequent RCA provided on 15 April 2015.

## 5.2.4 Stage AB WRP – Discharge of sediment-laden water from sediment basin during wet weather

### Description of incident

The sediment pond located within the WRP construction footprint was observed to have begun overtopping at approximately 12.45pm on 17 June 2015, following sustained rainfall from 1.00am on Tuesday 16 June 2015 (approximately 54 mm recorded at the Googong weather station). The JHG Project Manager witnessed the event at this time during a site inspection which was undertaken due to the weather conditions.

Sediment-laden water was observed to have left the construction site via a rock/gravel-lined spillway, entering some pipes within a drainage line beneath the Stage B Network access track and eventually passing through/around sediment controls and into a downstream pond (farm dam) located within the Googong Foreshore area. The farm dam was also observed to be overtopping. JHG estimates that potentially 100 m<sup>3</sup> of sediment-laden water overtopped the sediment pond and left the site.

GTPL, RPS and the Site Superintendant were notified of the incident 16 June 2015. RPS then (on behalf of GTPL) reported the incident to EPA, DP&E, QCC, the ER, TAMS and the Commonwealth DoE that afternoon.

Overtopping on the pond ceased overnight between 6.00pm Thursday 18 June and 6.00am Friday 19 June. Management of the sediment pond then commenced Friday 19 June 2015, when the pond was treated with 150 litres of Alchor Premium and 110 kg of lime at 8:10am. Discharge of the pond commenced at 1:50 pm. TAMS confirmed no remedial action was required at the downstream pond (farm dam) located in the Googong Foreshore area.

Causes of the incident include rainfall exceeding the design capacity of the sediment pond (significant rainfall of 54mm over a 36hour period exceeded the designed capacity of the pond), and sediment controls not designed for the high flows experienced during this period (e.g. silt fencing which is designed to filter flows from slower runoff events).

### Follow up actions and response

On 19 June 2015, JHG commenced treatment of the sediment pond. Discharge of the pond commenced that afternoon and it was completely emptied by the end of the day. The treated water was discharged around all sediment controls and under the access road via a lay-flat house from the pump. The sediment controls were also inspected and repaired where required to ensure their functionality.

The following ongoing actions will continue to be undertaken:

- Maintain swale drains to minimise any inflows of water to job site.
- Inspect and repair/replace (as required) all erosion and sediment controls onsite prior to forecast heavy rainfall events, in line with control measure SW6 in the *Stage AB WRP Soil and Water Management Plan*.

### Agency involvement

RPS (on behalf of GTPL), reported the incident via phone and email to EPA, DP&E and QCC 17 June 2015. An incident report was also provided later that day and a RCA issued 24 June 2015. The EPA attended the site on 30 June 2015, and provided an email on 9 July 2015 which noted the following:

- The rainfall event exceeded the design capacity of sediment and erosion controls in place at the WRP site.

- Erosion and sediment controls appear to have been adequately designed and constructed to contain the design rainfall event in accordance with the Blue Book (the 85th percentile 5-day rainfall event for Queanbeyan is 25.8mm).
- The EPA is satisfied the WRP sediment pond was actively managed by GTPL contractors to reduce water levels prior to the storm event.
- The EPA has concerns the WRP sediment pond design (being more round in shape than rectangular) does not meet the requirements stated in the Blue Book.

Furthermore, the EPA requested that GTPL provide further evidence detailing how the WRP sediment pond is compliant with Blue Book standards.

GTPL provided a letter in response to EPA's query on 6 August 2015. The letter acknowledged that the sediment pond did not comply fully with the Blue Book due to its length to width ratio, as noted by the EPA. To rectify this issue, baffles were to be installed within the pond to lengthen the flow path between inlet points and the outlet.

A notification email was issued to the ER, TAMS and DoE on 17 June 2015. TAMS confirmed in an email on 19 June 2015 that no remedial action was required at the farm dam located within the Googong Foreshore area. The RCA was issued to the ER, TAMS and DoE on 24 June 2015.

## 5.2.5 Stage B Network – sediment control failure

### Description of incident

At 7.00am on Wednesday 14 January 2015, The Guideline Project Engineer observed that sediment controls (sediment ponds and earthen check dams) upslope of the Stage B Network construction had failed overnight due to heavy rainfall leading up to the incident (55.6mm from 9 to 11 January and 16.4mm on 13 January 2015 recorded at the Googong weather station).

The sediment control failure enabled water and sediment to enter the Stage B Network construction site, fill the excavated areas (which were empty prior to Tuesday evening) and damage sediment controls. Sediment-laden water was observed to have left the construction site and had entered a downslope sediment pond associated with the Googong Township subdivision works. The downslope sediment basin subsequently overtopped, discharging into Montgomery Creek

All contract works ceased and rectification commenced, ensuring all protective measures and additional environmental controls were implemented. Management of the sediment-laden water commenced in the afternoon, and the water was treated with aluminium sulphate and gypsum prior to discharge following discussion with the ER. Discharge of the treated water (captured within the excavated areas) commenced 15 January 2015.

Huons commenced remedial actions 14 January 2015, with silt fences and check dam walls reinstated where damaged, and all sediment ponds flocculated over the next few days.

The incident was classified as a Category 1 incident following an inspection by the ER on 14 January 2015. EPA also carried out an inspection of the incident area that afternoon.

QCC was notified of the erosion and sediment control failures within the Googong Township subdivision works by the Huon Project Manager on 14 January 2015. QCC came out to site at 1pm and inspected these erosion and sediment controls. Discharge of the subdivision sediment ponds commenced 16 January 2015 following testing.

The causes of the incident were identified as significant rainfall (a total of 72mm) that exceeded the designed capacity of offsite erosion and sediment controls, and failure of on-site sediment controls (due to the volume of water directed through the damaged section of the upslope check dam on the subdivision site).

### Follow up actions and response

On 14 January 2015, 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.

On 14 January 2015, Guideline ACT also commenced treatment and discharge of the sediment-laden water within the SPS area with the assistance of the ER, as outlined above.

As mentioned above, the subdivision contractors dewatered their sediment ponds following flocculation and testing. They also topsoiled and grassed the completed subdivision blocks in Stage 4 of the development to reduce runoff in future rain events.

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*.

### Agency involvement

The incident was reported by phone and email to the EPA, DP&E and QCC on 14 January 2015. An incident report and RCA was then provided to EPA and DP&E on 20 January 2015. A letter from the EPA dated 19 February 2015 noted that as a result of its investigation, the EPA did not identify a breach of the EPL or the POEO Act. Erosion and sediment controls appear to have been adequately designed and constructed to contain the design rainfall event in accordance with the Blue Book.

QCC was notified of the erosion and sediment control failures within the Googong Township subdivision works by the Huon Project Manager 14 January 2015. A RCA and incident report were issued to QCC on 20 January 2015.

## 5.3 Category Two incidents

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

**Table 5.1** Category Two incidents recorded during the reporting period

Site	Date	Description
Stage A Network East	2 February 2015	Septic tank overflow
Stage AB WRP	6 February 2015	Septic tank overflow
Stage A Network East	9 February 2015	Concrete washout at Guideline site compound
Stage A Network East (operation)	26 February 2015	ISS Sewage Truck Accident
Stage A Network East	Observed 19 June 2015	Unauthorised access to Aboriginal site

### 5.3.2 Stage AB WRP – Septic tank overspill

Approximately 50 Litres of sewage spilt/burst from the sewer tank on 6 February 2015 during a routine suck out/cleaning of the septic tank. The area affected included the concrete floor between store containers (8m x 2m), up the container walls and on the septic tank lid and small area of hardstand. The spill/burst was contained on the site hardstand area with no potential for it to leave site or reach natural ground surfaces.

The cause of the incident was the pumping mode rather than sucking mode being selected on truck controls. Pumping ceased immediately and lime was spread on the affected area. Other cleanup activities included washing down the affected areas whilst sucking up wash water. Subsequently no wash water left the site.

### 5.3.3 Stage A Network East (operation) – ISS Sewage Truck Accident

On 26 February 2015, a 20 Kilolitre tanker containing sewage had an accident just past a roundabout near the Royal Military College Duntroon, ACT, en route to the Coppins Crossing disposal point. No sewage spilt immediately, however a crack formed in the tanker after the accident and a small leak started to occur.

The leak was immediately contained via a sucker truck that arrived on site in response to the accident. All sewage potentially leaking out of the tanker was then removed by a sucker truck before making contact with the ground. All sewage was fully contained at the site. Follow up actions included the preparation of an incident report by the contractor and issued to QCC, EPA and DP&E.

The cause of the incident was found to be another vehicle driving into the lane of the truck/tanker causing it to take evasive action resulting in the load surging/moving and loss of control of the vehicle.

### 5.3.4 Stage A Network East – Un-authorized access to Aboriginal site

Upon undertaking an inspection of a temporary stockpile on 19 June 2015, Icon Water personnel observed track-marks from a metal-treaded vehicle (presumed excavator) crossing through a fenced area protecting Aboriginal artefacts. The incident is likely to have occurred in May 2015 based on aerial photography, with temporary fences being replaced by unknown persons.

The site gate was subsequently locked and additional signage erected ensuring there was no further un-authorized access to the site.

An inspection of the incident area was undertaken Navin Officer on 23 June 2015, finding that all artefacts within the site were several metres to the south of the vehicle tracks and that the vehicle did not harm any known artefacts within the fenced area.

A Category One incident was initially raised to OEH, DP&E and QCC on Friday 19 June 2015. However the classification was later downgraded to a Category 2 incident due to the determination that no unauthorised impact to Aboriginal or non-Aboriginal heritage items occurred.

Further follow up actions included undertaking additional education/training of contractors with regards to construction areas and protection of heritage sites and the Googong Foreshores area.

### 5.3.5 Stage A Network East – Septic tank overflow

A septic holding tank at the Guideline site compound overflowed (by approximately 50-100 Litres) at 3pm on 2 February 2015, causing diluted effluent from the septic holding tank to overflow onsite. However the effluent was contained to the bunded area surrounding the holding tank and did not leave the site

A contractor was contacted immediately to pump the holding tank and all cisterns within the toilet block were replaced with new items to avoid further incidents.

The incident was reported via phone to DP&E, EPA and QCC on 3 February 2015.

The cause of the incident was determined to be a faulty toilet cistern, allowing water to pass through the pan constantly, filling the holding tank.

### 5.3.6 Stage A Network East – Concrete washout at Guideline site compound

In the week beginning 9 February 2015, a concrete agitator truck was washed out onto open ground in the site compound. The waste concrete was contained on site adjacent to a spoil stockpile to be collected.

However, the issue was not raised until an ER inspection was undertaken on 20 February 2015. The incident was subsequently classified as a Category Two incident on the basis that the waste concrete was not effectively collected, stored, and treated.

The causes of the incident were identified as including the use of excessive water use without appropriate bunding to contain the run off.

Follow up actions include ensuring that future concrete pours have facility to washout in bunded areas to prevent further incidents.

## 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

GTPL submitted an audible OOHW application to DP&E 1 April, and concurrently submitted a request to EPA to vary the existing EPL to permit the OOHW. The application was approved 10 April 2015 as DP&E was satisfied that the noise associated with the proposed out of hours works would be restricted to daylight and early evening purposes and that a written agreement would be obtained from the noise affected receivers prior to the works commencing.

Sensitive noise receptors were identified in the WRP catchment (Stage AB WRP site) and negotiations undertaken with residents due to planned OOHW following the revision of standard contract hours in the EPL. OOHW commenced May 2015, and noise monitoring was conducted at R11 and R14 for internal purposes.

Further noise monitoring was then conducted at R14 on 6 June 2015 for internal purposes. No adverse noisy construction activities or works were conducted during the OOHW period and no complaints from sensitive receivers were received.

### 6.3 Nest box installation and clearance monitoring

No nest box installation or monitoring, or vegetation clearance monitoring was undertaken during the reporting period.

### 6.4 Construction-related water monitoring

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

- 20 December 2014 – 04 January 2015 – Daily surveillance of the site. Sediment pond management with capacity reached after rainfall. Water was treated and discharged off site 28 December 2014.
- 11 January 2015 – Sediment pond capacity was reached after a rain event. Water was treated 12 January 2015. Water was discharged off site after reaching the required criteria.
- 12 January 2015 – Sediment pond was treated after rain event (on 11 January 2014). Water was treated and discharged off-site after reaching the required criteria.
- 13 January 2015 – Treatment of sediment pond continued following rain event on 11 January 2015. The remaining water was discharged after reaching the required criteria. Full capacity was restored.
- 15 January 2015 – Sediment pond was treated after a rain event. The water was treated and discharged off site after reaching the required criteria.
- 23 – 26 February 2015 – Small volume of water collected in sediment pond (less than 25%) over the period and was re-used on site for dust suppression within a five day period.

- 2, 18, 23 and 24 March 2015 – Sediment basin water management undertaken following rainfall. Small volumes were collected in each sediment pond after each event. Water was reused on site for dust suppression within a five day period and there was no discharge of water offsite.
- 8, 13, 15, 17, 20, 22, 23 April 2015 – Sediment basin water management undertaken following rainfall during several periods in April. On 08 May 2015 the sediment basin overtopped due to rain exceeding the design capacity of the basin. Water in the sediment pond was reused on site for dust suppression, wetting up crusher dust, road base materials, and discharged off-site when test results were within acceptable limits.
- 29 April 2015 – Hydrostatic testing of potable water was undertaken. Water was discharged off site upon reaching required criteria.
- May 2015 – Small volumes of water collected in sediment basin following periodic rainfall during this period. Water was used for dust suppression on site roads, adding moisture to crusher dust and back fill operations for compaction purposes. No off-site discharge of sediment basin water during this period.
- May 2015 – Hydrostatic testing of potable water was completed in late May. Water was discharged off site from tanks following notification to the superintendant prior to each event.
- 15 – 19 June 2015 – Water in sediment basin was treated following a rain event leading up to 17 June 2015. Due to the rainfall, the design capacity of the sediment basin was exceeded and water overtopped the basin. Discharge of the water was from the sediment basin commenced 19 June 2015 upon reaching required criteria.

Water monitoring (testing of parameters such as turbidity and pH) of Stage B Network site (SPS2) was undertaken from January to March 2015. It was checked by the ER on 23 January, 6 February, and 6 March 2015.

## 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/Icon Water 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

An interim Water Management Plan (and associated sub-plans) (to meet CoA D8 of the Part 3A Project Approval) was developed in the absence of established baseline data for environmental components like soil, surface water and groundwater characteristics. It prescribed the methodology and requirements for the baseline survey. The interim WMP was written in December 2013, and was approved for use by DP&E. It was considered appropriate for commencement of monitoring but required update and amendments following completion of 12-months of baseline data.

Accordingly, the Water Management Plan (and sub-plans) is currently being reviewed, updated and provided to DP&E for approval following the undertaking of the baseline monitoring (commenced in September 2013 and completed in December 2014). Final approval of the WMP is required prior to operation of the WRP and the reuse of recycled water and/or discharge of excess recycled water to the environment.

Two water-monitoring stations (for water quality) were installed along the Queanbeyan. 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**

Guideline ACT staff conducted fortnightly inspections of Stage A Network (west) during January 2015 while construction was being undertaken.

##### **Environmental Representative inspections**

The ER conducted two inspections in January 2015. The ER prepared reports that outlined observations and recommendations for Woden Contractors to implement. A review of the documentation has indicated that the ER did not recommend any actions during the reporting period.

A review of changes made to the CEMP was also undertaken in March 2015. The ER determined that the changes were minimal in nature and subsequently endorsed the updated version of the CEMP.

In summary, the ER's observations 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.

During the reporting period, the ER also advised on management of spills/fuel leaks (including small oil spills), and the repair/replacement of sediment fences around stockpiles (including the temporary heritage stockpile).

In summary there was one Category Two incident investigated by the ER relating to the recent washing out of a concrete agitator truck onto open ground in the site compound on 13 February 2015 (refer to Section 5.3). The ER determined the waste concrete was not effectively collected, stored and treated, advising that the concrete deliverer should use the waste disposal facility on site and return all concrete waste to the local batching plant for treatment and re-use. A concern was also raised about the long-term management of batters and drains behind the DN1800 connection, and a fuel leak from diesel compressor. However, a review of the documentation has indicated that aside from the above concerns/incidents, most of the ERs observations and recommended 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 (H<sub>2</sub>S) with staff wearing personal H<sub>2</sub>S detectors at all times at SPS1.

### 7.1.4 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 conducted fortnightly inspections of Stage AB WRP throughout the reporting period. The ER prepared reports that outlined observations and recommendations for JHG to implement.

During the reporting period, the ER also advised on revisions to the CEMP and development of a new Site Environment Plan (SEP) (for pipeline works), finalising records for sediment pond/rain fall management, management of leaks/spills (including oil/fuel, water, slurry), documentation relating to water quality testing and treatment activities and dewatering permit, management of erosion and sediment controls (including the sediment basin), removing material from open drains, management of waste (litter, grease cartridges), and management of product on site (SDS sheets).

An unscheduled inspection by EPA was also undertaken 30 June 2015. Two EPA officers attended the site visit and inspected the sediment basin and WRP works, escorted by the JHG Superintendent. No issues were raised during the inspection.

In summary, despite the occurrence of one Category Two and four Category One incidents in Stage AB WRP during the reporting period (refer to Sections 5.2 and 5.3), the ER's observations and recommended actions were mostly minor in nature and addressed by GTPL and the contractor.

### 7.1.5 Stage B Network (construction)

#### Weekly inspections

Guideline ACT staff conducted weekly or fortnightly inspections of Stage B Network during the reporting period.

## Environmental Representative inspections

The ER conducted fortnightly inspections of Stage B Network during the reporting period. The ER prepared reports that outlined observations and recommendations for Guideline ACT to implement.

During the reporting period, the ER also advised on installation/rectification of erosion and sediment controls (including installation of sediment fencing and straw bale filters, adjustment of temporary drainage and sediment controls), management/prevention of spills and leaks (including hydraulic fluid, oil drips/stains, oil drums on bunded pallets, re-instatement of flooring at equipment storage container), keeping accurate records on site (water/waste discharge), management of the concrete wash out pit (effectively lined), assessing protection arrangements around vegetation (exclusion fencing, identifying tree removal), and waste management (grease containers, rags).

A non-compliance issue was identified during an inspection by the ER on 5 June 2015, in which a Safety Data Sheet (SDS) was missing from the SDS register for a substance that was being used on site. The substance was a waterproofing compound named XYPEX PATCH'N PLUG which is an environmental hazard if disposed of in large quantities. The ER recommended that the missing SDS be replaced to ensure compliance with mitigation measure #HRS7 in the Hazards, Risk and Safety Management Plan.

In summary, there was one Category one incident relating to the failure of sediment controls upslope of the Stage B Network site on 14 January 2015 (refer to Section 5.2). However a review of the documentation has indicated that aside from the Category One incident and the non-compliance issue mentioned above, most of the ER's observations and recommended actions during the reporting period were of a minor nature and were addressed by GTPL and the contractor.

## 7.2 Audits

An internal environmental audit of the IWC Project was conducted by RPS on 15 and 16 April. It involved a review of contractor documentation (including EPL, CEMP, OEMP, environmental policies, etc); implementation of the CEMP and OEMP; project close-out (including a review of all close out procedures for Stage A Network (east)); a site visit; and a close out meeting to discuss audit findings.

Recommendations were made in relation to communicating environmental constraints (making constraints maps available, toolbox talks), documenting responsibilities and document management (close out actions for Stage A Network (east), toolbox talk system records, Root Cause Analysis reports for AB WRP incidents), protection measures for environmental constraints (fencing for heritage and ecology), amendments to landscape management plans (weed updates), making all required document available on site (Project Approval and EPBC approval, updated CEMP and sub plans), amendments to flora and fauna management plan and implementation on site (management of African lovegrass and weeds in Stage AB WRP).

In summary, most of the recommendations made during the internal audit were minor in nature and have been actioned by GTPL, the contractors and RPS as required.

The ER conducted an independent environmental audit of the IWC Project on 5 and 6 May 2015. It involved a review of the implementation of the CEMP and sub-plans during a site visit.

There were four Corrective Action Requests (CARs) and 10 Observations of Concern (OOC) identified during the independent environmental audit for the Stage AB WRP, Stage B Network and Stage A Network (east) 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
<b>Correction Action Requests</b>			
1	4.2	JHG was unable to provide documentary evidence to confirm that mitigation measures WR5, WR8 and WR10 from the WRMP were being implemented. It is recommended that JHG update project records to verify that all waste and contaminants (including contaminated material such as oil stained dirt or used spill kit items) were disposed of at a licensed facility and that all sewage removed from site was sent to a local sewage treatment plant by a licensed contractor (Stage AB WRP).	<p>The CAR was raised as a SQE Action by JHG. A review of waste sub-contractors was undertaken to verify that any waste disposed of offsite has gone to a facility that is licenced to accept the waste and the haulage contractor is also licenced.</p> <p>All sub-contractors have licences for transport in NSW and ACT.</p> <p>Attachments associated with the CAR (i.e. licenses) are available to view by the auditor when visiting site.</p>
2	4.3	Guideline ACT was unable to provide documentary evidence to confirm that mitigation measures WR5, WR8, and WR10 from the WRMP were being implemented. It is recommended that Guideline ACT update project records to verify that all waste and contaminants (including contaminated material such as oil stained dirt or used spill kit items) were disposed of at a licensed facility and that all sewage removed from site was sent to a local sewage treatment plant by a licensed contractor (Stage B Network).	<p>Guideline ACT has received an updated EPA licence from all three waste facilities: ACTQ for sewage removed from the site facilities; ACT for recycling; and Cleanway which Guideline ACT send all general contaminated waste material.</p> <p>Evidence of licenses were provided to the auditor.</p>
3	4.4	Guideline ACT could not provide documentary evidence to confirm mitigation measure WR3 from the WRMP was being implemented. It is recommended that Guideline update project records so that it is known what spoil was collected for recycling or reuse, including the spoil amounts, date, time and location of disposal (Stage A Network (east)).	<p>Under Guideline ACT BMS and CEMP appendix Q, Guideline ACT internal forms and procedures, all waste removal is documented on the waste register.</p> <p>Documentation relating to the spoil removed offsite was recorded daily and documented in a spreadsheet so that Guideline ACT could check material movement and production. Evidence of documentation was provided to the auditor.</p>

No.	Section of report	Details	Follow up action
4	4.4	Guideline ACT could not confirm mitigation measures WR4, WR7 and WR10 from the WRMP were being implemented. It is recommended that Guideline ACT update project records to verify that all waste and contaminants (including contaminated material such as oil stained dirt or used spill kit items) were disposed of at a licensed facility and that all sewage removed from site was sent to a local sewage treatment plant by a licensed contractor (Stage A Network (east)).	Guideline ACT has received an updated EPA licence from all three waste facilities: ACTQ for sewage removed from the site facilities; ACT for recycling; and Cleanway which Guideline ACT send all general contaminated waste material. Evidence of licenses were provided to the auditor.
<b>Observation of Concern</b>			
1	4.1	Upon observation of the Googong compliance website, there was no indication that the CIP was prepared in consultation with the QCC. During the audit, GTPL could not provide documentary evidence to confirm that the CIP had been prepared in consultation with the QCC (GTPL documentation).	The CIP has been updated to include details of consultation with QCC. The updated CIP was provided to the auditor.
2	4.1	Documentary evidence provided by GTPL in the audit confirmed the DG was satisfied with the CIP. However this correspondence is not referred in version 4.0 of the CIP which is currently published on the Googong compliance website (GTPL documentation).	The CIP has been updated to include details of approval by the DG. The updated CIP was provided to the auditor.
3	4.1	GTPL could not provide documentary evidence to show that the complaints register is structured so that it records the information described in project approval administrative condition number A16 which forms part of the project approval issued under Section 75J of the <i>Environmental Planning and Assessment Act 1979</i> (GTPL documentation).	Evidence of how complaints have been received and recorded to date, as registered in the Consultation Management System was provided to the auditor.

No.	Section of report	Details	Follow up action
4	4.1	GTPL could not provide documentary evidence to show that an implementation Committee had been established to oversee the implementation of the Googong Foreshores Interface Management Strategy, which is a requirement of condition 3 of the approval issued under sections 130(1) and 133 of the <i>Environment Protection and Biodiversity Conservation Act 1999</i> . (GTPL documentation).	Evidence of Committee meeting minutes to date, as well as attendee details were provided to the independent auditor.
5	4.2	Despite all of the events been considered closed by JHG, none of the environmental incidents listed on JHG's event tracking system (known as the JHET system) had been 'signed-off (Stage AB WRP)'.	This Observation of Concern (OoC) has been raised as a SQE Action by JHG. The SQE Action noted that the remaining environmental incidents require sign off. The SQE Action has now been completed. All environmental incidents/events raised on this project have been closed and signed off.  The attachment associated with the OoC (i.e. register showing closed out incidents) is available to view by the auditor when visiting site.
6	4.3	The Site Environment Weekly Checklists for much of the project period have not been adequately completed by Guideline ACT, in that most of the checklists held on site were not initialed or dated to indicate that action(s) had been completed (stage B Network).	Noted. Observation that the Site Environment Weekly Checklists for much of the project period had not been adequately completed by Guideline ACT as per their Business management system. This has been addressed and discussed with site foreman to avoid this issue in future.
7	4.3	The Environmental Control Plan Register held by Guideline ACT was not up-to-date (stage B Network).	Noted observation and Guideline ACT will monitor any changes or design issues which would affect the environmental control plan register.
8	4.3	The dewatering records held by Guideline ACT did not include the volume of water discharged (stage B Network).	Noted observation. This has been addressed, and the records have been updated to show volume of water being discharged.  The updated dewatering record is available to view by the auditor when visiting site.
9	4.4	The Non-conformance/Corrective Action Report prepared by Guideline ACT for the temporary spoil stockpile that covers a heritage site known as GWTP3 was closed, yet the issue concerning the relocation of the temporary spoil stockpile has not been finalised (Stage A Network (east)).	RPS/Icon Water are managing the temporary spoil stockpile issue. RPS provides a weekly progress report to GTPL, as well as OEH/DP&E. This has now been noted on the Non-Conformance/Corrective Action Report.  The Non-Conformance/Corrective Action Report is available to view by the auditor when visiting site.

No.	Section of report	Details	Follow up action
10	4.4	The Site Environment Weekly Checklists for much of the project period had not been adequately completed by Guideline ACT, in that most of the checklists held on site were not initialed or dated to indicate that action(s) had been completed (Stage A Network (east)).	Noted. Observation that the Site Environment Weekly Checklists for much of the project period had not been adequately completed by Guideline ACT as per their Business management system. This has been addressed and discussed with site foreman to avoid this issue in future.

## 8 Environmental complaints

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

## 9 Conclusion

This Compliance Tracking Report has been prepared for the reporting period that extended from January to June 2015 for the construction and operation of Stage A – Network (west/east), construction of Stage AB WRP, and the construction of Stage B Network.

As part of this review, four non-compliances against the IWC Project's CoA were identified. The non-compliances related to:

- Sediment control failure upslope of Stage B Network following heavy rainfall, causing water to discharge into Montgomery Creek.
- Multiple sediment basin overtops at Stage AB WRP causing sediment laden water to enter a downstream pond (farm dam) in the Googong Foreshore area.
- The design of the sediment pond at the WRP not complying fully with the Blue Book due to its length to width ratio.
- Diesel fuel spill while offloading equipment outside the front gate of the Stage AB WRP site and failure to report the incident to the authorities within the required 24 hour period.
- Unauthorised access to a fenced off Aboriginal site at Stage A Network (east)
- Failing to report a Category One incident (relating to a fuel spill).

Following the sediment control failure at Stage B Network, all works ceased and rectification of sediment controls was undertaken (refer to Section 5.2.5). In addition, the water was treated and discharged following discussions with the ER. Given the sediment failures occurred up slope from Stage B Network, QCC were notified of the failures within the Googong Township subdivision works. Discharge of the subdivision ponds was subsequently undertaken.

For the sediment basin overtop events at Stage AB WRP, a number of actions were raised in the root cause analysis report involving the treatment and discharge of water from the sediment pond and adjacent farm dam in the Googong Foreshores area in consultation with the property manager (ACT TAMS) (refer to Sections 5.2.1, 5.2.3, and 5.2.4). Sediment controls were also inspected and repaired where required, to ensure functionality and ongoing inspections and maintenance of swale drains and erosion and sediment controls.

Actions undertaken following the diesel fuel spill outside the front gate of Stage AB WRP site included the immediate containment and clean up of the spill to prevent harm to the environment (refer to Section 5.2.2). Further actions involve the development of a new plant checklist, to include both safety and environmental requirements when new plant or equipment arrives on site.

In relation to the unauthorised access to a fenced area protecting Aboriginal artefacts in Stage A Network (east), several follow up actions were identified. These include internal investigations to determine the contractor responsible, and additional training of contractors with regards to construction areas and protection of heritage sites and the Googong Foreshore area.

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

# 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. One consistency assessment was prepared and submitted by GTPL to DP&E during the reporting period (24 April 2015). Refer to Section 2.4 of the Compliance Tracking Report for more information.	Refer attached 'Consist_Rev – WRP_design_updates_Rev0_150423'.
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.	

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion date	Comment	Verification
	<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"> <li>▪ 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;</li> <li>▪ Soils and Landscape – including potential soil contamination, erosion risks, irrigation and rehabilitation,</li> <li>▪ Groundwater – including potential impacts on local recharge levels, contamination risks, groundwater mounding, isolated waterlogging of soils and impacts on groundwater quality,</li> <li>▪ Flora and Fauna – including terrestrial riparian and aquatic, with accurate estimates of vegetation disturbance associated with the project,</li> <li>▪ 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,</li> <li>▪ Human Health – including impacts arising from the application of recycled water and discharges of wastewater and recycled water,</li> <li>▪ Waste Management – including the likely waste quantities and qualities generated during the construction (including spoil generation) and operation of the project,</li> <li>▪ Hazards and Risk – including details of hazardous materials used or kept on the premises during the construction and operation phases of the project,</li> <li>▪ Air Quality – including dust and odour impacts,</li> <li>▪ Noise and Vibration – including construction and operation noise impacts in the context of planned urban development in the area,</li> <li>▪ Visual Amenity – an assessment of the impact of the project on visual amenity, including future sensitive receptor areas, including residential,</li> <li>▪ Traffic and Access – including details of transport routes to and from construction and operational sites and associated impacts to existing activities, including safety impact,</li> </ul>						

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion date	Comment	Verification
	<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"> <li>▪ Commonwealth DSEWPaC,</li> <li>▪ OEH (including its Heritage Branch),</li> <li>▪ Department of Primary Industries (including the NSW Office of Water),</li> <li>▪ Department of Trade &amp; Investment, Regional Infrastructure &amp; Services (including its Primary Industries Division),</li> <li>▪ Roads and Traffic Authority,</li> <li>▪ QCC,</li> <li>▪ Palerang Council,</li> <li>▪ relevant service providers;</li> <li>▪ property owners and the local community, and</li> </ul> <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"> <li>▪ National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC 2000),</li> <li>▪ 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);</li> <li>▪ Environmental Guidelines: Use of Effluent by Irrigation (DEC, 2004),</li> <li>▪ NSW Industrial Noise Policy (EPA, 2000),</li> <li>▪ Interim Construction Noise Guidelines (DECC, 2009),</li> <li>▪ Environmental Noise Management – Assessing Vibration: a Technical Guideline (DECC, 2006),</li> <li>▪ Environment Criteria for Road Traffic Noise (EPA, 1999),</li> <li>▪ Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC, 2005),</li> <li>▪ Assessment and Management of Odour from Stationary Sources in NSW (DEC, 2006),</li> <li>▪ Technical Notes: Assessment and Management of Odour from Stationary Sources in NSW (DEC, 2006).</li> </ul>						
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.	<a href="http://compliance.googong.net/">http://compliance.googong.net/</a>
	(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.

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion date	Comment	Verification
	(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.	<a href="http://compliance.googong.net/iwc/project-approvals.php">http://compliance.googong.net/iwc/project-approvals.php</a>
	(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>One Section138 Certificate was obtained during the reporting period for the installation of the rising main and gravity pipeline at Stage AB WRP.</p> <p>During the reporting period, three modified construction certificates were obtained on 22 January for Stage AB WRP for modification to the administration and blower building to include retaining wall in the WRP, modification to the bioreactor to include retaining walls, and modification to the chemical storage area to include retaining walls known as transformer area.</p> <p>Approval to construct Stage AB WRP was granted by the Minister for Primary Industries (under Section 60 of the <i>Local Government Act 1993</i>) 09 February 2015.</p> <p>A modification was also made to the existing EPL for Stage AB WRP operation 13 April 2015. The modification was required to include discharge to the environment to allow for process verification phase. This is available on the website with the other approvals, licenses and certificates.</p>	<a href="http://compliance.googong.net/iwc/project-approvals.php">http://compliance.googong.net/iwc/project-approvals.php</a>
	(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).	<a href="http://compliance.googong.net/iwc/">http://compliance.googong.net/iwc/</a> <a href="http://compliance.googong.net/epbc/">http://compliance.googong.net/epbc/</a>
	(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.	<a href="http://compliance.googong.net/iwc/monitoring-auditing-and-compliance.php">http://compliance.googong.net/iwc/monitoring-auditing-and-compliance.php</a>
	(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 5-6 May 2015. A summary of audit findings are available on the website.	<a href="http://compliance.googong.net/iwc/monitoring-auditing-and-compliance.php">http://compliance.googong.net/iwc/monitoring-auditing-and-compliance.php</a>

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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. During the reporting period one consistency assessment has been submitted for Stage 1 of the IWC Project. Refer Section 2.4 of the Compliance Tracking Report for more information.	Refer attached 'Consist_Rev – WRP_design_updates_Rev0_150423'.
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: (a) any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted in accordance with this approval, (b) 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.	'DP&I Acceptance Staging Report Letter_28Aug2012.pdf' provided with previous Compliance Tracking Report.
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.  During the reporting period Approval to construct Stage AB WRP was granted by the Minister for Primary Industries (under Section 60 of the <i>Local Government Act 1993</i> ) 09 February 2015.  A modification was also made to the existing EPL for Stage AB WRP operation 13 April 2015. The modification was required to include discharge to the environment to allow for process verification phase.	<a href="http://compliance.googong.net/iwc/approvals-licences-and-permits.php">http://compliance.googong.net/iwc/approvals-licences-and-permits.php</a>

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
	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) and Icon Water (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 are implemented during operation.	
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.	<a href="http://compliance.googong.net/">http://compliance.googong.net/</a>
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		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 had an approval role on the WRP design as it progressed through the Section 60 (LG Act) approval to construct process with NSW Office of Water (approval granted 9 February 2015) – refer attached.  QCC also reviews 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.	'QCC response to A11_Network West_1Nov2012.pdf' provided with previous Compliance Tracking Report.  Refer attached 'NOW_Googong WRP – Step 7 S60 approval.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 regards to the Bulk Water Connection (BWC) works at Stage A	'Palerang Council A11 response_2012 and 2014.pdf' provided with previous Compliance Tracking Report.

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
						<p>Network (east). Palerang had no issues with the BWC works. Icon Water (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). 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"> <li>Under Part 4A of the EP&amp;A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works, and</li> <li>Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the project.</li> </ul>	GTPL	Open	Compliant		<p>During the reporting period, GTPL applied for three modified construction certificates for Stage AB WRP for the modification to the administration and blower building to include retaining wall in the WRP, modification to the bioreactor to include retaining walls, and modification to the chemical storage area to include retaining walls known as transformer area. These certificates were issued 22 January 2015.</p>	<a href="http://compliance.googong.net/iwc/other-approvals.php">http://compliance.googong.net/iwc/other-approvals.php</a>
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 (i.e. operation of Stage A – Network prior to operation of the Stage AB WRP) to manage risks to the environmental during operation.</p>	

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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 IWC 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&amp;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><a href="http://compliance.googong.net/">http://compliance.googong.net/</a> 'QCC comments Stg A Network Mgmt Plans (incl CIP)_9Aug2012.pdf' provided with previous Compliance Tracking Report. 'DP&amp;I CIP Endorsement_21Sep12.pdf' provided with previous Compliance Tracking Report.</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><a href="http://compliance.googong.net/">http://compliance.googong.net/</a></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 16 January 2015. The previous advertisement was posted 25 July 2014. In addition, an article on the commencement of WRP operation (expected to be August 2015) was included in the Canberra Times on 17 February 2015. Signage has been provided on fencing at the construction sites and contact information is available on the website.	Refer attached '16Jan15 Queanbeyan Age.pdf'
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. There were no complaints during the reporting period. GTPL will continue to make the complaints register available for inspection by the Director-General/Secretary upon request. No requests have been made during the reporting period.	
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 January 2015 to June 2015. 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 05-06 May 2015 by Ecology and Heritage Partners, 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 May 2015 were provided to Icon Water, 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 7.1 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 maintains 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 during this reporting period, which were reported in accordance with this condition to the DP&E. A detailed follow up response, including a Root Cause Analysis was also provided.  It should be noted that one Category One incident relating to a fuel spill at Stage AB WRP was not reported immediately to authorities. The incident occurred 31 March 2015, however was not reported to the relevant authorities until 1 April 2015, more than 24 hours after the incident had occurred. This is detailed under CoA E1.	
	(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 outlined 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		<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>Five Category One incidents relating to sediment pond overtops, fuel spills, and sediment control failures with 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> <p>It is noted that the EPA did not identify a breach of the EPL or the POEO Act in their response to three of the incidents (discharge of sediment-laden water on 11 January 2015; sediment control failure on 14 January 2015; and discharge of sediment-laden water on 8 April 2015).</p>	
B3	<p>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.</p> <p>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.</p> <p>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.</p>	GTPL	N/A	N/A	N/A	<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or construction of Stage AB WRP.</p> <p>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)).</p>	

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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	Non compliant		<p>Compliance with this condition is generally 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.</p> <p>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.</p> <p>Following a Category One incident on 17 June 2015, whereby the sediment pond at the WRP overtopped it was determined that the pond did not comply fully with the Blue Book due to its length to width ratio, as noted by the EPA. Further details on this matter are provided in Section 5.2 of the Compliance Tracking Report.</p>	
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		<p>Compliance with this condition has been managed through the mitigation measures detailed in the respective stages SWMPs and Landscape Management Plans (LMP). Backfilling, plant establishment and other landscape restoration activities took place during the reporting period.</p>	
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		<p>Compliance with this condition is ongoing throughout all works and has been managed through the mitigation measures detailed in the respective stages AQMPs.</p> <p>There were no odour complaints made during the reporting period.</p>	
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		<p>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).</p>	
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		<p>Compliance with this condition is ongoing throughout all works and has been managed through the mitigation measures detailed in the respective stages WRMPs.</p>	
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		<p>Compliance with this condition is ongoing throughout all works and has been managed through the mitigation measures detailed in the respective stages WRMPs.</p> <p>A Category Two incident relating to the collection, storage and treatment of concrete waste following a concrete washout at Stage A Network (east) 09 February 2015 was recorded during this reporting period.</p>	
B10	The Proponent shall ensure that no green waste is burned on site during the life of the project.	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout all works and has been managed through the mitigation measures detailed in the respective stages WRMPs.</p> <p>There were no recorded incidents of green waste being burnt on site during the reporting period.</p>	

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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		<p>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).</p> <p>There were no recorded incidents of excessive vegetation clearing or clearing of areas not designated for clearing during the reporting period.</p>	
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		<p>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.</p> <p>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 Hollow Relocation and Nest Box Strategy. All of the required 68 nest boxes have been installed and no additional clearing took place during the reporting period.</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.</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. All of the required 41 nest boxes have been installed 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 in the previous reporting period 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.	'DP&E Mod 3 and rev5 PTWL PMP 281014' and 'DoE_2011-5829 sgn letter' provided with previous Compliance Tracking Report.
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).  It should be noted that a non-compliance issue (with #HRS7 of the Hazards, Risk and Safety Management Plan) was identified during an inspection by the ER on 05 June 2015, in which a Safety Data Sheet was missing from the SDS register for a substance that was being used on site (XYPEX PATCH'N PLUG).	

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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:	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 in the previous reporting period 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 Network LMP to address the requirements of this condition. The LMP was provided to QCC for comment. The LMP was provided to DP&E in the previous reporting period on 13 October 2014, prior to the commencement of construction. DP&E accepted the Stage B LMP on 21 October 2014.	'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' provided with previous Compliance Tracking Report.
	(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); (iii) lighting design, (c) details of the timing and progressive implementation the visual mitigation works, and (d) procedures and methods to monitor and maintain landscaped or rehabilitated areas.			Compliant	Icon Water has prepared a Plant Establishment Period 6 month monitoring report for the period January to June 2015 for Stage A Network (east) (refer to attached).  GTPL prepared a report entitled 'An Assessment of Plant Establishment & Weed Control' in March 2015' for Stage A Network (west) (refer to attached) and continues to undertake monitoring and maintenance works.  Landscaping works for the Stage B Network and Stage AB WRP components had not yet commenced in this reporting period.	Refer attached 'Stage_A_Net_east_PEP_report_Jan_June_15_R1.pdf'  Refer attached '150312 GDR LMP Monitoring – PEP (MF Final).pdf'	
	The Plan shall be prepared and submitted to the Director-General prior to construction, unless otherwise agreed by the Director-General.			Compliant	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 has consider operational lighting impacts and complies Australian Standard AS4282 – 1997 – Control of the Obtrusive Effects of Outdoor Lighting.	

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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		<p>Compliance with this condition is generally 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 Two incident during the reporting period that relates to an un-authorised access into a fenced area protecting Aboriginal artefacts. The incident was classified as Category Two as it was determined that no impact to Aboriginal heritage items had occurred.</p>	Refer attached 'G1BAS1 GWTP3 impact June 2015 report v2.pdf'
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.	'Geotechnique Contamination Assessment_7Aug2012.pdf' provided with previous Compliance Tracking Report.
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		<p>No areas of contamination were identified within the Stage A – Network, Stage B Network and the Stage AB WRP sites prior to construction (refer CoA C2).</p> <p>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.</p>	
C4 (modified)	<p>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".</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>	GTPL	Open	Compliant		<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).</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 Stage A – Network (east) HMP. There was one Category One incident in the previous reporting period relating to the location of a stockpile site directly impacting on a known heritage item identified in further studies post-EA. The stockpile remained in place during this reporting period while actions relating to a Penalty Infringement Notification were being implemented. There was one Category Two incident during the reporting period that relates to un-authorised access into a fenced area protecting Aboriginal artefacts. However the incident was classified as Category Two as it was determined that no unauthorised impact to Aboriginal heritage items had occurred (refer to Section 5.3 of the Compliance Tracking 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-</p>	'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' provided with previous Compliance Tracking Report.

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						<p>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 in the previous reporting period to salvage known heritage items within the Stage B Network boundary on 5 November 2014. This salvage occurred on Monday 10 November 2014.</p>	
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.	
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,</p> <p>(b) 8:00 am to 1:00 pm on Saturdays, and</p> <p>(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 State AB WRP, one audible out of hours works application was submitted to DP&amp;E 01 April 2015, in accordance with Condition C8 below. The application was approved 10 April 2015 as DP&amp;E was satisfied that the noise associated with the proposed out of hours works would be restricted to daylight and early evening hours and that a written agreement would be obtained from the noise affected receivers prior to the works commencing.</p>	Refer attached 'DP&E letter approving OOHW 10042015'.
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,</p> <p>(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</p> <p>(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 State AB WRP, one audible out of hours works application was submitted to DP&amp;E 01 April 2015, in accordance with Condition C8 below. The application was approved 10 April 2015 as DP&amp;E was satisfied that the noise associated with the proposed out of hours works would be restricted to daylight and early evening hours and that a written agreement would be obtained from the noise affected receivers prior to the works commencing. Notification letters were provided to the potentially affected residential receivers for the months of May and June 2015 at least 48 hours prior to OOHW being undertaken. There were no construction-related noise complaints during the reporting period.</p>	

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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>In regards to State AB WRP, one audible out of hours works application was submitted to DP&amp;E 01 April 2015, in accordance with Condition C8 above. The application was approved 10 April 2015 as DP&amp;E was satisfied that the noise associated with the proposed out of hours works would be restricted to daylight and early evening hours and that a written agreement would be obtained from the noise affected receivers prior to the works commencing. There were no construction-related noise complaints during the reporting period.</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>No blasting activities were undertaken during this reporting period.</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 <i>Interim Construction Noise Guidelines</i>. 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>No blasting activities were undertaken during this reporting period.</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 (e.g. 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.  One Section138 Certificate was obtained during the reporting period for the installation of the rising main and gravity pipeline at Stage AB WRP.  Existing Section 138 Certificates are available on the compliance website.	<a href="http://compliance.googong.net/iwc/approvals-licences-and-permits.php">http://compliance.googong.net/iwc/approvals-licences-and-permits.php</a>
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.	

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C17	<p>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:</p> <p>(a) be independent of the design, construction and operation personnel,</p>	GTPL	Complete	Compliant	21-Sep-12	<p>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. At the time the ER was employed by NGH Environmental. During this reporting period the ER changed employees. DP&amp;E were notified of the changes in ER employment details on 16 April 2015 and provided a letter of support for continuation of Richard Sharpe as ER for the Project on 17 April 2015.</p> <p>The ER is independent of the design, construction and operation personnel and is employed by Ecology and Heritage Partners.</p>	<p>'DP&amp;I Approval Indep Env Rep_21Sep12.pdf' provided with previous Compliance Tracking Report.</p> <p>Refer attached 'DP&amp;E letter change for employer for ER 170415.pdf'</p>
	<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>			Compliant		<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 construction, the ER has undertaken fortnightly inspections and provided a copy of this report to DP&amp;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	<p>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).</p>	GTPL and contractor	Open	Compliant		<p>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.</p>	

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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> <ul style="list-style-type: none"> <li>(a) a description of all relevant activities to be undertaken on the site during construction, including stages of construction where relevant,</li> <li>(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.</li> <li>(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,</li> <li>(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;</li> <li>(e) a description of the roles and responsibilities for all relevant employees and contractors involved in the construction of the project,</li> <li>(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,</li> <li>(g) measures to monitor and manage dust emissions, including dust generated by traffic on unsealed public roads and unsealed internal access tracks,</li> <li>(h) details of actions to be taken to address identified potential adverse environmental impacts,</li> <li>(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,</li> <li>(j) a complaints handling procedure during construction, and</li> <li>(k) procedures for the update of the Construction Environmental Management Plan as necessary.</li> </ul>	GTPL	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p> <p>27-Aug-14</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&amp;I approved the CEMP on 18 October 2012.</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 (Icon Water). DP&amp;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&amp;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&amp;E approved the CEMP on 27 August 2014.</p>	
C19	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			Compliant	18-Oct-12	<p>GTPL prepared the Stage A – Network (west) CEMP in consultation with the following stakeholders: QCC, Palarang Council, OEH, EPA, RMS, DSEWPaC.</p> <p>The CEMP was provided to DP&amp;I for approval on 27 July 2012. The Director-General approved the CEMP on 18 October 2012.</p>	'DP&I Approval Stage A Network West CEMP_18Oct2012.pdf' and 'Stage A Network CEMP agency correspondence.pdf' provided with previous Compliance Tracking Report.

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	has been received from the Director-General.				05-Dec-12	GTPL prepared the Stage A – Network (east) CEMP in consultation with the following stakeholders: QCC, Palerang Council, OEH, Environment Protection Authority, RMS, DSEWPaC. The CEMP was provided to DP&I for approval. The Director-General approved the CEMP on 5 December 2012.	'DP&I Approval Stage A Network East CEMP_5Dec2012.pdf' and 'Stage A Network CEMP agency correspondence.pdf' provided with previous Compliance Tracking Report.
					11-Dec-13	GTPL prepared the Stage AB WRP CEMP in consultation with the following stakeholders: QCC, OEH, Environment Protection Authority, RMS, DSEWPaC. The CEMP was provided to DP&I for approval. The Director-General approved the CEMP on 11 December 2013.	'DP&I Stage AB WRP CEMP approval_11Dec2013' and 'Stage AB WRP CEMP agency comments_2013' provided with previous Compliance Tracking Report.
					27-Aug-14	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. The CEMP was provided to DP&E for approval. The Director approved the CEMP on 27 August 2014.	'DP&E Letter approving CEMP Stage B Network 270814' and 'Stg B Network CEMP Agency Letters' provided with previous Compliance Tracking Report.
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.	
	(i) detailed engineering designs for the recycled water discharge structure;			N/A		The recycled water discharge structure was constructed as part of Stage A Network (West) at the interim reservoirs prior to this reporting period.  Detailed engineering design are provided in the Recycled Water Flow Protocol as part of the Water Management Plan.	
	(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	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.	

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	<p>techniques which aim to shorten the time the trenches are left open),</p> <p>(vii) a description of measures to minimise soil erosion and the potential for the transport of sediment to downstream waters, including progressive rehabilitation,</p> <p>(viii) monitoring of impacts on water quality and soils;</p>						
C20	<p>(b) a Hazards, Risk and Safety Management Plan to address:</p> <p>(i) the safety of construction workers in the event of a flood, bushfire and any other likely hazard or risk,</p> <p>(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,</p> <p>(iii) the safety of the public (such as bushwalkers) near the site during construction, such as installation of signage and fencing as necessary;</p> <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> <p>(i) details of traffic routes for heavy vehicles, including any necessary route or timing restriction for oversized loads,</p> <p>(ii) measures to verify the condition of roads used by construction vehicles prior to and following construction,</p> <p>(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,</p> <p>(iv) detailed consideration of measures to be employed to ensure traffic volumes and acoustic and amenity impacts along heavy vehicle routes are minimised,</p> <p>(v) details of requirements to restore roads used for the construction of the project, including Old Cooma Road and Googong Dam Road, and</p> <p>(vi) demonstration that all statutory responsibilities with regard to road traffic impacts have been complied with;</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) HRSMP in accordance with this condition.</p> <p>GTPL has prepared a Stage A – Network (east) HRSMP in accordance with this condition.</p> <p>GTPL has prepared a Stage AB WRP HRSMP in accordance with this condition.</p> <p>GTPL has prepared a Stage B Network HRSMP in accordance with this condition.</p>	
				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>	

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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"> <li>(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,</li> <li>(ii) a review of the assumptions made in Appendix J of the EA to the final determined construction noise levels,</li> <li>(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,</li> <li>(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,</li> <li>(v) details of the consultation process for noise mitigation measures with any affected sensitive receivers, and</li> <li>(vi) details of noise monitoring to be undertaken to manage potentially elevated noise levels;</li> </ul>	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>	
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"> <li>(i) procedures for pre-construction surveys to identify key flora and fauna features within and adjacent to the construction area,</li> <li>(ii) procedures to accurately determine the total area, type and condition of vegetation community to be cleared,</li> <li>(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,</li> <li>(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,</li> <li>(v) measures for conserving and reusing topsoil,</li> </ul>		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 (DoE) (formerly DSEWPaC).</p> <p>GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following stakeholders: QCC, Palerang Council, OEH and DoE.</p> <p>GTPL has prepared a Stage AB WRP FFMP in consultation with the following stakeholders: QCC, OEH, EPA and DoE.</p> <p>GTPL has prepared a Stage B Network FFMP in consultation with the following stakeholders: QCC, OEH, EPA and DoE.</p>	

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
	(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;						
C20	(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: (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"> <li>▪ halting of works in the vicinity,</li> <li>▪ 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;</li> <li>▪ 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,</li> </ul> (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.	GTPL	Open	Compliant	18-Oct-12 05-Dec-12 11-Dec-13 27-Aug-14	GTPL has prepared a Stage A – Network (west) HMP in accordance with this condition and in consultation with the OEH and QCC. GTPL has prepared a Stage A – Network (east) HMP in accordance with this condition and in consultation with the OEH, QCC and Palarang Council. GTPL has prepared a Stage AB WRP HMP in accordance with this condition and in consultation with the OEH, EPA and QCC. GTPL has prepared a Stage B Network HMP in accordance with this condition and in consultation with the OEH, EPA and QCC.	
D1	Noise emitted from the operation of project-related infrastructure shall not exceed 35 dB(A) (LAeq (15min)) at any residence on privately-owned land. <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>	GTPL	Open	Compliant		QCC and GTPL commenced interim operations of the Interim Reservoirs and SPS1 in February 2014. No noise complaints have been received during this reporting period 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.	

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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. Approval to construct Stage AB WRP was granted by the Minister for Primary Industries 09 February 2015. Detailed design of the Stage AB WRP has been 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, or operation of the Stage A Network (ISS). 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, or operation of the Stage A Network (ISS). No recycled water has been generated or discharged during the reporting period. Baseline monitoring in accordance with the draft WMP commenced in September 2013 and ended in December 2014.	

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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> <p>(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,</p> <p>(b) specific consideration of relevant measures to address any requirements identified in the documents referred to under condition A1,</p> <p>(c) a management organisational chart identifying the roles and responsibilities for all relevant employees involved in the operation of the project,</p> <p>(d) overall environmental policies and principles to be applied to the operation of the project,</p> <p>(e) management policies to ensure that environmental performance goals are met and to comply with the conditions of this approval,</p> <p>(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:</p> <p>(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,</p> <p>(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,</p> <p>(iii) air quality impacts, particularly odour,</p> <p>(iv) operational traffic impacts, particularly during maintenance, and procedures to restore any damage attributable to the project during the operation phase;</p>	GTPL, contractors, QCC and ICON WATER		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&amp;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 Icon Water to help manage interim operations. No noise complaints were received during the reporting period.</p>	'Stg A Network OEMP consultation_2013' provided with previous Compliance Tracking Report.
	(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.	"DP&I Approval Stage A Network OEMP_14Oct2013' provided with previous Compliance Tracking Report.
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		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. GTPL has prepared a interim WMP to address this condition and which includes the monitoring programs and plans required by this condition. Baseline monitoring commenced in September 2013 and ended in December 2014. The WMP has been updated and issued to agencies for their review as baseline monitoring has been completed. It has been submitted to DP&E for approval prior to any discharge of recycled water to the environment.	
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"> <li>▪ surface water flows and quality,</li> <li>▪ impacts on water users,</li> <li>▪ stream health and habitat, and</li> <li>▪ channel stability;</li> </ul>	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 Water and Aquatic Ecology Monitoring Program to meet the requirements of this condition. Refer to Appendix A of the WMP.	

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D8	<p>(b) a Groundwater Monitoring Program, including:</p> <ul style="list-style-type: none"> <li>(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,</li> <li>(ii) groundwater impact assessment criteria including trigger levels for investigating any potentially adverse groundwater impacts,</li> <li>(iii) a program to monitor and assess: <ul style="list-style-type: none"> <li>▪ impacts on the groundwater supply of potentially affected landowners,</li> <li>▪ impacts on any groundwater dependent ecosystems and riparian vegetation;</li> </ul> </li> </ul>	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 Groundwater Monitoring Program to meet the requirements of this condition Refer to Appendix B of the WMP.</p>	
	<p>(c) a Recycled Water Flow Release Protocol, including:</p> <ul style="list-style-type: none"> <li>(i) recommended discharge rates based on baseline data of receiving waterways and meteorological conditions,</li> <li>(ii) the detailed design and operation specifications for the discharge structure/s,</li> <li>(iii) procedures for the review and amendment of flow release protocols based on the outcomes of monitoring;</li> </ul>	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 Recycled Water Flow Release Protocol to meet the requirements of this condition. Refer to Appendix C of the WMP.</p>	
	<p>(d) a Surface and Ground Water Response Plan, including:</p> <ul style="list-style-type: none"> <li>(i) a response protocol for any exceedances of the surface water and groundwater assessment criteria,</li> <li>(ii) measures to notify and compensate landowners of privately-owned land whose water supply is adversely affected by the project, and</li> <li>(iii) measures to mitigate and/or offset any adverse impacts on waterways, groundwater dependent ecosystems and/or riparian vegetation, and</li> </ul>	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 and Ground Water Response Plan to meet the requirements of this condition. Refer to Appendix D of the WMP.</p>	
	<p>(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:</p> <ul style="list-style-type: none"> <li>(i) include detailed baseline data of the soil properties of the proposed irrigation areas, including salinity levels and a nutrient budget,</li> <li>(ii) identify any potential off-site risks and impacts and describe measures to minimise any environmental impacts,</li> <li>(iii) include a protocol for the use of recycled effluent for irrigation including application rates and restrictions, and</li> <li>(iv) include a program to monitor areas subject to irrigation.</li> </ul>	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 an Irrigation Management Plan to meet the requirements of this condition. Refer to Appendix E of the WMP.</p>	

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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		Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. GTPL has prepared a interim WMP to address this condition and which includes the monitoring programs and plans required by this condition. Baseline monitoring commenced in September 2013 and ended in December 2014. The WMP has been updated and issued to agencies (EPA, OEH, NSW Office of Water, NSW Health and Department of Primary Industries (Fisheries), QCC and Icon Water) for their review as baseline monitoring has been completed. It has been submitted to DP&E for approval prior to any discharge of recycled water to the environment.	'DP&I WMP extension approval_26Sep12.pdf' provided with previous Compliance Tracking Report.
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	28-Oct-14	<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&amp;I on 15 August 2013.</p> <p>An amended version (Rev 4) was then submitted to DP&amp;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&amp;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&amp;E in the previous reporting period 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.</p>	'DP&E Mod 3 and rev5 PTWL PMP 281014' and 'DoE_2011-5829 sgn letter' provided with previous Compliance Tracking Report.
					2-Sep-14	The Pink-tailed Worm-lizard Protection and Management Plan (Rev 5) was developed in consultation with Office of Environment and the DoE (formerly DSEWPaC), and was approved by DoE in the previous reporting period on 2 September 2014.	

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 (e.g. 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		One Category One incident relating to a fuel spill at Stage AB WRP was not reported immediately to authorities. The incident occurred 31 March 2015, however was not reported to the relevant authorities until 1 April 2015, more than 24 hours after the incident had occurred.	
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.	Aquatic ecology impacts are considered under WQ4.	GTPL	Open	Compliant		Noted.	
		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.					Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP. 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 and ended December 2014.	
		Riparian vegetation, weeds and invasive scrub will be managed within the Googong township site. This will include surveying, mapping and managing invasive species.					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 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. One consistency assessment was prepared during the reporting period and issued to the ER and to DP&E. It involved the consideration of design changes from concept design for Stage AB WRP as a result of detailed design works. The design changes included a change in the ventilation stack height at the WRP as a result of the latest dispersion modelling conducted in 2013.	
		<ul style="list-style-type: none"> <li>Site-specific meteorological data, collected at the WRP site for at least 12 months prior to commissioning.</li> </ul>					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.	
		<ul style="list-style-type: none"> <li>Site specific odour data collected during and following commissioning, prior to the residential development of the immediate area west of the WRP.</li> </ul>					N/A	
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.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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.	
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"> <li>Reducing speed limits during high dust conditions.</li> <li>Clearing vegetation and topsoil only within the designated footprint.</li> <li>Progressive reinstatement of disturbed areas.</li> <li>Employment of water trucks to reduce dust in dry, windy conditions.</li> </ul>	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. No blasting works have been undertaken during the reporting period.	
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.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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 05-Dec-12 11-Dec-13 27-Aug-14	<p>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&amp;I. DP&amp;I approved the CEMP on 18 October 2012.</p> <p>A CEMP been prepared for Stage A – Network (east). The plan was provided to relevant authorities/agencies for comment in June and July 2012. ICON WATER (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&amp;I. DP&amp;I approved the CEMP on 5 December 2012.</p> <p>A CEMP been prepared for Stage AB WRP. The plan was provided to relevant authorities/agencies for comment in 2013. Comments were addressed and the revised Stage AB WRP CEMP was submitted to DP&amp;I. DP&amp;I approved the CEMP on 11 December 2012.</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. The CEMP was provided to DP&amp;E for approval. The Director approved the CEMP on 27 August 2014. See correspondence attached.</p>	<p>'DP&amp;I Approval Stage A Network West CEMP_18Oct2012.pdf' and 'Stage A Network CEMP Agency Correspondence.pdf' provided with previous Compliance Tracking Report.</p> <p>'DP&amp;I Approval Stage A Network East CEMP_5Dec2012.pdf' and 'Stage A Network CEMP Agency Correspondence.pdf' provided with previous Compliance Tracking Report.</p> <p>'DP&amp;I Stage AB WRP CEMP approval_11Dec2013' and 'Stage AB WRP CEMP agency comments_2013' provided with previous Compliance Tracking Report.</p> <p>'DP&amp;E Letter approving CEMP Stage B Network 270814' and 'Stg B Network CEMP Agency Letters' provided with previous Compliance Tracking Report.</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 State AB WRP, one audible out of hours works application was submitted in the reporting period to DP&amp;E 01 April 2015, in accordance with Condition C8. The application was approved 10 April 2015 as DP&amp;E was satisfied that the noise associated with the proposed out of hours works would be restricted to daylight and early evening purposes and that a written agreement would be obtained from the noise affected receivers prior to the works commencing. Notification letters were provided to the potentially affected residential receivers for the months of May and June 2015 at least 48 hours prior to OOHW being undertaken. No out of hours complaints were received during the reporting period.</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 Icon Water 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 fourth meeting on 4 May 2015, where the IWC Project water management plan and erosion and sediment controls, as well as water sensitive urban design was discussed.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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, one advertisement providing a construction update was included in the Queanbeyan Age on 16 January 2015. The previous advertisement was posted 25 July 2014.</p> <p>GTPL also distributed a construction update to the township's residents on the 2 February 2015.</p> <p>In addition, an article on the commencement of WRP operation (expected to be August 2015) was included in the Canberra Times on 17 February 2015.</p> <p>During the reporting period negotiations were undertaken with residents in the WRP catchment due to planned out of hours work to be conducted for Stage AB WRP following approval of the out of hours application to DP&amp;E on 10 April 2015. There were no construction-related noise complaints during the reporting period.</p>	
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		<p>Condition not applicable to construction stages (i.e. Stage A – Network (west/east), Stage B Network and Stage AB WRP).</p> <p>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 prior to process verification of the WRP. 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.</p>	
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		<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 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.</p> <p>One consistency assessment was prepared and submitted for Stage 1 of the IWC Project during the reporting period. Refer to Section 2.4 of the Compliance Tracking Report for more information.</p>	
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		<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 CTP which details the commitment to ensure design changes are assessed for consistency with the approved project.</p> <p>There were no modifications submitted to DP&amp;E during this reporting period.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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.	
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 (DoE) (formerly DSEWPaC).	
		05-Dec-12				GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following agencies: QCC, OEH and DoE.		
		11-Dec-13				GTPL has prepared a Stage AB WRP FFMP in consultation with the following agencies: QCC, EPA, OEH and DoE.		
		27-Aug-14				GTPL has prepared a Stage B Network FFMP in consultation with the following agencies: QCC, EPA, OEH and DoE.		
		<ul style="list-style-type: none"> <li>Minimising the disturbance of native flora and hollow-bearing trees.</li> </ul>	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 FFMPs.		
						<ul style="list-style-type: none"> <li>Implementing weed control measures.</li> </ul>	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) and LMPs. During the reporting period weeds were slashed along Pipe Bench Road in Stage A Network (east). No native vegetation was removed.	
<ul style="list-style-type: none"> <li>Revegetating with endemic species.</li> </ul>	GTPL and contractor	Open	Compliant	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"> <li>Minimising soil disturbance.</li> </ul>				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 and SWMPs.				
<ul style="list-style-type: none"> <li>Implementing clearing protocols to protect flora and fauna.</li> </ul>	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 FFMPs. Refer to Table 5.1 and Attachment 2 (Vegetation Clearing Procedure). Areas to be protected (i.e. Endangered Ecological Communities) have been fenced off with signage.				

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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 DoE (formerly DSEWPaC).		
		<ul style="list-style-type: none"> <li>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.</li> </ul>	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 (i.e. Endangered Ecological Communities) have been fenced off with signage throughout the reporting period.	
		<ul style="list-style-type: none"> <li>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.</li> </ul>		Open			<p>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.</p> <p>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.</p> <p>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 including the erection of the PTWL Conservation Area Fence – Stage 1 and informing all project personnel of the location and importance of the PTWL Conservation Area were implemented.</p>	
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		<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 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.</p>	
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.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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"> <li>Mapping unregistered nearby groundwater bores, if identified.</li> <li>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.</li> </ul>	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. There was however one Category One incident relating to a fuel spill during offloading of equipment on 31 March 2015 at the gates of the Stage AB WRP site. Follow up actions include establishment of a new plant checklist for all loading/unloading vehicles on site.</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"> <li>The salt levels in groundwater will be regularly monitored during and after Stage 1 of the Project.</li> <li>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.</li> <li>The monitoring of salt levels in the receiving waters will be indicative of the effectiveness of the stormwater system (refer below).</li> </ul>	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 and ended in September 2014. Additional monitoring was undertaken in January, February and June 2015.</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.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
G6	Minimise the potential for waterlogging.	The risks associated with waterlogging will be considered and accommodated through the design of the drainage system.	GTPL	Open	Compliant		This commitment is being met through the design of the reticulation network in the subdivision in addition to the IWC infrastructure.	
		Irrigation systems will be designed and scheduled to avoid overwatering.					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.	
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.					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 and ended in September 2014. Additional monitoring was undertaken in January, February and June 2015.	
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	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. During the reporting period, there was one Category Two incident relating to unauthorised access to a fenced area protecting Aboriginal artefacts in Stage A Network (east). The incident was originally raised as a Category One incident, however it was later downgraded as no unauthorised impact of Aboriginal or non-Aboriginal items had occurred. Refer to Section 5.3 of the Compliance Tracking 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 a 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. Detailed design of the Stage AB WRP has been 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"> <li>Developing the RWRMP through hazard identification (for the operation of the recycled water system and use of recycled water).</li> <li>Identifying the significant human and environmental health risks.</li> <li>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.</li> <li>Completing the RWRMP, based on the monitoring results.</li> </ul>	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 a 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. Detailed design of the Stage AB WRP has been undertaken so that the WRP can operate to meet the requirements of this plan and the D5 effluent criteria.  Approval to construct Stage AB WRP was granted by the Minister for Primary Industries (under Section 60 of the <i>Local Government Act 1993</i> ) 9 February 2015.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
HH3	Reduce risks associated with exposure to recycled water.	<p>The Proponent will apply the following risk management practices to limit exposures to recycled water:</p> <ul style="list-style-type: none"> <li>Installation regulations and codes of practice that include systematic processes to reduce the probability of cross-connections.</li> <li>Materials codes and regulations that easily discriminate drinking and recycled water plumbing.</li> <li>Regulations that limit the legal installation and modification of plumbing systems to licensed individuals.</li> <li>Education on recycled water use and the need to avoid creating cross-connections.</li> <li>Installation of backflow prevention.</li> <li>Operational checking (that is, testing of recycled effluent quality following treatment) and connection auditing.</li> <li>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.</li> </ul>	GTPL and QCC	Open	Compliant		<p>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.</p> <p>QCC has prepared a 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. Approval to construct Stage AB WRP was granted by the Minister for Primary Industries (under Section 60 of the <i>Local Government Act 1993</i>) 9 February 2015.</p> <p>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.</p>	<a href="http://googong.net/sales/design-guidelines.php">http://googong.net/sales/design-guidelines.php</a>
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"> <li>Construction noise goals.</li> <li>Liaising with community to advise on likely timing and duration of noisy activities.</li> <li>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>).</li> <li>Using noise abatement measures (physical and managerial) where reasonable and feasible.</li> <li>Procedures for liaising with the relevant agencies to discuss the need to construct outside of regular hours, for specific cases.</li> </ul>	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>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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		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.  No blasting activities were undertaken during the reporting period.	
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	Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, Stage AB WRP or operation of Stage A – Network.  Noise attenuation has been 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.	
NH1	Avoid and/or minimise impacts on non-indigenous heritage.	Generally, non-indigenous heritage on the site will be managed in accordance with Appendix G of the EA.  Construction and maintenance activities will be managed to avoid structural damage on heritage items as a result of vibration.  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.	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		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.  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.	
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.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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"> <li>▪ The trade-off between potable water savings, reduction in stormwater discharges and increased recycled water discharges.</li> <li>▪ Relative impacts of excess recycled water discharges compared to impacts on soil and groundwater from recycled water uses.</li> <li>▪ The timeframe for relative comparisons of impacts of components of the water cycle will be determined in consultation with the relevant government agencies.</li> <li>▪ The ability to feedback results for further stages of Googong township.</li> </ul>	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) which has been submitted to DP&amp;E for final approval. Baseline data has been obtained and 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 and ended in December 2014.</p>	
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		<p>Telemetry has been installed at the BWPS, Interim Reservoirs and SPS1 during construction.</p> <p>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.</p>	
OP3	Adaptive management	<p>Management plans will be reviewed with consideration of the outcomes of monitoring programs:</p> <ul style="list-style-type: none"> <li>▪ Additional management and mitigation measures will be implemented, should monitoring identify that the water cycle system is operating outside of modelled or expected parameters.</li> </ul>	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 an OEMP for Stage A – Network 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 of 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.</p>	
R1	Manage the operational risks associated with storage and delivery of chemicals.	<p>Measures typical of facilities of the nature and size of the Project will include:</p> <ul style="list-style-type: none"> <li>▪ Storing relevant chemicals below threshold quantity levels.</li> <li>▪ Undertaking activities in accordance with relevant MSDS's.</li> <li>▪ 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.</li> <li>▪ Developing and implementing appropriate procedures for delivery, handling and accidental spills of chemicals.</li> </ul>	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 the mitigation measures detailed in the respective stages HRSMPs.</p> <p>There were no incidents relating to the delivery/storage/ handling of chemicals in the reporting period.</p>	

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R2	Manage risks in emergency and/or maintenance situations at the key infrastructure.	<p>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:</p> <ul style="list-style-type: none"> <li>▪ Telemetry at all key infrastructure ( eg SCADA).</li> <li>▪ An alarm system.</li> <li>▪ Backup procedures should the power to infrastructure be interrupted.</li> <li>▪ First flush tank at the WRP and wet well emergency storage at the SPS's.</li> <li>▪ Overflows at the WRP and the SPS's.</li> </ul>	GTPL, QCC and ICON WATER	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, and Stage AB WRP. However detailed design of the WRP has considered emergency infrastructure requirements as required by this condition.</p> <p>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).</p> <p>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. Approval to construct Stage AB WRP was granted by the Minister for Primary Industries (under Section 60 of the <i>Local Government Act 1993</i>) 09 February 2015.</p>	
S1	Ensure proper management of soils.	<p>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').</p> <p>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.</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 mitigation measures detailed in the respective stages SWMPs.	
S2	Prevent soil erosion and minimise loss of topsoil.	<p>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:</p> <ul style="list-style-type: none"> <li>▪ Reprofilling 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.</li> <li>▪ Reseeding and the use of geotextile materials as required.</li> <li>▪ Backfilling of trenches in layers with compaction.</li> <li>▪ Management and exclusion of site access to assist with site recovery.</li> </ul>	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) 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 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>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
S3	Prevent and manage spills.	To prevent and manage spills, the proponent will: <ul style="list-style-type: none"> <li>Implement chemical transport, storage, handling and disposal procedures, in accordance with requirements for dangerous goods, of environmental legislation and industry standards.</li> <li>Ensure spill response procedures and equipment for containment and recovery are available on site.</li> <li>Conduct workforce training on the transport, storage, handling and disposal procedures relating to chemicals.</li> </ul>	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.	
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"> <li>Manage contaminated soil disposal or removal from site in accordance with OEH <i>Waste Classification Guidelines</i>,</li> </ul>					No contaminated waste/spoil was identified during the reporting period.	
		<ul style="list-style-type: none"> <li>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</li> </ul>		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.	'Geotechnique Contamination Assessment_7Aug2012.pdf' provided with previous Compliance Tracking Report.
		<ul style="list-style-type: none"> <li>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.</li> </ul>		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.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
S5	Ensure minimal impact on soil salinity and groundwater quality.	<p>Ensure that appropriate materials are used to mitigate against the corrosive impacts of high salinity.</p> <p>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.</p> <p>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.</p> <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"> <li>Education on salinity impacts on soil and plant damage and regrowth.</li> <li>Encouragement to grow salt-tolerant species, particularly in areas considered to be of high risk.</li> </ul> <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>	GTPL	N/A	N/A	N/A	<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.</p> <p>This condition has been met during detailed design of Stage AB WRP.</p> <p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, or Stage AB WRP.</p> <p>This condition will be met during detailed design phase for the stormwater ponds as part of the Part 4 subdivision works.</p> <p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network or Stage AB WRP.</p> <p>This condition will be met during the detailed design and process commissioning phases 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.</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 prior to process verification of the WRP. 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>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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"> <li>The use of standard mitigation and management controls.</li> <li>Planning of vehicle use to maximise efficiency and reduce vehicle trips.</li> <li>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).</li> <li>Access to properties and provisions for temporary access.</li> </ul> <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>	
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		<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 TMP.</p> <p>In the reporting period, one Section 138 Certificate has been issued by QCC for the installation of the rising main and gravity pipeline at Stage AB WRP under the <i>Roads Act 1993</i>.</p> <p>A TMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	<a href="http://compliance.googong.net/iwc/other-approvals.php">http://compliance.googong.net/iwc/other-approvals.php</a>
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.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
T5	Manage operational traffic, transportation and access to minimise impacts on local conditions.	<p>A Traffic management plan will be prepared for the operation and maintenance of key water cycle infrastructure, which will include:</p> <ul style="list-style-type: none"> <li>Standard management and mitigation measures for managing vehicle movements at water cycle infrastructure sites.</li> <li>Timing of truck movements for deliveries and disposal, and parking arrangements.</li> </ul>	GTPL and contractor	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east), Stage B Network, or Stage AB WRP.</p> <p>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.</p>	
V1	Minimise visual impact by maintaining existing vegetation where practical.	<p>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.</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 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"> <li>Achieving the most appropriate finished landform profile of the top of the hill that integrates the reservoirs,</li> <li>Detailing siting and design of any elements over and above the reservoirs to minimise visibility (eg plant equipment, fencing, signage and lighting),</li> <li>Ensure the access road alignment is a careful balance of limited visible road profile and minimised cutting/embankment visibility where following contours,</li> <li>Considering the location and extent of tree groups to best mitigate visual impacts, and</li> <li>Considering soil and microclimate factors and amelioration to ensure healthy and rapid tree growth.</li> </ul>	GTPL	N/A	N/A	N/A	<p>Condition not applicable to Stage 1 (i.e. Stage A and B). This condition will be met during detailed design phase of the permanent reservoirs (Stage C/D).</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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"> <li>Procedures to classify waste types in accordance with the Waste Classification Guidelines and NSW legislative requirements.</li> <li>Resource recovery and re-use strategies for each waste type.</li> <li>Details of treatment and storage of on-site waste.</li> <li>Procedures and disposal arrangements for relevant materials.</li> <li>Reporting and recording requirements for all waste movements, allowing determination of recycling and re-use levels achieved.</li> </ul>	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) 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. During the reporting period there was one Category Two incident relating to the collection, storage and treatment of waste concrete on 9 February 2015.</p> <p>GTPL has prepared a Stage A – Network (east) WRMP that outlines the principles of the resource management hierarchy. During the reporting period there was one Category Two incident relating to the collection, storage and treatment of waste concrete on 9 February 2015.</p> <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"> <li>The collection and transportation of grit and screenings from the WRP to an appropriately licensed facility.</li> <li>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).</li> <li>Management and monitoring of the discharge of treated effluent (recycled water) during commissioning and verification phases of the WRP operation.</li> <li>Waste management for putrescible and recyclable wastes generated from the WRP and other water cycle infrastructure.</li> <li>Procedures for the collection and dewatering of any solid matter removed through maintenance activities of water cycle infrastructure, and transportation and disposal off site.</li> <li>Vehicle routes, and the timing of trips, associated with waste management, in consideration of the traffic management plan.</li> </ul>	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> <p>During the reporting period, there was one Category Two incident on 26 February 2015, relating to a potential sewage leak from a tanker travelling to Coppins Crossing disposal point following a rollover incident. Tanker integrity remained intact following rollover and the sewage was transferred immediately to another tanker via a sucker truck and did not make contact with the ground.</p>	
WQ1	Implement water quality and hydrology	To reduce risks associated with water quality, soil and water management plans will be developed and implemented for the construction	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	

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	management procedures.	phase, via the CEMP, in accordance with <i>Managing urban stormwater: soils and construction, Volume 1</i> (the Blue book).				05-Dec-12 11-Dec-13 27-Aug-14	<p>GTPL has prepared a Stage A – Network (east) SWMP that outlines the management measures for erosion and sedimentation control 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>	
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"> <li>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.</li> <li>Fuel and chemical storage sites will not be located in the vicinity of any permanent and/or flowing waterway.</li> <li>The maintenance or refuelling of equipment will not be undertaken within the vicinity (within 150m) of any waterway.</li> </ul>	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. There was one Category One incident relating to a fuel spill during offloading of equipment on 31 March 2015 at the gates of the Stage AB WRP site. Follow up actions include establishment of a new plant checklist for all loading/unloading vehicles on site.</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"> <li>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.</li> <li>Respreading topsoil over the area from where it was removed.</li> </ul>	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"> <li>Details of the monitoring program will be determined in consultation with relevant government authorities/stakeholders (including the OEH, DPI and, potentially, Icon Water). Such consultation will ensure the sharing of available data for the Queanbeyan River for comparative and impact assessment purposes.</li> </ul>	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. The WMP was developed in consultation with the stakeholders listed in this condition.</p> <p>Surface/groundwater monitoring commenced in September 2013 and ended in December 2014 to allow for at least 12 months of monitoring prior to operation of the WRP. The WMP has been updated with the baseline monitoring results, issued to agencies for review and submitted to DP&amp;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>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
		<ul style="list-style-type: none"> <li>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).</li> <li>Monitoring will commence approximately 12 months prior to commissioning the water recycling plant.</li> </ul>						
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.	