



Construction Environmental Management Plan

GONGUES CONSTRUCTIONS PTY LTD

Googong Stage C Water Recycling Plant
for
Googong Township Pty. Ltd.

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Revision Status

Authorised revisions will be issued to all holders of Controlled Copies of this Plan. The Holder is responsible for entering each new revision into this Manual and to note the change in the table below.

All superseded pages should be removed and destroyed.

VERSION	DATE OF ISSUE	CLAUSE	Revision Description	Date Entered	Entered By:
0	28/6/17	New Issue	N/A	28/6/17	NH
1	7/7/17	2.0	Diagram showing management system added	7/7/17	NH
		2.1	Delineation map between Part 4 & 5 approvals added Requirements for management review and revision supply updated		
		2.4 – 2.7	Table of requirements for approvals, licenses and EIS statement of commitment added		
		3.1	Responsibility for reporting to Superintendent added		
		3.2	Additional details of records added		
		3.3	Reference added GFIMS		
		4.3	Reference added GFIMS		
		4.3.1	Req. to cover loads and stockpiles added		
		4.3.2	Updated to note req. for accordance to Council requirements		
		4.3.4	Updated to note req. for accordance to Council requirements Hours of work added		
		4.3.14	Updated to note req. for accordance to Council requirements Details of complaint procedure added Details regarding management of C48 underground cables added		
		5.3	Add req. to retain EPL on site. Added EPL as App. M Reporting timeframes added		
		6.3	Requirement for external audits added		
App. A	Updated				
App. H	Updated				



		App. I	Updated		
		App. L	New appendix		
		App. M	New appendix		
2	19/7/17	2.1	Added reference to WHSMP, PRA, et al regarding safety risks and mitigation	19/7/17	NH
		5.2.1	Reference to Emergency Response Plan added		
		6.5	New clause RE: EPL reporting		
		App. K	Updated		
3	21/7/17	App. N	New appendix	21/7/17	NH
		App. O	New appendix		
4	14/3/18	2.8	Added 2.8 EPA EPL number 20188	14/3/18	LD
		App. C	Included EPL number 20188 conditions		
		App. P	Added Appendix P – Commissioning Plan		
5	02/05/18	Section 2.7	Amended EPL Licence Condition A1.1	02/05/18	LB
		Section 2.7	Amended EPL Licence Condition A2.1		
		Section 2.8	Amended EPL Licence Condition A1.1		
		Appendix Q	Added Appendix Q – Emergency Response Management Plan		
6	06/06/18	Section 2.1	Added decommissioning and demolition of interim reservoirs to the scope of works	06/06/18	LB
		Section 2.7	Amended EPL Licence Conditions A1.1		
7	12/06/18	Appendix R	Added sub-plan for Interim reservoirs demolition	12/06/18	LB

Approved By:	C. Gonçalves		
	<i>Project Manager</i>	<i>Signature</i>	<i>Date</i>


Reviewed By:	L. De Sylva		
	<i>WHSQ&E Manager</i>	<i>Signature</i>	<i>Date</i>



Table of Contents

Revision Status	i
Acronyms and Abbreviations	4
1. Integrated Management System (IMS) Policy	5
2. Introduction.....	6
2.1 Project & Site Description.....	8
2.2 Objectives of the CEMP	11
2.3 Legislative context.....	12
2.4 Register of Approval Conditions	23
2.5 Statement of Commitments from EIS	27
2.6 Commonwealth Environment Protection and Biodiversity Conservation Act 1999 Conditions of Approval ..	34
2.7 Licence conditions for EPL 20788	36
2.8 Licence conditions for EPL 20188	49
3. Roles and Responsibilities.....	71
3.1 On-site Structure and Responsibility.....	71
3.2 Records of Environmental Activities	73
3.3 Environmental Training and Communications.....	74
4. Environmental Safeguards and Controls	75
4.1 Introduction	75
4.2 Environmental Risk Assessment	76
4.3 Environmental Aspects and Actions	78
4.4 Control of Subcontractors.....	102
5. Management.....	103
5.1 Monitoring and Measurement	103
5.4 Environmental Management System Audit	105
5.5 Management Review.....	106
6. Environmental Monitoring.....	107
6.1 Environmental Actions Monitoring	107
6.2 Auditing.....	107
6.3 Audits during Construction	107
6.4 Environmental Management Representative	107
6.5 EPL Reporting.....	108
Appendix A Waste & Resource Management Plan	109
Appendix B Weekly Environmental Inspection.....	110
Appendix C Soil & Water Management Plan	111
Appendix D Organisational Chart.....	112
Appendix E Environmental Impact Planning Checklist.....	113
Appendix F Emergency Contact Numbers	117
Appendix G Emergency Spill Procedure	118
Appendix H Reference Document List	119
Appendix I Traffic & Pedestrian Management Plan.....	120
Appendix J Site Cooperative Use Plan	121
Appendix K Noise & Vibration Management Plan.....	122
Appendix L Map of Environmentally Sensitive Areas	123
Appendix M Environmental Protection Licenses 20188 & 20788.....	124
Appendix N Pollution Incident Response Management Plan.....	125
Appendix O GT Googong Monthly Environmental Report	126
Appendix P Stage C Commissioning Plan	127
Appendix Q Emergency Response Management Plan	128
Appendix R Interim Reservoirs Demolition.....	129



Acronyms and Abbreviations

ACH	Aboriginal Cultural Heritage
ASS	Acid Sulphate Soils
ASSMAC	Acid Sulphate Soils Management Advisory Committee
CEMP	Construction Environmental Management Plan
OEH	Office of Environment and Heritage
DEHWA	Department of Environment, Heritage, Water and the Arts
DPI	Department of Primary Industries
EEC	Endangered Ecological Community
EIS	Environmental Impact Statement
EMF	Electric and Magnetic Field
EMR	Environmental Management Representative
EMS	Environmental Management System.
ENM	Excavated Natural Material
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Reg	<i>Environmental Planning and Assessment Regulation 2000</i>
EPA	Environment Protection Authority (function is within OEH)
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
ESCP	Erosion and Sediment Control Plan
GFIMS	Googong Foreshores Interface Management Strategy
GTPL	Googong Township Pty Ltd
IMS	Gongues Integrated Management System
LPMA	Land & Property Management Authority
NMP	Noise Management Plan
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
QPRC	Queanbeyan-Palerang Regional Council
RMS	Roads and Maritime Services
TPMP	Traffic & Pedestrian Management Plan
VENM	Virgin Excavated Natural Material
WRAP	Waste Reduction and Procurement



1. Integrated Management System (IMS) Policy

It is the policy of Gongues Constructions Pty. Ltd to implement an Integrated Quality, WH&S and Environment System (IMS). Senior Management is committed to implementing safe systems of work, establishing measurable objectives and targets to comply with relevant legislation to implement the continuous improvement process and achieve customer requirements including the provision of available resources to achieve the objectives of this IMS. This shall ensure Gongues personnel are appropriately trained, experienced and competent in the prevention and elimination of incidents and accidents, risk mitigation of the tasks and activities they are assigned and this Integrated Management System. To ensure these commitments are achieved, this IMS shall incorporate the following;

- Define objectives that reflect the operational purpose, scale and impacts of the organisation
- Implement a structure for the establishment and review of Corporate targets and objectives
- Incorporate the ideal that all workplace incidents and accidents are preventable
- Make available this IMS Policy to the public and interested parties
- Bi-Annual Management Systems Reviews to maintain its suitability, adequacy and effectiveness to the organisation
- Implement risk management by identifying, assessing and controlling hazards
- Ensure all personnel within the Company understand and comply with legislative requirements
- Provide training for personnel to understand their duties in accordance with the IMS
- Comply with AS/NZS ISO 9001, AS/NZS 4801 and AS/NZS ISO 14001 and provide for continual improvement, effectiveness and prevention of pollution
- Implement a rehabilitation program that seeks to minimise the effects of accidents, injuries and incidents
- Exhibit industry leadership in the areas of Quality, WHS&R and Environmental Management
- There are no exceptions to this policy

Objectives

In consultation with relevant stakeholders, Gongues Senior Management has defined the following measurable objectives that shall be measurable within a given timeframe and utilised as performance indicators of this IMS and the organisation;

- Maintain Certification in AS/NZS ISO 9001, AS/NZS 4801 and AS/NZS ISO 14001
- Perform the necessary Internal System Audits to complete a full system implementation audit at once per 12 month period
- Achieve Nil 'Unsatisfactory' Performance Reports from Customers
- Complete all projects within the specified timeframes
- Plan and Schedule regular maintenance on plant and equipment
- To document and record waste reduction objectives for each project
- Recycle at least 5% of all waste generated
- Achieve Nil Lost Time Injuries
- Review Template Safe Work Method Statements at least once every 6 months
- Achieve Zero fatalities
- Perform Nil tasks or activities that have a Significant Environmental Impact as a potential Residual Risk
- Perform at least one Management System Review per annum
- Conduct at least 2 Internal Audits per annum

This policy and IMS Manual has been reviewed for suitability, adequacy, effectiveness and has been authorised for use by the following Managing Directors;

Mr. Carlos Gonçalves

Mr. Herculano Gonçalves

Mr. Aladino Domingues



2. Introduction

This Construction Environmental Management Plan (CEMP) has been initiated to detail the environmental protection measures to be implemented during the construction of Stage C at Googong Water Recycling Plant (WRP). The CEMP will cover the environmental protection practices, resources and sequence of activities required to comply with all the requirements of relevant legislation and the conditions of applicable licences, approvals and permits. It will also identify the person or positions responsible for implementation of mitigation measures in each case.

The Plan reflects the mitigation measures listed in the Environmental Impact Statement (EIS) provided by the client as a means of ensuring no adverse damage is done to the environment.

The report contains:

- Assignment of responsibility for planning, approving, implementing, maintaining, assessing and monitoring of environmental controls;
- Copies of approvals, licences and permits to meet statutory requirements, when needed;
- Details of the potential environmental effects and control measures to be implemented to comply with statutory requirements and provide environmental protection in accordance with the requirements of the contract;
- Details of how environmental protection will be maintained for each subcontractor's activities;
- Environmental monitoring program and report forms for recording environmental monitoring activities. These include inspections, monitoring high risk events or monitoring to ensure compliance (e.g.. noise monitoring);
- Locations of environmental controls and environmentally sensitive areas, including any specific controls for these areas;
- Erosion and Sediment Control Plan with detail of actions to be undertaken to ensure compliance and how improvement issues will be controlled and managed;
- Communication / correspondence procedures;
- Emergency response procedures for containing environmental damage and procedures for planning restoration activities;
- Environmental training and induction program;
- Authorised personnel and procedures for changing and issuing the CEMP;
- Details of how the changes to environmental management documentation and data are to be identified and communicated to relevant project personnel;
- Mechanism for regular evaluation of environmental performance;
- Environmental auditing program



The Construction Environmental Management Plan fits into the Project Management Plan as shown below:



2.1 Project & Site Description



Figure 1-1: Site Location map showing the location of Googong WRP (Googong Road, Googong)

Gongues Constructions will carry out all works on the Project in accordance with the Gongues Integrated Management System (IMS).

The scope of work for Stage C at Googong Water Recycling Plant for Googong Township Pty. Ltd. Includes the following:

- Site setting up, site clearing, preparation and excavation works including all temporary access provisions, site establishment, site investigation and site survey works
- Sewage mains from the existing interfaces within the WRP
- A new inlet works including mechanical screens, vortex grit removal system, screenings handling and dewatering, grit handling plant, and storage bins
- A new Emergency Detention Tank
- A new Membrane Bioreactor (MBR)
- Ancillary chemical storage dosing systems including, but not limited to, dosing skids and all associated pipework, valves and controls
- New Filtrate Storage Tank
- Additional tertiary filtration pump sets and membrane modules to integrate with the existing assets
- New UV disinfection unit to integrate with the existing assets
- New Off-spec Water Tank
- Additional below ground pits
- A new sludge digester, and relocation of the existing rotary drum thickener (with a new removable carport)
- All ancillary plant such as pumps, blower(s), fan(s), control valves, and valves
- All noise attenuation measures necessary to meet the operational noise limit for this project
- Upgrade of the existing odour control process and equipment including new covers, new ductworks, new fan, modification to the efflux cone of existing vent stack to meet the odour requirements of this project
- All civil construction work, including earthworks, stormwater drains, below ground structures, tanks, slabs, plinths, foundations, roads, pipelines, conduits, draw-pits, retaining walls and any civil structures and activities necessary for completion of the whole of the works



- All switchboards, mains and local panel, power metering, and power factor correction and harmonic mitigation measures as required by the local power authority
- All electrical power and control, and instrumentation cabling for the plant supplied
- All illumination design and provision of road lighting, task lighting and internal building lighting
- All control and telemetry requirements including site SCADA
- Overall control system fully integrating the new processes and equipment with the existing WRP
- Connections of new equipment to for the existing standby generator to enable full operation of the plant during power outage
- Labelling and signage
- Supply of Operation and Maintenance Manuals
- Provision of training
- Support the Principal and the Owner in obtaining approval from the NSW Office of Water (NOW) for the RWQMP
- Support the Principal and the Owner in obtaining approval from the EPA with regard to effluent discharge
- Obtain approval for the relevant authorities to facilitate the construction activities required for the project
- Operate and maintain the new assets until project handover
- Decommissioning and demolition of Interim Reservoirs

Gongues Constructions has been appointed as the Principal Contractor in accordance with the NSW WHS Regulation (2011). The expected duration of the project is 12 months.

All construction and restoration work must be carried out strictly in accordance with the approved drawings and Queanbeyan City Council's Googong Design and Construction Specifications (Version 1, dated June 2011). Hardcopies of the latest revision of this management plan and all its appendices shall be maintained on site in accordance with **IMS P06 Documentation and Document Control Procedure**. Revision and distribution of this plan shall also occur in accordance with **IMS P06**. This plan shall be reviewed and amended in accordance with section 5.5 of this CEMP.

Information regarding the safety risks and mitigation measures for this project can be found in the Project Risk Assessment, WHS Management Plan, Site Specific Induction and the Safe Work Method Statements.

The site is located on Googong Road as shown in Figure 1.1.

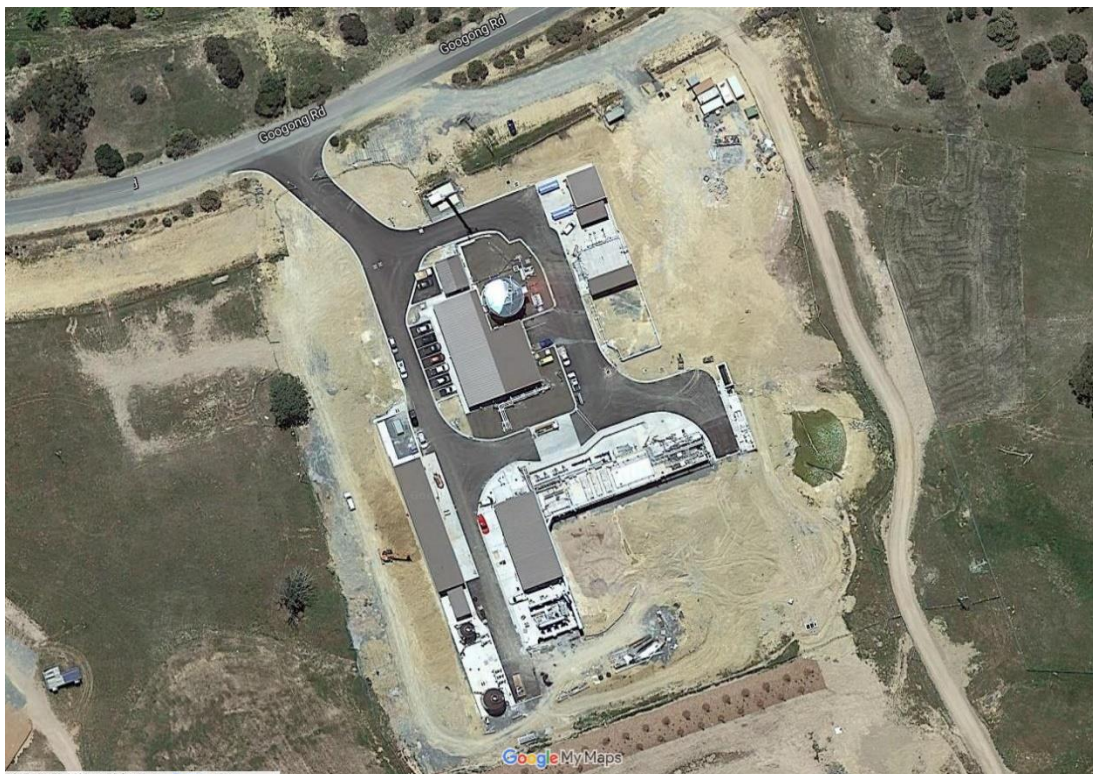
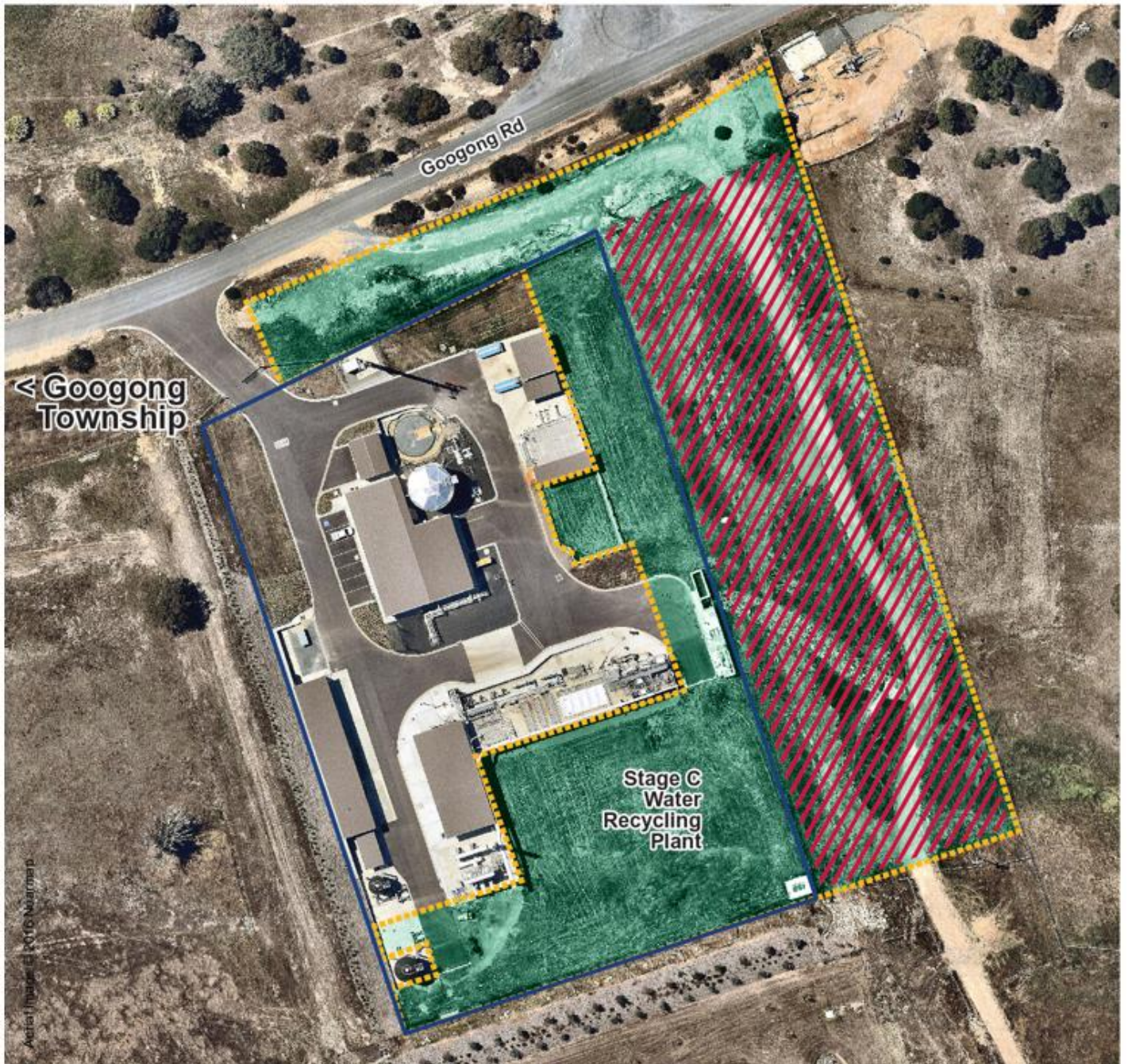


Figure 1-2: Site Location map showing the worksite at Googong WRP (Googong Road, Googong)



Legend

- Water Recycling Plant
- Subject to Part 5 approval
- Subject to Part 4 approval



Figure 1-3: Map showing delineation of Part 4 and Part 5 Approval work areas. Refer Section 2.4 for details of requirements for these areas



2.2 Objectives of the CEMP

- Ensure environmental safeguards are implemented correctly;
- Ensure compliance with the requirements of all relevant environmental legislation, conditions of any applicable licence, approval and permit;
- Ensure that works are managed to reduce adverse impacts on the environment; and any other objectives of the CEMP specific to the project.



2.3 Legislative context

Legislative Requirements

Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
General				
<i>Environmental Planning and Assessment Act 1979</i> (EP&A Act)	All	Comply with the terms Minister for Planning's approval for the IWC Project.	S75W	<p>The IWC Project has been granted a Concept Approval under Part 3A of the EP&A Act subject to Conditions of Approval (CoA).</p> <p>Stage C WRP has been granted Project Approvals under Parts 4 and 5 of the EP&A Act subject to Conditions of Approval (CoA).</p> <p>The construction of Stage C WRP must comply with all CoA. Any changes not consistent with the IWC Concept Approval would require additional assessment and approval from the Minister or Queanbeyan-Palerang Regional Council (QPRC).</p>
	BCA and Certification	<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> <p>Under Part 4 of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and</p> <p>Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.</p>	Part 4	Gongues Constructions will ensure that all new buildings and structures are constructed in accordance with the relevant requirements of the BCA and obtain the relevant construction/occupation certificates from QPRC.



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
Water				
<i>Water Management Act 2000 (WM Act)</i>	Water access and use.	Do not take water from a water source (a lake, river or estuary or place where water occurs naturally on or below the surface of the ground, and includes coastal waters) without an access licence. Do not use of water on land (unless supplied by a water utility, irrigation corporation etc. or in accordance with basic landholder rights) without a water use approval.	S56 S60A S89 S91A	The construction of Stage C WRP will be carried out consistent with the aims of the WM Act. It is not expected that groundwater will be intercepted during Stage C WRP construction works therefore it is not anticipated that a Water Access Licence under the WM Act will be required.
	Water management works	Do not construct/use a water supply work, drainage work or flood work without the appropriate approval.	S90 S91B S91C S91D	Consultation with Office of Environment and Heritage (OEH) / NSW Department of Primary Industries – Water (DPI – Water) will be undertaken where required, regarding works in and around waterways.
	Waterfront land.	Do not deposit material, excavate, or remove material within a watercourse bank, shore or bed, or on land 40 metres inland, or interfere with the likely flow of water to such a body, without a controlled activity approval.	S91	An approval to undertake controlled activities on water front land is not required as works are being undertaken on behalf of a public authority (QPRC). Refer to the Soil and Water Management Plan for water management requirements.
<i>Water Act 1912 (Water Act)</i> Note that this Act is being progressively repealed by the <i>Water Management Act 2000</i> .	Surface water	Obtain a licence or permit for construction or use of 'work' for purposes including the taking and using of water.	S21B	Water extraction is not anticipated for the Stage C WRP therefore approval under the <i>Water Act 1912</i> is not required.
	Groundwater	Obtain a licence where interference with groundwater is likely to occur.	S112 S121A	Water extraction is not anticipated for the Stage C WRP therefore approval under the <i>Water Act 1912</i> is not required.



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
<i>Protection of the Environment Operations Act 1997</i> (POEO Act)	Water pollution	Do not cause water pollution (other than to a sewer), except in accordance with the conditions of any EPA licence.	S120	The construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant. Under Section 48 of the POEO Act a Scheduled Activity Environment Protection Licence is required for construction of Stage C WRP. GTPL holds EPL 20788 for construction works. Refer to Soil and Water Management Plan for water management requirements.
<i>Local Government Act 1993</i> (LG Act)	Construction and operate water and wastewater facilities	Construction and operate water and wastewater facilities.	S60 and S64(local council)	QPRC (and their contractors) will be responsible for the construction of Stage C WRP, but as QPRC will operate the plant, QPRC (with support from GTPL) will seek approval from the Minister (through Department of Primary Industries (Water) under S60 of the <i>Local Government Act 1993</i> to construct and operate the Stage C WRP. QPRC may also require GTPL to submit an application for approval to work on the existing WRP under S64 of the Act.
	Construction and operate water and wastewater facilities	Construction and operate water and wastewater facilities.	S68 (private sector)	GTPL will seek approval from QPRC for approval to construct and operate (if required) sewerage infrastructure.
<i>Water Industry Competition Act 2006</i> (WIC Act)	Construction and operate water and wastewater facilities	Obtain a Network operator's licence prior to construction for construction maintenance and operation of water industry infrastructure.		As QPRC will operate the water and wastewater facilities, GTPL are not required to seek a Network operator's licence under the WIC Act.



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
Noise				
<i>Protection of the Environment Operations Act 1997</i>	Plant maintenance and operation	Do not operate plant if it emits noise caused by poor maintenance or operation.	S139	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant. Refer to Noise and Vibration Management Plan for noise management requirements.
	Materials management	Do not cause noise by failing to properly and efficiently deal with materials.	S140	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant. Refer to Noise and Vibration Management Plan for noise management requirements.
Roads				
<i>Roads Act 1993</i>	Works and structures on public roads	Do not erect a structure or carry out a work in, on or over a public road, or dig up or disturb the surface of a public road, or remove or interfere with a structure, work or tree on a public road, or pump water into a public road from any land adjoining the road, or connect a road (whether public or private) to a classified road, otherwise than with the consent of the appropriate roads authority.	S138	Gongues Constructions will apply for a road occupancy permit under Section 138 for any works undertaken on public roads.
Contaminated land				
<i>Protection of the Environment Operations Act 1997</i>	Land pollution	Do not cause or permit land pollution other than under authority of a licence or regulation. It is however not a land pollution offence to place virgin excavated natural material or lawful pesticides and fertilisers on land, or by placing matter on land that has been notified to the EPA as an unlicensed landfill and which is operated in accordance with the regulations.	S142A – S142E	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant. Soil and water management measures are outlined in the Soil and Water Management Plan.



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
<i>Contaminated Land Management Act 1997</i> (CLM Act)	Reporting contamination	<p>Notify the EPA if:</p> <p>Contaminants exceed thresholds contained in guidelines or the regulations where contamination has entered or will foreseeably enter neighbouring land, the atmosphere, groundwater or surface water.</p> <p>Contaminants in soil are equal to or exceed guideline levels with respect to the current or approved use of the land.</p> <p>Contamination meets other criteria that may be prescribed by the regulations.</p>	S60	<p>Construction of Stage C WRP will be carried out in accordance with the CLM Act, where relevant.</p> <p>Refer to Soil and Water Management Plan for contamination reporting requirements.</p>
Biodiversity				
<i>Noxious Weeds Act 1993</i>	Weed control	<p>As a private landowner, control noxious weeds on the land as required under the control category or categories specified in relation to the weeds concerned.</p> <p>Notify relevant control authority within 3 days of becoming aware (or ought reasonably to have known) that a notifiable weed (W1 weed) is on land.</p> <p>Must not scatter or cause to scatter notifiable weed material.</p>	S12 S16 S30	Construction of Stage C WRP will be carried out in accordance with the <i>Noxious Weeds Act 1993</i> , where relevant.
<i>National Parks and Wildlife Act 1974</i> (NPW Act)	Native fauna	Do not harm any animal that is of a threatened species population or ecological community, or its habitat except in accordance with a planning approval.	Part 8A	Construction of Stage C WRP will be carried out in accordance with the NPW Act, where relevant.
		Do not harm critical habitat except as in accordance with a planning approval.	S98	Construction of Stage C WRP will be carried out in accordance with the NPW Act, where relevant.
		Do not harm native fauna (other than listed unprotected fauna) except in accordance with a planning approval or licence.	S120	Construction of Stage C WRP will be carried out in accordance with the NPW Act, where relevant.



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
	Flora and native vegetation conservation	Do not pick protected native plants without a licence.	S117 S131	Construction of Stage C WRP will be carried out in accordance with the NPW Act, where relevant.
<i>Native Vegetation Act 2003</i>	Flora and native vegetation conservation	Only clear native vegetation in accordance with a planning approval or property vegetation plan.	S12	Construction of Stage C WRP will be carried out consistent with the aims of the Act and will consult with OEH where required, regarding clearing of native vegetation.
<i>Fisheries Management Act 1994 (FM Act)</i>	Dredging and reclamation	Do not carry out dredging or reclamation work except under the authority of a permit issued by the Minister.	S201	The IWC Project will be carried out in accordance with the <i>Fisheries Management Act 1994</i> , where relevant. No dredging or reclamation works are anticipated for Stage C WRP works.
	Fish passage	Do not block fish passage without a permit	S219	The IWC Project will be carried out in accordance with the <i>Fisheries Management Act 1994</i> , where relevant. No blockage of fish passage is anticipated for Stage C WRP works.
<i>Environment Protection Biodiversity Conservation Act 1999 (Commonwealth) (EPBC Act)</i>	Flora and fauna conservation	Do not kill, injure or take a member of a listed threatened species without a permit.	Part 13	Construction of Stage C WRP will be carried out in accordance with the EPBC Act, where relevant.
		Comply with the terms of any EPBC Act approval for the project.		The IWC Project was approved on 19 May 2011 (EPBC 2011/5829). The approval is subject to conditions. Relevant conditions are addressed in the CEMP
Waste				



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
<i>Protection of the Environment Operations Act 1997</i>	Littering	<p>Do not litter in a public place or an open private place. Do not litter from a vehicle.</p> <p>Only deposit advertising material in receptacles provided for mail or newspapers or under the door of the premises.</p> <p>Do not deposit advertising material on or in vehicles.</p>	Part 5.6A	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant.
	Waste and transportation	<p>Do not undertake a scheduled waste activity unless in accordance with an environmental protection licence.</p> <p>A licence must be obtained when construction and demolition wastes are applied to land under certain circumstances. This includes the reincorporation of crushed road base material back into roads and the placing of excess fill material onto properties. A licence is not required if the material:</p> <p>Is VENM.</p> <p>Does not exceed 200 tonnes in the Sydney, Newcastle and Wollongong areas, or 20,000 tonnes outside these areas.</p> <p>Is covered by a 'general exemption'. Current exempted materials are ENM, recycled aggregates and raw mulch. These exemptions are conditional and require some chemical testing of materials before they are placed onto land.</p> <p>A licence must be obtained if more than 2,500 tonnes (or cubic metres) is stored on a stockpile site at any one time, or more than 30,000 tonnes of waste is received per year from off site.</p>	Part 3.2 Schedule 1	<p>Due to the relatively small volume of spoil likely to be generated by the construction of Stage C WRP, it is unlikely that a licence to dispose of waste to landfill will be required. Spoil will be reused on site where possible.</p> <p>Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant.</p>



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
		Only transport waste to a facility that can lawfully accept the waste.	S143	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant. Waste management measures are outlined in the Waste and Resource Management Plan.
		Do not dispose of waste in a manner that harms or is likely to harm the environment.	S115	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant. Waste management measures are outlined in the Waste and Resource Management Plan.
Protection of the Environment Operations (Waste) Regulation 2005	Waste and transportation	Comply with general requirements for the transport of waste. For example, any vehicle used by the person to transport waste must be kept in a clean condition and be maintained so as to prevent spillage of waste. For some wastes only licensed transporters can be used.	Regulation cl.49	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant. Waste management measures are outlined in the Waste and Resource Management Plan.
		Comply with record keeping requirements in relation to the transport of certain types of waste.	Regulation Part 3	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant. Waste management measures are outlined in the Waste and Resource Management Plan.
Heritage				
<i>Heritage Act 1977</i> (Heritage Act)	Heritage	Do not undertake an activity that will affect a place, building, work, relic, moveable object or precinct which is subject to an Interim Heritage Order or is listed on the State Heritage Register without approval from the Heritage Council.	S56-57	Construction of Stage C WRP will be carried out in accordance with the aims of the Heritage Act.



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
		Do not disturb or excavate land with knowledge or reasonable cause to suspect that the disturbance or excavation will or is likely to result in a relic being discovered, exposed, moved, damaged or destroyed; or Do not disturb or excavate land on where a relic has been discovered or exposed.	S139	Construction of Stage C WRP will be carried out in accordance with the aims of the Heritage Act.
		Notify the heritage Council on discovery of a relic.	S146	Under Section146 of the Heritage Act the Heritage Council may need to be notified should a 'relic' be found which has not been previously identified in the EIS.
<i>National Parks and Wildlife Act 1974</i>	Aboriginal places and objects	Do not harm or desecrate an Aboriginal object or Aboriginal place without consent.	S86 S90	Construction of Stage C WRP will be carried out in accordance with the NPW Act, where relevant.
		Notify the OEH and DP&E immediately of the location or discovery of all new or unrecorded Aboriginal objects.	S89A	Construction of Stage C WRP will be carried out in accordance with the NPW Act, where relevant.
<i>Aboriginal and Torres Strait Islander Heritage Protection Act 1984</i> (Commonwealth)	Protection of areas and objects	Report any discovery of Aboriginal remains to the Federal Minister for the Sustainability, <i>Environment</i> , Water, Population and Communities.	S20	Construction of Stage C WRP will be carried out in accordance with the <i>Aboriginal and Torres Strait Islander Heritage Protection Act 1984</i> , where relevant.
		Comply with the provisions of any declaration in relation to a significant Aboriginal area or object.	S22	Construction of Stage C WRP will comply with the provisions of any declaration in relation to a significant Aboriginal area or object.
General				



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
<i>Protection of the Environment Operations Act 1997</i>	Harming the environment	Do not risk harming the environment by wilfully or negligently: disposing of waste unlawfully. causing any substance to leak, spill or otherwise escape (whether or not from a container); or emitting an ozone depleting substance	S115 S116 S117	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant.
	Control equipment	Properly and efficiently maintain and operate any installed pollution control equipment (including monitoring devices).	S167	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant.
	Notification of pollution incidents	Notify the EPA immediately of pollution incidents where material harm to the environment is caused or threatened.	S148	Construction of Stage C WRP will be carried out in accordance with the POEO Act, where relevant.
	Site licensing	Do not carry out or allow an activity listed in Schedule 1, or carry out work to enable such an activity, unless the premises are licensed by the EPA.	S47 S48	Construction of Stage C WRP will be carried out in accordance with the POEO Act and the relevant EPLs, where relevant.
<i>Environmentally Hazardous Chemicals Act 1985</i>	Hazards and risks	Obtain a licence to undertake prescribed activities involving environmentally hazardous chemicals or declared chemical wastes. Codes of practice for the Storage and Handling of Corrosive substances is required.		Construction of Stage C WRP will be carried out in accordance with the <i>Environmentally Hazardous Chemicals Act 1985</i> , where relevant.
<i>Dangerous Goods (Road and Rail Transport) Act 2008</i>	Hazards and risks	Ensure that dangerous goods are transported in a safe manner.	S9	Construction of Stage C WRP will be carried out in accordance with the <i>Dangerous Goods (Road and Rail Transport) Act 2008</i> , where relevant.



Act	Activity/aspect	Requirement	Reference	Applicability to the construction of Stage C WRP
<i>Pesticides Act 1999</i>	Hazards and risks	Use pesticides in an environmentally sensitive manner. Do not use an unregistered pesticide without a permit. Read the label or permit for the pesticide. Use registered pesticides in accordance with instructions on the label. Do not use any restricted pesticide unless authorised by a certificate of competency or a pesticide control order under the Act. Compliance with pesticide codes of practice is required.	S12 S13 S14 S15 S17	Construction of Stage C WRP will be carried out in accordance with the <i>Pesticides Act 1999</i> , where relevant.
<i>State Emergency and Rescue Management Act 1989</i>	Hazards and risks	Manage risks in emergency and/or maintenance situations at key infrastructure (in this case bush fire, flood or similar natural disaster) (SoC R2)		Construction of Stage C WRP will be carried out in accordance with the <i>State Emergency and Rescue Management Act 1989</i> where relevant in relation to emergency preparedness and response.
<i>Rural Fires Act 1997 and the Rural Fires Regulation 2002</i>	Hazards and risks	Manage risks in emergency and/or maintenance situations at key infrastructure (in this case bush fire, flood or similar natural disaster)		Construction of Stage C WRP will be carried out in accordance with the <i>Rural Fires Act 1997</i> where relevant – in relation to emergency situation management.
<i>National Greenhouse and Energy Reporting Act, 2007 and Regulations 2008</i>	Greenhouse gas emissions	Accounting and reporting of greenhouse gases produced and energy consumed during construction. Applicability dependent on thresholds.		The National Greenhouse and Energy Reporting Act 2007 (the NGER Act) is a unified framework for the reporting of greenhouse gas emissions (GHGs) and energy use for significant corporation emitters of greater than 50kt CO ₂ -e and energy consumption of 200Tj. GTPL is not required to report under the NGERs Act as they do not meet the required threshold.



2.4 Register of Approval Conditions

Conditions of Part 4 Approval

CoA No.	Requirement	Where addressed in the CEMP or subplan
Prior to commencement		
CoA 1	An erosion and sediment control plan (ESCP) must be prepared in accordance with the publication, The 'Blue Book' (Managing Urban Stormwater Soils and Construction) – by Landcom, Fourth Edition (2004) and be submitted to Council for endorsement prior to commencement of work. The ESCP shall include details of the proposed revegetation and rehabilitation including materials used, methods of application and timeframes.	Appendix C
During demolition and construction		
CoA 2	Erosion and sediment controls must be installed on the site and maintained during the construction period in accordance with the endorsed Erosion and Sediment Control Plan.	Appendix C
CoA 3	Erosion and sediment controls are to be in place before the disturbance of any soils on the site, and are to be maintained during the works and for as long as necessary after the completion to prevent sediment and dirty water leaving the site and/or entering the surface water system outside of the site.	Appendix C
CoA 4	All works associated with the construction of this development must be carried out between the following hours: Weekdays: 7.00am to 6.00pm Saturdays: 8.00am to 4.00pm Sundays and Public Holidays: NIL	Appendix K
CoA 5	The verge and other adjoining lands must not be used for storage of materials or disturbed by construction activities except for: (a) Installation of a temporary, stabilised construction access across the verge. (b) Installation of services. (c) Construction of an approved permanent verge crossing.	Overridden by Part 5 approval (see next table)



CoA No.	Requirement	Where addressed in the CEMP or subplan
CoA 6	All damage caused to public property during the establishment of the development must be repaired or reinstated prior to the issue of any Occupation Certificate.	4.3.4 4.3.14
CoA 7	A fence must be erected between the development site and public places before commencement of any other work.	4.3.13 Appendix I
General Conditions		
CoA 8	<p>The development must be carried out generally in accordance with all of the documents accompanying the development application and with the plans bearing the Council approval stamp, and any amended plans approved under subsequent modification(s) to the development consent, except where varied by notations made in red ink by Council or conditions of approval.</p> <p>In the event of any inconsistency between conditions of this consent and the drawings/documents referred to above, the conditions of this consent prevail.</p>	N/A
CoA 9	All construction and restoration work must be carried out strictly in accordance with Queanbeyan City Council's Development Construction Specification (Version 3.1, dated June 2011). The construction works shall be carried out, monitored and inspected in accordance with Specification CQS - Quality System Requirements.	4.3.2, 4.3.4, 4.3.14
CoA 10	<p>Any proposal changes must be referred to Essential Energy for comment; and</p> <p>Any existing encumbrances in favour of Essential Energy (or its predecessors) noted on the title of the above property are complied with.</p> <p>In addition, Essential Energy's records indicate there is electricity infrastructure located within close proximity of the property. Any activities within this location must be undertaken in accordance with the latest industry guideline currently known as ISSC 20 Guideline for the Management of Activities within Electricity Easements and Close to Infrastructure.</p> <p>Prior to carrying out any works, a "Dial Before You Dig" enquiry must be undertaken in accordance with the requirements of Part 5E (Protection of Underground Electricity Power Lines) of the Electricity Supply Act 1995 (NSW).</p> <p>Given there is electricity infrastructure in the area, it is the responsibility of the person/s completing any works around powerlines to understand their safety responsibilities. SafeWork NSW</p>	<p>WHS Management Plan</p> <p>Communicated via Site Induction & Safe Work Method Statements</p>



CoA No.	Requirement	Where addressed in the CEMP or subplan
	(www.safework.nsw.gov.au) has publications that provide guidance when working close to electricity infrastructure. These include the Code of Practice – Work near Overhead Power Lines/Underground Assets.	
Construction of Infrastructure		
CoA 11	All construction and restoration work must be carried out strictly in accordance with the approved drawings and Council's Googong Design and Construction Specifications (Version 1, dated June 2011).	2.1, 4.3.2, 4.3.4, 4.3.14
CoA 12	Lighting, fencing, traffic control advanced warning signs must be provided for the protection of works and for the safety and convenience of the public, in accordance with Council's Googong Design and Construction Specifications (Version 1, dated June 2011). Traffic movement in both directions on public roads and vehicular access to private properties must be maintained at all times, during the currency of the works.	4.3.13 Appendix I
CoA 13	A temporary Traffic Management Plan (TMP) providing advance warning signposting for the proposed construction access in Googong Road must be submitted to Council for approval prior to any construction traffic utilising the access.	Appendix I

Conditions of Part 5 Approval

CoA No.	Requirement	Where addressed in the CEMP or subplan
Add01	A Construction Environmental Management Plan (CEMP) is to be prepared and submitted to Council prior to construction works commencing that compiles with the requirements and findings of all management plans required in the Statement of Commitments and the additional conditions. The CEMP is to include: <ul style="list-style-type: none"> • details of measures to ensure effective erosion and sediment control in accordance with the EPA's Blue Book • measures for detection, management and disposal of soil contamination and any wastes generated or encountered during construction. • measures to treat and manage all noxious weeds in accordance with the Pesticides Act 1999 and the Pesticides Regulation 2009 on site at the start of throughout construction to limit the growth, spread and reproduction of these species. 	4.3.2 4.3.5 Appendix C Emergency Response Plan



CoA No.	Requirement	Where addressed in the CEMP or subplan
	<ul style="list-style-type: none"> • an emergency management plan to detail the notification requirements for incidents in accordance with sections 148-152 of the POEO Act. • standard operating procedure (SOP) for dewatering of sediment basins/dams at the site including incident reporting in accordance with the requirements of 148 of the POEO Act. 	
Add02	To manage potential erosion caused by excess recycled water discharges, site specific erosion and sediment control plans are required where there is land disturbance associated with works along the drainage line prepared in accordance with Managing Urban Stormwater: Soils and Construction Vol 1 and included in the Construction Environmental Management Plan. Detailed erosion and sediment control plans should also refer to relevant Volume 2 guidance including installation of gas and water pipe lines in Managing Urban Stormwater: Soils and Construction, Vol 2A Installation of Services; and for access roads and creek crossings in Managing Urban Stormwater: Soils and Construction, Vol 2C Unsealed Roads.	Appendix C
Add03	All wastes generated during the project must be managed in a manner that prevents the pollution of waters and air. Waste must be classified in accordance with the POEO Act and Waste Classification Guidelines (DECCW, 2010). All waste materials must be taken to a place which can lawfully receive them in accordance with the requirements of the POEO Act.	Appendix A
Add04	All works on waterfront land, including the stormwater outlet and energy dissipation structure associated with excess water discharges and any reconfiguration of the natural drainage line, be designed in accordance with the "Guidelines for Controlled Activities on Waterfront Land (DPI 2012).	N/A
Add05	Construction works are to comply with the Building Code of Australia's AS3959-2009 – Construction of Buildings in bushfire-prone areas.	N/A
Add06	Storage areas for fuels, oils and chemicals used during construction will be covered and contained within an impervious bund to retain any spills of more than 110% of the volume of the largest container in the bunded area. Any spillage will be immediately contained and absorbed with a suitable absorbent material. The contaminated material will be disposed of according to manufacturers and OEH requirements.	4.3.8 Appendix C
Add07	Prior to operation, the Essential Sewage and Recycled Water Quality Management Plan is to be updated to include the Stage C WRP works and ensure consistency with the Australian Guidelines for Water Recycling: Managing Health and Environmental Risks.	2.1
Add08	Site plans must include the entire extent of AHIMS sites and identify adequate exclusion zones to avoid construction impacts.	



CoA No.	Requirement	Where addressed in the CEMP or subplan
Add09	A development application is to be submitted for the use of the adjacent E2 zone land for temporary parking of construction vehicles and temporary access roads	Completed by GTPL

2.5 Statement of Commitments from EIS

SoC No.	Requirement	Where addressed in the CEMP or subplan
General		
C1	The Proposal must be carried out generally in accordance with the Concept Approval, EIS, Conditions of Determination, and the Statement of Commitments. Any modifications to the Proposal, if approved, would be subject to further assessment by GTPL and approval by QPRC. The assessment would need to demonstrate that any environmental impacts resulting from the modifications have been minimised.	EIS referenced throughout Controls from EIS referred in section 4.3
C2	All other licences, permits and approvals necessary for the construction of the Proposal would be obtained and maintained (e.g. Environment Protection Licence under the Protection of the Environment Operations Act 1997 (PoEO Act)).	2.4
C3	All contractors would be inducted on the key project environmental risks, procedures, mitigation measures and Conditions of Approval.	3.3
C4	An Environmental Controls Map would be prepared that would clearly mark no-go areas and other important environmental features/areas of sensitivity along with key environmental controls.	
C5	Site inspections to monitor environmental compliance and performance would be undertaken during construction at appropriate intervals.	5.1 Appendix B
C6	A CEMP would be prepared to manage the environmental issues assessed in this EIS, and ensure implementation of the identified mitigation measures where required during construction.	



SoC No.	Requirement	Where addressed in the CEMP or subplan
C7	All potentially impacted residents would be notified of the proposed works, including the nature and duration of construction activities, predicted noise levels and contact details would they have any issues with the construction activities. A community hotline would be maintained throughout the construction period any complaints would be responded to and logged in the complaints register for the Proposal.	4.3.14
Soils and water		
C8	Prior to commencement of works, a Soil and Water Management Plan would be prepared in accordance with the 'Blue Book' <i>Managing Urban Stormwater: Soils and Construction Guidelines</i> (Landcom, 2004) and the recommendations made in this EIS.	Appendix C
C9	A site-specific Erosion and Sediment Control Plan would be prepared to support the Soil and Water Management Plan and would include detail on the erosion and sediment controls to be installed. The Erosion and Sediment Control Plan would be implemented prior to and throughout construction and be updated and managed throughout as relevant to the activities during the construction and commissioning phases.	4.3.3 Appendix C
C10	Erosion and sediment control measures would be established prior to any clearing, grubbing and site establishment activities and would be maintained and regularly inspected (particularly following rainfall events) to ensure their ongoing functionality. Erosion and sediment control measures would be left in place until the works are complete and areas are stabilised.	4.3.3 Appendix C
C11	Trenching would be carried out progressively to minimise the length and duration of open excavations. Trenches would then be backfilled and compacted in layers.	Appendix C
C12	Stockpiles would be checked for stability weekly and after heavy rainfall.	4.3.3 Appendix C
C13	All run-off from the site would be directed to sediment basins (or other appropriate sediment control structures) which must be appropriately sized and maintained as per the Blue Book. Sediment basins would only be discharged to receiving waters once field tests/laboratory tests confirm the water quality parameters are within guideline limits.	4.3.3 Appendix C
C15	Vehicle wash down would take place in designated areas within the WRP site and away from drainage lines. Water from the wash down would be appropriately treated before being reused on site or discharged.	Appendix C



SoC No.	Requirement	Where addressed in the CEMP or subplan
C16	A dewatering procedure would be prepared and implemented to ensure the appropriate management of surface water/groundwater pumped out of excavations prior to discharge.	Appendix C
C17	Vehicles and machinery would be properly maintained and routinely inspected to minimise the risk of fuel/oil leaks.	4.3.8
C18	Temporary and permanent fuel storage areas would be designed and operated in accordance with Australian AS 1940 – <i>The storage and handling of flammable and combustible liquids</i> .	4.3.3 Appendix C
C19	Refuelling would occur within contained, hardstand areas in accordance with AS 1940 wherever possible. Where this is not possible, refuelling activities would be located away from drainage lines and be closely supervised, with a spill kit available.	4.3.3 Appendix C
C20	Construction chemical storage areas would be designed and operated in accordance with AS 1940 – <i>The storage and handling of flammable and combustible liquids</i> .	4.3.3 Appendix C
C21	A spill response procedure would be prepared and implemented and would detail the following: <ul style="list-style-type: none"> ▪ Information on spill kits ▪ Steps for containing and cleaning up a spill ▪ Waste disposal methods ▪ Training and induction requirements. 	Appendix G
C22	Spill clean-up kits would be located in appropriate locations, based on the risk of a spill occurring and potential volume of material that might be spilled at the particular location.	4.3.3 Appendix C
C23	If potentially contaminated land, spoil or fill is encountered works in the vicinity would be stopped or modified and would not recommence until the material has been analysed, the hazard has been assessed and appropriate action has been taken (including delineating areas of concern as required until earthworks can resume safely).	4.3.8
C24	In the event of a pollution incident, works would cease in the immediate vicinity and the EPA/QPRC would be notified by GTPL (if required), in accordance with Part 5.7 of the POEO Act.	5.3



SoC No.	Requirement	Where addressed in the CEMP or subplan
C25	The site would be re-profiled to achieve soil stability and congruity with the surrounding landscape. This would be done in consideration of the landscape and open space strategy for the Googong township development. Topsoil would be conserved and used for rehabilitation where possible.	4.3.2
Biodiversity		
C26	Clearing of vegetation and topsoil would be limited to the area within the designated construction footprint.	4.3.1
C27	The Contractor would be required to undertake construction of the Proposal having regard for the trees on the northern boundary of the WRP and Tree Protection Zones (TPZs) would be established in line with <i>AS 4970-2009 Protection of Trees on Development Sites</i> and would include exclusion fencing of TPZs.	4.3.5
C28	Weed control measures would be implemented in line with the Noxious Weed (Control Order) 2014. Measures to treat and manage all noxious weeds would be implemented in accordance with the Pesticides Act 1999 and the Pesticides Regulation 2009 on site at the start of throughout construction to limit the growth, spread and reproduction of these species.	4.3.5
C29	Cleared or exposed areas would be restored/rehabilitated in order to stabilise soils and improve visual amenity. Any additional landscaping undertaken during the restoration of the site would use native species, where possible.	4.3.5
C30	The measures outlined in the Googong Foreshores Interface Management Strategy would be implemented for the land to the east of the WRP including weed removal and restoration with native vegetation.	4.3.5 Appendix C
Noise and vibration		
C31	A Construction Noise and Vibration Management Plan would be prepared in accordance with AS2436:2010 to guide noise control on construction, maintenance and demolition sites for all construction activities in order to meet the EPA's Interim Construction Noise Guidelines (2009). The plan is to be included in the Construction Environment Management Plan (CEMP). It would outline measures to minimise construction noise and vibration impacts on sensitive receivers and procedures for responding to complaints.	Appendix K
C32	Works would generally be carried out during normal work hours (i.e. 7.00 am to 6.00 pm Monday to Friday; 8.00 am to 1.00 pm Saturdays). Any works outside these hours may be undertaken if approved by the EPA and any other relevant authorities. Out-of-hours construction works would satisfy criteria in Interim Construction Noise Guidelines (2009).	Appendix K



SoC No.	Requirement	Where addressed in the CEMP or subplan
Air quality		
C33	Plant and machinery would be regularly checked and maintained in a proper and efficient condition.	4.3.1
C34	Dust suppression measures would be implemented, including but not limited to: <ul style="list-style-type: none"> ▪ Water trucks would be used to reduce dust in dry, windy conditions ▪ Water (or alternate measures) would be applied to exposed surfaces (e.g. unpaved roads, stockpiles, hardstand areas and other exposed surfaces) ▪ Stockpiles would be covered when not in use ▪ Loads on trucks transporting material to and from the construction site would be appropriately covered and tailgates of road transport trucks would be securely fixed prior to loading and immediately after unloading ▪ Mud and dirt would be prevented from being tracked onto sealed road surfaces. 	4.3.1
C35	The burning of material on site would be prohibited, except under the instruction of NSW Rural Fire Services.	4.3.1
Traffic and access		
C36	A Traffic Management Plan would be prepared prior to construction to outline all access routes to, from and within the construction zones, traffic control methods to be utilised and methods to minimise impacts to the local road network. This plan would be prepared in accordance with the relevant standards and submitted to the relevant road authority for consultation and approval.	Appendix I
C37	All permits and approvals under the <i>Roads Act 1993</i> or for oversize vehicles would be obtained as required.	4.3.13
Visual amenity		
C38	The site would be kept tidy and well maintained, including removal of all rubbish at regular intervals. There would be no storage of materials beyond the construction boundaries.	4.3.9
C39	Temporary hoardings, barriers, traffic management and signage would be removed when no longer required.	4.3.9



SoC No.	Requirement	Where addressed in the CEMP or subplan
C40	Lighting needed for construction night-time activities (if approved) would be located away from public or sensitive viewing areas.	4.3.9
Aboriginal and non-Aboriginal heritage		
C41	The location of nearby Aboriginal and non-Aboriginal heritage sites would be clearly marked on all site plans and maps utilised for the construction of the Proposal.	
C42	If unforeseen items/objects are uncovered during construction, work would cease in the vicinity of the find and the Environment Manager would be notified immediately to assist in co-ordinating next steps which are likely to involve consultation with an archaeologist, OEH and Local Aboriginal Land Council. If human remains are found, work would cease, the site would be secured and the NSW Police and the OEH would be notified.	4.3.6
Waste		
C43	A Waste and Resource Management Plan would be prepared which details waste management strategies which are consistent with the <i>Waste Avoidance and Resource Recovery Act 2007</i> and the resource management hierarchy principles (in order of priority) of avoidance, resource recovery and disposal.	Appendix A
C44	The Waste and Resource Management Plan would include procedures to classify all waste types in accordance with the <i>Waste Classification Guidelines</i> (EPA, 2014) and NSW legislative requirements.	Appendix A
C45	Waste disposed of off-site would be disposed of to a waste facility that is licensed under the POEO Act to receive wastes of that type.	4.3.11 Appendix A
Hazards and risks		
C46	A Hazards, Risk and Safety Management Plan would be prepared that would detail the following (at a minimum): <ul style="list-style-type: none"> ▪ Implementation of appropriate safety and training procedures ▪ Risk register ▪ Emergency access ▪ Emergency response plan/s. 	Project Risk Assessment WHS Management Plan Emergency Response Plan Site Specific Safety Induction



SoC No.	Requirement	Where addressed in the CEMP or subplan
C47	Exclusion fencing would be installed, where appropriate, to avoid impacts to existing components of the WRP site or other exclusion zones.	Appendix J
C48	Service relocation would be undertaken in consultation with the relevant authority. Existing services would be marked on the Environmental Controls Map (or equivalent) to avoid direct impacts during construction.	



2.6 Commonwealth Environment Protection and Biodiversity Conservation Act 1999 Conditions of Approval

CoA	Condition	Where addressed in the CEMP or subplan
1.	The person taking the action must prepare and submit a Pink-tailed Worm-lizard Protection and Management Plan for the Minister's approval for the protection of Pink-tailed Worm-lizard (<i>Aprasia parapulchella</i>). The plan must include:	GTPL to retain conditions
	(ii) management measures to mitigate construction impacts;	
2.	To prevent impacts on listed threatened species and ecological communities, and the environment on Commonwealth land, the person taking the action must prepare and submit a Googong Foreshores Interface Management Strategy for the Minister's approval. The strategy must include measures to:	
	i) Induct construction workers and contractors about requirements to protect threatened species and the environment on Commonwealth land;	3.3
	ii) Provide indicative environmental management checklists to assist with monitoring the implementation of environmental management obligations during construction works;	Appendix B
	iii) Identify and implement erosion and sedimentation control measures;	Appendix C
	iv) Identify and implement appropriate weed hygiene measures;	4.3.5
	v) Protect and maintain the Googong Foreshores buffer area;	
	xi) Indicate timing and frequency of monitoring to determine impacts and effectiveness of mitigation measures;	6
	xiii) Undertake corrective actions if management measures are not achieved;	5.2
6.	Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans and strategies as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the department at the same time as the compliance report is published.	GTPL to retain condition



7.	Upon the direction of the Minister, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.	GTPL to retain condition Gongues shall comply with audit as per 6.2
11.	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plan or strategy required by this approval, and make them available upon request to the department. Such records may be subject to audit by the department or an independent auditor in accordance with section 458 of the <i>Environment Protection and Biodiversity Conservation Act 1999</i> , or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the department's website. The results of audits may also be publicised through the general media.	GTPL to retain condition



2.7 Licence conditions for EPL 20788

EPL No.	Condition	Where addressed in the CEMP or subplan
1 Administrative conditions		
A1 What the licence authorises and regulates		
A1.1	<p>This licence authorises the carrying out of the scheduled development work listed below at the premises listed in A2:</p> <p>Construction of Stage C WRP sewage treatment infrastructure including extension to the sewage reticulation system and capacity upgrade of Googong sewage treatment plant. Also includes the removal of the interim recycled water reservoirs.</p>	N/A
A1.1	<p>This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.</p> <p>Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.</p> <p>Scheduled Activity: Sewage Treatment</p> <p>Fee based Activity: Sewage treatment processing by small plants</p> <p>Scale: > 219 – 1000ML annual maximum volume of discharge</p>	N/A
A2 Premises or plant to which this licence applies		



EPL No.	Condition	Where addressed in the CEMP or subplan
A2.1	<p>The licence applies to the following premises:</p> <p>Googong Township Sewage Treatment system - Stage C</p> <p>Googong Road</p> <p>Googong</p> <p>NSW 2620</p> <p>Located within the Googong township development area, Old Cooma Road south of Googong Road, including the construction areas marked in green shading on map "Googong IWC Project - construction and operation EPL boundaries", prepared by RPS and received by EPA on 6 April 2017 (TRIM REF: DOC17/228875; EF16/5071).</p>	N/A
A3 Information supplied to the EPA		
A3.1	<p>Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.</p> <p>In this condition the reference to "the licence application" includes a reference to:</p> <p>a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and</p> <p>b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</p>	N/A
2 Discharges to Air and Water and Applications to Land		
P1 Location of monitoring/discharge points and areas		
P1.1	<p>The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.</p>	N/A
3 Limit Conditions		
L1 Pollution of waters		
L1.1	<p>Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i>.</p>	Emergency Response Management Plan



EPL No.	Condition	Where addressed in the CEMP or subplan												
L2 Load limits														
L2.1	The actual load of an assessable pollutant discharged from the premises during the reporting period must not exceed the load limit specified for the assessable pollutant in the table below.	N/A												
L2.2	<p>The actual load of an assessable pollutant must be calculated in accordance with the relevant load calculation protocol.</p> <table border="1"> <thead> <tr> <th>Assessable Pollutant</th> <th>Load limit (kg)</th> </tr> </thead> <tbody> <tr> <td>BOD (Enclosed Water)</td> <td></td> </tr> <tr> <td>Nitrogen (total) (Enclosed Water)</td> <td></td> </tr> <tr> <td>Oil and Grease (Enclosed Water)</td> <td></td> </tr> <tr> <td>Phosphorus (total) (Enclosed Water)</td> <td></td> </tr> <tr> <td>Total suspended solids (Enclosed Water)</td> <td></td> </tr> </tbody> </table>	Assessable Pollutant	Load limit (kg)	BOD (Enclosed Water)		Nitrogen (total) (Enclosed Water)		Oil and Grease (Enclosed Water)		Phosphorus (total) (Enclosed Water)		Total suspended solids (Enclosed Water)		N/A
Assessable Pollutant	Load limit (kg)													
BOD (Enclosed Water)														
Nitrogen (total) (Enclosed Water)														
Oil and Grease (Enclosed Water)														
Phosphorus (total) (Enclosed Water)														
Total suspended solids (Enclosed Water)														
L3 Waste														



EPL No.	Condition					Where addressed in the CEMP or subplan															
L3.1	<p>The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.</p> <p>Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.</p> <p>Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.</p> <p>This condition does not limit any other conditions in this licence.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Waste</th> <th>Description</th> <th>Activity</th> <th>Other Limits</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>General of Specific exempted waste</td> <td>Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2014</td> <td>As specified in each particular resource recovery exemption</td> <td>N/A</td> </tr> <tr> <td>NA</td> <td>Waste</td> <td>Any waste received on site that is below the licencing thresholds in Schedule 1 of the POEO Act, as in force from time to time.</td> <td></td> <td>N/A</td> </tr> </tbody> </table>					Code	Waste	Description	Activity	Other Limits	NA	General of Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2014	As specified in each particular resource recovery exemption	N/A	NA	Waste	Any waste received on site that is below the licencing thresholds in Schedule 1 of the POEO Act, as in force from time to time.		N/A	4.3.11 Appendix A
Code	Waste	Description	Activity	Other Limits																	
NA	General of Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2014	As specified in each particular resource recovery exemption	N/A																	
NA	Waste	Any waste received on site that is below the licencing thresholds in Schedule 1 of the POEO Act, as in force from time to time.		N/A																	
L4 Blasting																					
L4.1	The overpressure level from blasting operations at the premises must not exceed 120dB _(Lin Peak) at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.					N/A															
L4.2	The overpressure level from blasting operations at the premises must not exceed 115dB _(Lin Peak) for more than five percent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.					N/A															



EPL No.	Condition	Where addressed in the CEMP or subplan
L4.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	N/A
L4.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec for more than five percent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	N/A
L5 Hours of operations		
L5.1	<p>Standard working hours</p> <p>Unless otherwise specified by any other condition of this licence, all construction activities are:</p> <ul style="list-style-type: none"> a) restricted to between the hours of 7:00am and 6:00pm Monday to Friday; b) restricted to between the hours of 8:00am and 1:00pm Saturday; and c) not to be undertaken on Sunday and Public Holidays. 	<p>4.3.4</p> <p>Appendix K</p>
L5.2	<p>Exemptions to standard construction hours</p> <p>The following activities may be carried outside the standard construction hours permitted by Condition L5.1:</p> <ul style="list-style-type: none"> a) the delivery of oversized plant or structures that police or other authorised authorities determine require special arrangements to transport along public roads; b) emergency work to avoid the loss of lives or property, or to prevent environmental harm; c) construction activities at the permanent reservoir site can occur between the hours of 7:00am and 6:00pm Monday to Friday, and, 7:00am to 5:00pm Saturday and Sunday until 30 June 2017, subject to noise verification monitoring being undertaken in accordance with Condition M5.1. 	Appendix K
L5.3	<p>Notification</p> <p>In the case of L4.2 a) and b) above the licensee must notify the EPA, local Council and the affected community as soon as practicable after the need for the work outside the hours specified in conditions L4.1 becomes known to the licensee.</p>	Appendix K
4 Operating Conditions		



EPL No.	Condition	Where addressed in the CEMP or subplan
O1 Activities must be carried out in a competent manner		
O1.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	4.3.2, 4.3.3, 4.3.8
O2 Maintenance of plant and equipment		
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.	4.3.1, 4.3.4 Appendix K
O3 Dust		
O3.1	All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.	Appendix C
O4 Waste management		
O4.1	The licensee must assess, classify and manage any waste generated at the premises in accordance with EPA's Waste Classification Guidelines Part 1 : Classifying Waste 2014.	Appendix A
O4.2	If waste is transported from the premises, the licensee must ensure that the waste is transported: (a) by a waste transporter authorised to transport such waste; and (b) to a place that can lawfully accept that waste.	4.3.11 Appendix A
O5 Other operating conditions		
O5.1	The licensee must ensure that all practicable and reasonable noise and vibration mitigation and management measures are used during construction work authorised by this licence, including the following measures: (a) identifying and using least noisy construction methods, vehicles, plant and equipment available for the type of work being undertaken;	Appendix K



EPL No.	Condition	Where addressed in the CEMP or subplan
	<p>(b) positioning plant and equipment that generates high noise levels, impulsive noise, intermittent noise, low-frequency noise or tonal noise, so as to minimise noise and vibration impacts on surrounding noise sensitive receivers;</p> <p>(c) avoiding the simultaneous operation of more than one item of noisy plant or equipment close together and near noise sensitive receivers;</p> <p>(d) scheduling respite periods if the work to be undertaken would be likely to generate noise and vibration emissions from the premises and would be conducted over extended periods in the same locality;</p> <p>(e) planning the work site and work processes and taking all such practicable measures necessary to minimise movements that would activate audible reversing and movements alarms, especially during out of hours work;</p> <p>(f) undertaking any loading or unloading operations away from noise sensitive receivers,</p> <p>(g) selecting and locating access points and roads to the premises as far away as practicable from noise sensitive receivers;</p> <p>(h) preventing vehicle, plant and equipment queuing and idling outside the hours of operation prescribed in condition L2.1; and</p> <p>(i) installing measures to effectively dampen noise impacts from temporary road plates, metal trays, tipper bodies and bins.</p>	
O5.3	<p>Erosion and sediment control</p> <p>Prior to undertaking any construction work, including any earthmoving or vegetation removal work, the licensee must implement erosion and sediment control measures to prevent pollution of waters. These erosion and sediment control measures must be designed and operated in accordance with the guideline "Managing Urban Stormwater: Soils and Construction" Vol 1. 4th Ed. "The Blue Book".</p>	Appendix C
O5.4	<p>The licensee must check the operation of soil and water management works weekly, and prior to forecast rainfall events, and immediately following rainfall events, and initiate repair and maintenance of these works when required to prevent pollution of waters.</p>	Appendix C

5 Monitoring and Recording Conditions

M1 Monitoring records



EPL No.	Condition	Where addressed in the CEMP or subplan
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	5.1
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	3.2
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	N/A
M2 Testing methods - load limits		
Note	Division 3 of the Protection of the Environment Operations (General) Regulation 2009 requires that monitoring of actual loads of assessable pollutants listed in L2.2 must be carried out in accordance with the relevant load calculation protocol set out for the fee-based activity classification listed in the Administrative Conditions of this licence.	Retained by GTPL
M3 Recording of pollution complaints		
M3.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	4.3.14



EPL No.	Condition	Where addressed in the CEMP or subplan
M3.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	4.3.14
M3.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	GTPL to retain copies
M3.4	The record must be produced to any authorised officer of the EPA who asks to see them.	5.2.1
M4 Telephone complaints line		
M4.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Retained by GTPL
M4.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	Retained by GTPL
M4.3	The preceding two conditions do not apply until three months after the date of the issue of this licence.	Retained by GTPL
M5 Noise monitoring		
M5.1	The licensee must undertake noise verification monitoring to demonstrate that noise generated as a result of construction activities associated with the installation of the new reservoirs during extended operating hours in May and June 2017 as referenced in Condition L5.2c) does not exceed background +5dB at nearest receivers.	Retained by GTPL
6 Reporting Conditions		
R1 Annual return documents		



EPL No.	Condition	Where addressed in the CEMP or subplan
R1.1	<p>The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <ol style="list-style-type: none"> 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. <p>At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.</p>	Retained by GTPL
R1.2	<p>An Annual Return must be prepared in respect of each reporting period, except as provided below.</p> <p>Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.</p>	Retained by GTPL
R1.3	<p>Where this licence is transferred from the licensee to a new licensee:</p> <ol style="list-style-type: none"> a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period. <p>Note: An application to transfer a licence must be made in the approved form for this purpose.</p>	Retained by GTPL



EPL No.	Condition	Where addressed in the CEMP or subplan
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.	Retained by GTPL
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	Retained by GTPL
R1.6	Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date. The notification must specify: a) the assessable pollutants for which the actual load could not be calculated; and b) the relevant circumstances that were beyond the control of the licensee.	Retained by GTPL
R1.7	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	Retained by GTPL
R1.8	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	Retained by GTPL
R2 Notification of environmental harm		
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555. Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	Emergency Response Management Plan



EPL No.	Condition	Where addressed in the CEMP or subplan
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.	Emergency Response Management Plan
R3 Written report		
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	CEMP addresses investigation and reporting responsibilities by role.
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	CEMP addresses investigation and reporting responsibilities by role.
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	CEMP addresses investigation and reporting responsibilities by role.



EPL No.	Condition	Where addressed in the CEMP or subplan
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	CEMP addresses investigation and reporting responsibilities by role.
7 General Conditions		
G1 Copy of licence kept at the premises or plant		
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	5.3
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	5.3
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	5.3



2.8 Licence conditions for EPL 20188

EPL No.	Condition	Where addressed in the CEMP or subplan
1 Administrative conditions		
A1 What the licence authorises and regulates		
A1.1	<p>This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.</p> <p>Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.</p> <p>Scheduled Activity: Sewage Treatment</p> <p>Fee based Activity: Sewage treatment processing by small plants</p> <p>Scale: > 219 – 1000ML annual maximum volume of discharge</p>	N/A
A2 Premises or plant to which this licence applies		



EPL No.	Condition	Where addressed in the CEMP or subplan
A2.1	<p>The licence applies to the following premises:</p> <p>Googong Township Sewage Treatment system - Stage C</p> <p>Googong Road</p> <p>Googong</p> <p>NSW 2620</p> <p>Located within the Googong township development area, Old Cooma Road south of Googong Road, including the construction areas marked in green shading on map "Googong IWC Project - construction and operation EPL boundaries", prepared by RPS and received by EPA on 6 April 2017 (TRIM REF: DOC17/228875; EF16/5071).</p>	N/A
A2.2	<p>The premises also includes the reticulation system owned and operated by the licensee that is associated with the sewage treatment plant identified in condition A2.1.</p>	N/A
A3 Information supplied to the EPA		
A3.1	<p>Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.</p> <p>In this condition the reference to "the licence application" includes a reference to:</p> <p>a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and</p> <p>b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</p>	N/A
2 Discharges to Air and Water and Applications to Land		
P1 Location of monitoring/discharge points and areas		
P1.1	<p>The following utilisation areas referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.</p>	N/A
3 Limit Conditions		



EPL No.	Condition	Where addressed in the CEMP or subplan												
L1 Pollution of waters														
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> .	Emergency Response Management Plan												
L2 Load limits														
L2.1	The actual load of an assessable pollutant discharged from the premises during the reporting period must not exceed the load limit specified for the assessable pollutant in the table below.	N/A												
L2.2	<p>The actual load of an assessable pollutant must be calculated in accordance with the relevant load calculation protocol.</p> <table border="1"> <thead> <tr> <th>Assessable Pollutant</th> <th>Load limit (kg)</th> </tr> </thead> <tbody> <tr> <td>BOD (Enclosed Water)</td> <td></td> </tr> <tr> <td>Nitrogen (total) (Enclosed Water)</td> <td></td> </tr> <tr> <td>Oil and Grease (Enclosed Water)</td> <td></td> </tr> <tr> <td>Phosphorus (total) (Enclosed Water)</td> <td></td> </tr> <tr> <td>Total suspended solids (Enclosed Water)</td> <td></td> </tr> </tbody> </table>	Assessable Pollutant	Load limit (kg)	BOD (Enclosed Water)		Nitrogen (total) (Enclosed Water)		Oil and Grease (Enclosed Water)		Phosphorus (total) (Enclosed Water)		Total suspended solids (Enclosed Water)		N/A
Assessable Pollutant	Load limit (kg)													
BOD (Enclosed Water)														
Nitrogen (total) (Enclosed Water)														
Oil and Grease (Enclosed Water)														
Phosphorus (total) (Enclosed Water)														
Total suspended solids (Enclosed Water)														
L3 Concentration limits														
L3.1	For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table	Appendix C												
L3.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges	Appendix C												
L3.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s	Appendix C												



EPL No.	Condition	Where addressed in the CEMP or subplan					
L3.4	Water and/or Land Concentration Limits	Appendix C					
	<u>Point 1,2</u>						
	Pollutant		Units of measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 Percentile concentration limit
	BOD		milligrams per litre		10		TBA
	Chlorine (free residual)		milligrams per litre		0.1		TBA
	Faecal Coliforms		colony forming units per 100 millilitres		150		TBA
	Nitrogen (ammonia)		milligrams per litre		2		TBA
	Nitrogen (total)		milligrams per litre		10		TBA
	Oil and Grease		milligrams per litre		2		TBA
	pH		pH		6.5 - 8.0		TBA
	Phosphorus (total)		milligrams per litre		0.5		TBA
	Total suspended solids		milligrams per litre		10		TBA



EPL No.	Condition	Where addressed in the CEMP or subplan									
L4 Volume and mass limits											
L4.1	<p>For each discharge point or utilisation area specified below (by appoint number), the volume/mass of:</p> <ul style="list-style-type: none"> a) Liquids discharged to water; or; b) Solids or liquids applied to the area; <p>Must not exceed the volume/mass limit specified for that discharge point or area</p> <table border="1"> <thead> <tr> <th>Point</th> <th>Units of measure</th> <th>Volumne/Mass Limit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>kilolitres per day</td> <td>3000</td> </tr> <tr> <td>2</td> <td>kilolitres per day</td> <td>3000</td> </tr> </tbody> </table>	Point	Units of measure	Volumne/Mass Limit	1	kilolitres per day	3000	2	kilolitres per day	3000	Appendix C
Point	Units of measure	Volumne/Mass Limit									
1	kilolitres per day	3000									
2	kilolitres per day	3000									



EPL No.	Condition	Where addressed in the CEMP or subplan																				
L5 Waste																						
L5.1	<p>The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.</p> <p>Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.</p> <p>Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.</p> <p>This condition does not limit any other conditions in this licence.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Waste</th> <th>Description</th> <th>Activity</th> <th>Other Limits</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>Effluent</td> <td>As defined in Schedule 1 of the POEO Act, as in force from time to time</td> <td>Sewage Treatment</td> <td>NA</td> </tr> <tr> <td>NA</td> <td>Waste</td> <td>Any waste received on site that is below the licencing thresholds in Schedule 1 of the POEO Act, as in force from time to time.</td> <td></td> <td>N/A</td> </tr> <tr> <td>NA</td> <td>General of Specific exempted waste</td> <td>Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2014</td> <td>As specified in each particular resource recovery exemption</td> <td>N/A</td> </tr> </tbody> </table>	Code	Waste	Description	Activity	Other Limits	NA	Effluent	As defined in Schedule 1 of the POEO Act, as in force from time to time	Sewage Treatment	NA	NA	Waste	Any waste received on site that is below the licencing thresholds in Schedule 1 of the POEO Act, as in force from time to time.		N/A	NA	General of Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2014	As specified in each particular resource recovery exemption	N/A	4.3.11 Appendix A
Code	Waste	Description	Activity	Other Limits																		
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EPL No.	Condition	Where addressed in the CEMP or subplan
L6 Potentially offensive odour		
L6.1	<p>No condition in this licence identifies a potentially offensive odour for the purpose of section 129 of the Protection of the Environment Operations Act 1997</p> <p>Note: Section 129 of the Protection of the Environment Operation Act 1997 provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.</p>	Appendix A
4 Operating Conditions		
O1 Activities must be carried out in a competent manner		
O1.1	<p>Licensed activities must be carried out in a competent manner.</p> <p>This includes:</p> <ul style="list-style-type: none"> a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity. 	4.3.2, 4.3.3, 4.3.8
O2 Maintenance of plant and equipment		
O2.1	<p>All plant and equipment installed at the premises or used in connection with the licensed activity:</p> <ul style="list-style-type: none"> a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner. 	4.3.1, 4.3.4 Appendix K



EPL No.	Condition	Where addressed in the CEMP or subplan				
O3 Emergency response						
O3.1	In the event of an overflow or bypass that harms or is likely to harm the environment, the licensee must use all the practicable measures to minimise the impact of the overflow or bypass on the environment and public health. These measures are to be implemented as soon as practical after the licensee or one of the licensee's employees or agents become aware of the overflow or bypass.	Emergency Response Management Plan				
O4 Processes and management						
O4.1	<p>Sewage or effluent must not be discharged from Point 1 or Point 2 unless it has been treated in accordance with the requirements of the table below.</p> <p>The flow specified in the table below are the inflow to the sewage treatment plant.</p> <table border="1"> <thead> <tr> <th>Required Treatment Process</th> <th>Flow Range</th> </tr> </thead> <tbody> <tr> <td>Screening, degritting, aeration, membrane filtration, UV disinfection</td> <td>All liquid waste inflows</td> </tr> </tbody> </table>	Required Treatment Process	Flow Range	Screening, degritting, aeration, membrane filtration, UV disinfection	All liquid waste inflows	Appendix C
Required Treatment Process	Flow Range					
Screening, degritting, aeration, membrane filtration, UV disinfection	All liquid waste inflows					
O4.2	<p>The licensee is not taken to have breached this condition if the licensee can demonstrate:</p> <ul style="list-style-type: none"> a) The failure to treat the liquid waste as required was solely as a result of a failure of the power supply to the premises, or a failure of essential equipment; b) The failure of power supply or equipment could not reasonably have been prevented; and c) Normal operating conditions were restored as soon as possible after the power supply failure or the failure of essential equipment. 	Appendix C				
O5 Waste management						
O5.1	The licensee must assess, classify and manage any waste generated at the premises in accordance with EPA's Waste Classification Guidelines as in force from time to time	Appendix A				



EPL No.	Condition	Where addressed in the CEMP or subplan
O6 Other operating conditions		
O6.1	Extensions to the reticulation system The licensee must ensure that any extensions to the reticulation system are planned, designed, constructed and installed to prevent as far as practicable overflows from the premises	Appendix K
O6.2	Noise emitted from the operations of infrastructure associated with the treatment of sewage shall not exceed 35dB(A) (L Aeq(15min)) at any residence on privately owned land	Appendix K
5 Monitoring and Recording Conditions		
M1 Monitoring records		
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	5.1
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	3.2
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	N/A



EPL No.	Condition	Where addressed in the CEMP or subplan																																								
M2 Requirement to monitor concentration of pollutants discharged																																										
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	Appendix C																																								
M2.2	<p>Water and/ or Land Monitoring Requirements</p> <p><u>Point 1</u></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>BOD</td> <td>milligrams per litre</td> <td>Monthly</td> <td>24 hour composite sample</td> </tr> <tr> <td>Chlorine (free residual)</td> <td>milligrams per litre</td> <td>Monthly</td> <td>In situ</td> </tr> <tr> <td>Faecal Coliforms</td> <td>colony forming units per 100 millilitres</td> <td>Monthly</td> <td>Grab sample</td> </tr> <tr> <td>Nitrogen (ammonia)</td> <td>milligrams per litre</td> <td>Monthly</td> <td>24 hour composite sample</td> </tr> <tr> <td>Nitrogen (total)</td> <td>milligrams per litre</td> <td>Monthly</td> <td>24 hour composite sample</td> </tr> <tr> <td>Oil and Grease</td> <td>milligrams per litre</td> <td>Monthly</td> <td>24 hour composite sample</td> </tr> <tr> <td>pH</td> <td>pH</td> <td>Monthly</td> <td>Grab sample</td> </tr> <tr> <td>Phosphorus (total)</td> <td>milligrams per litre</td> <td>Monthly</td> <td>24 hour composite sample</td> </tr> <tr> <td>Total suspended solids</td> <td>milligrams per litre</td> <td>Monthly</td> <td>24 hour composite sample</td> </tr> </tbody> </table>	Pollutant	Units of measure	Frequency	Sampling Method	BOD	milligrams per litre	Monthly	24 hour composite sample	Chlorine (free residual)	milligrams per litre	Monthly	In situ	Faecal Coliforms	colony forming units per 100 millilitres	Monthly	Grab sample	Nitrogen (ammonia)	milligrams per litre	Monthly	24 hour composite sample	Nitrogen (total)	milligrams per litre	Monthly	24 hour composite sample	Oil and Grease	milligrams per litre	Monthly	24 hour composite sample	pH	pH	Monthly	Grab sample	Phosphorus (total)	milligrams per litre	Monthly	24 hour composite sample	Total suspended solids	milligrams per litre	Monthly	24 hour composite sample	Appendix C
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EPL No.	Condition				Where addressed in the CEMP or subplan
	Point 3				
	Pollutant	Units of measure	Frequency	Sampling Method	
	BOD	milligrams per litre	Monthly during discharge	Grab sample	
	Chlorine (free residual)	milligrams per litre	Monthly during discharge	In situ	
	Faecal Coliforms	colony forming units per 100 millilitres	Monthly during discharge	Grab sample	
	Nitrogen (ammonia)	milligrams per litre	Monthly during discharge	Grab sample	
	Nitrogen (total)	milligrams per litre	Monthly during discharge	Grab sample	
	pH	pH	Monthly during discharge	Grab sample	
	Phosphorus (total)	milligrams per litre	Monthly during discharge	Grab sample	
	Total suspended solids	milligrams per litre	Monthly during discharge	Grab sample	



EPL No.	Condition	Where addressed in the CEMP or subplan				
	Point 4,5,6,7,8,9,10					
	<table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> </table>		Pollutant	Units of measure	Frequency	Sampling Method
	Pollutant		Units of measure	Frequency	Sampling Method	
	BOD		milligrams per litre	Quarterly	Grab sample	
	Enterococci		colony forming units per 100 millilitres	Quarterly	Grab sample	
	Faecal Coliforms		colony forming units per 100 millilitres	Quarterly	Grab sample	
	Nitrogen (ammonia)		milligrams per litre	Quarterly	Grab sample	
	Nitrogen (total)		milligrams per litre	Quarterly	Grab sample	
	Oil and Grease		milligrams per litre	Quarterly	Grab sample	
	pH		pH	Quarterly	Grab sample	
	Phosphorus (total)		milligrams per litre	Quarterly	Grab sample	
Total suspended solids	milligrams per litre	Quarterly	Grab sample			
M3 Testing methods – concentration limits						
M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EAP in writing before any tests are conducted.	Appendix C				
M4 Testing methods – load limits						
Note	Division 3 of the Protection of the Environment Operations (General) Regulation 2009 requires that monitoring of actual loads of assessable pollutants listed in L2.2 must be carried out in accordance with the relevant load calculation protocol set out for the fee-based activity classification listed in the Administrative Conditions of this licence.	Retained by GTPL				
M5 Recording of pollution complaints						



EPL No.	Condition	Where addressed in the CEMP or subplan
M5.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	4.3.14
M5.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	4.3.14
M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	GTPL to retain copies
M5.4	The record must be produced to any authorised officer of the EPA who asks to see them.	5.2.1
M6 Telephone complaints line		
M6.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	GTPL to retain copies
M6.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	GTPL to retain copies
M6.3	The preceding two conditions do not apply until three months after the date of the issue of this licence.	GTPL to retain copies
M6.4	For the purpose of condition M5.1, operating hours are defined as twenty-four hours a day, seven days a week	4.3.14
M6.5	The public notification referred to in condition M5.2 must include specific reference to the fact that the complaints line may be used by the community for the reporting of overflows.	4.3.14
M7 Requirement to monitor volume or mass		



EPL No.	Condition	Where addressed in the CEMP or subplan																		
M7.1	<p>For each discharge point or utilisation area specified below, the licensee must monitor:</p> <ul style="list-style-type: none"> a) The volume of liquids discharged to water or applied to the area; b) The mass of solids applied to the area c) The mass of pollutants emitted to the air; <p>At the frequency and using the method and units of measure, specified below.</p> <table border="1"> <thead> <tr> <th colspan="3">Point 1</th> </tr> <tr> <th>Frequency</th> <th>Units of measure</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Daily during any discharge</td> <td>kilolitres per day</td> <td>Flow meter and continuous logger</td> </tr> <tr> <th colspan="3">Point 2</th> </tr> <tr> <th>Frequency</th> <th>Units of measure</th> <th>Sampling Method</th> </tr> <tr> <td>Daily during any discharge</td> <td>kilolitres per day</td> <td>Flow meter and continuous logger</td> </tr> </tbody> </table>	Point 1			Frequency	Units of measure	Sampling Method	Daily during any discharge	kilolitres per day	Flow meter and continuous logger	Point 2			Frequency	Units of measure	Sampling Method	Daily during any discharge	kilolitres per day	Flow meter and continuous logger	Appendix C
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M7.2	Equipment used to monitor the volume must provide data that is within 5 percent of the actual volume over the likely full range of flow required to be measured by the equipment	Appendix C																		
M7.3	In the event that the licensee cannot comply with a volume monitoring method as required by this license solely due to the failure or malfunction of essential monitoring equipment, volume may be estimated using another agreed method approved in writing by the EPA. This provision only applies for the duration of the failure or malfunction. The licensee is to rectify the failure or malfunction as soon as practicable.	Appendix C																		
M7.4	<p>The licensee must:</p> <ul style="list-style-type: none"> a) Submit in writing to the EPA a proposal for a method of volume estimation; or b) Use a method of volume estimation already approved in writing by the EPA <p>To be used in the event that essential monitoring equipment referred to in the previous condition has failed or malfunctioned.</p>	Appendix C																		
M8 requirement to record bypass incidents from sewage treatment plants																				



EPL No.	Condition	Where addressed in the CEMP or subplan
M8.1	<p>The licensee must record the following details in respect of each bypass of any of the appropriate treatment processes required by condition O4.1 which may be reasonably expected to adversely affect the quality of the final discharge:</p> <ul style="list-style-type: none"> a) The EPA point identification number through which the bypass discharged; b) The date, estimated start time and estimated duration of the bypass; c) The estimated volume of the bypass; d) The level of treatment of the sewage at the STP prior to discharge e) The probable cause of the bypass; f) Any actions taken to stop the bypass happening; and g) Any actions taken to prevent the bypass happening again. 	GTPL to retain copies
M8.2	<p>The licensee must record the following details in relation to each observed or reported overflow from the reticulation system and from the sewage treatment plant:</p> <ul style="list-style-type: none"> a) The location of the overflow; b) The date, estimated start time and estimated duration of the overflow; c) The estimated volume of the overflow; d) A description of the receiving environment of the overflow; e) Classification as a dry or wet weather overflow; f) The probable cause of the overflow; g) Any actions taken to stop the overflow happening; h) Any actions taken to clean up the overflow; and i) Any actions taken to prevent the overflow happening again 	GTPL to retain copies

M9 Other monitoring and recording conditions



EPL No.	Condition	Where addressed in the CEMP or subplan
M9.1	Biosolids at the premises must be recorded, monitored and classified in accordance with the Biosolids Guidelines, to the extent that those Guidelines are applicable, or as otherwise approved in writing by the EPA	Appendix C
Note	This condition does not apply to the reuse or disposal of biosolids by the licensee at locations other than the premises	N/A
6 Reporting Conditions		
R1 Annual return documents		
R1.1	<p>The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <ol style="list-style-type: none"> 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. <p>At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.</p>	Retained by GTPL
R1.2	<p>An Annual Return must be prepared in respect of each reporting period, except as provided below.</p> <p>Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.</p>	Retained by GTPL



EPL No.	Condition	Where addressed in the CEMP or subplan
R1.3	<p>Where this licence is transferred from the licensee to a new licensee:</p> <p>a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and</p> <p>b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.</p> <p>Note: An application to transfer a licence must be made in the approved form for this purpose.</p>	Retained by GTPL
R1.4	<p>Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:</p> <p>a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or</p> <p>b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.</p>	Retained by GTPL
R1.5	<p>Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:</p> <p>a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or</p> <p>b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.</p>	Retained by GTPL
R1.6	<p>Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date. The notification must specify:</p> <p>a) the assessable pollutants for which the actual load could not be calculated; and</p> <p>b) the relevant circumstances that were beyond the control of the licensee.</p>	Retained by GTPL
R1.7	<p>The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.</p>	Retained by GTPL



EPL No.	Condition	Where addressed in the CEMP or subplan
R1.8	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	Retained by GTPL
R2 Notification of environmental harm		
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555. Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	Emergency Response Management Plan
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.	Emergency Response Management Plan
R3 Written report		
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	CEMP addresses investigation and reporting responsibilities by role.
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	CEMP addresses investigation and reporting responsibilities by role.



EPL No.	Condition	Where addressed in the CEMP or subplan
R3.3	<p>The request may require a report which includes any or all of the following information:</p> <ul style="list-style-type: none"> a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters. 	CEMP addresses investigation and reporting responsibilities by role.
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	CEMP addresses investigation and reporting responsibilities by role.
R4 Annual system performance report		
R4.1	The licensee must supply to the EPA an Annual System Performance Report not later than 60 days after the end of each reporting period	CEMP addresses investigation and reporting responsibilities by role.



EPL No.	Condition	Where addressed in the CEMP or subplan
R4.2	<p>The report is to supplement the Annual Return and must include but need not be limited to:</p> <ul style="list-style-type: none"> a) The 50 percentile, 90 percentile, 100 percentile and 3DGM values calculated from the monitoring data required by this licence for the reporting period for each pollutant which has corresponding concentration limits specified in this licence; b) The total amounts of biosolids, as classified in the Biosolids Guideline, disposed of on-site, off-site and to landfill during the reporting period; c) A diagram showing the major process elements, discharge points and monitoring points at the premises' sewage treatment plant(s), where there has been any significant change since the previous reporting period or this information has not been provided previously to the EPA; d) The number of dry and wet weather bypasses recorded over the reporting period (recorded in accordance with condition M7) e) A breakdown of the total number of complaints received by the licensee during the reporting period in relation to the premises into categories of "odours – sewage treatment plant", "odours – reticulation system", "water pollution – sewage treatment plant", "water pollution – reticulation plant" and any other category indicated by the complaints; f) A summary of observed, reported or recorded wet weather overflows and observed, reported or recorded dry weather overflows and sewage treatment plant bypasses. These dates are to be for the current reporting period and for the four previous twelve-month periods, for which the data has been collected. Any significant actions taken to address bypasses or overflows are to be noted; g) The amount of rainfall measured at rain gauge at the STP, or at the rain gauge closest to the centre of the catchment of the sewage treatment system, for each month of the reporting period. 	<p>CEMP addresses investigation and reporting responsibilities by role.</p>



EPL No.	Condition	Where addressed in the CEMP or subplan
R4.3	The Annual System Performance Report must be presented in a format approved in writing by the EPA.	CEMP addresses investigation and reporting responsibilities by role.
7 General Conditions		
G1 Copy of licence kept at the premises or plant		
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	5.3
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	5.3
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	5.3
G2 Contact number for incidents and responsible employees		
G2.1	<p>The licensee must operate 24-hour telephone contact lines for the purpose of enabling the EPA to directly contact one or more representatives of the licensee who can:</p> <ul style="list-style-type: none"> a) respond at all times to incidents relating to the premises; and b) contact the licensee's senior employees or agents authorised at all times to: <ul style="list-style-type: none"> i) speak on behalf of the licensee; and ii) provide any information or document required under this licence. 	2.1
G2.2	The licensee is to inform the EPA in writing of the appointment of any subsequent contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change	2.1
G3 Signage		



EPL No.	Condition	Where addressed in the CEMP or subplan
G3.1	The location of EPA point numbers(s) 1 to 10 must be clearly marked by signs that indicate the point identification number used in this license and be located as close as practical to the point.	2.1



3.Roles and Responsibilities

3.1 On-site Structure and Responsibility

Table 3-1: Allocation and responsibility

Environmental Responsibilities		
Title	Name and Contact No.	Responsibility
Managing Director	Carlos Gonçalves 0418 681 736	<ul style="list-style-type: none"> • Ensure adequate equipment and resources are available to the project team to allow the full implementation of this CEMP • Ensure all workers are informed of their responsibilities regarding the implementation of this CEMP • Maintain accreditations, training and competencies for the company and its employees relating to environmental requirements • Set realistic and measurable goals regarding environmental outcomes
Gongues Employees Subcontractors Suppliers	All personnel	<ul style="list-style-type: none"> • Carry out work in accordance with the requirements of this CEMP EIS, project approvals and EPL, in conjunction with the latest drawings issued for construction. • Exercise due care, skill and foresight when carrying out tasks. • Ensure all environmental incidents are immediately reported to Gongues Site Supervisor • Comply with all permits, approvals and subsequent plans associated with these works. • Be able to locate a copy of this CEMP and EIS & EPL on site at all times. • Immediately inform the Superintendent if it is not practical to comply with a requirement or if you believe the specified controls are inadequate. • Implement corrective actions which have been approved by the appointed Gongues Site Supervisor.
Project Superintendent:	Geoff Gardner 0432 565 123	<ul style="list-style-type: none"> • Ensure all personnel are aware that works must be carried out in accordance with this CEM, EIS, project approvals and EPL. • Ensure all reports and records are prepared as detailed in this CEMP. • Ensure all relevant permits are obtained prior to commencement of works or with regard to specified “hold points”. • Ensure compliance with all permit requirements.



Environmental Responsibilities		
Title	Name and Contact No.	Responsibility
		<ul style="list-style-type: none"> • Ensure consultation is undertaken in accordance with this CEMP, including suitable negotiations with landowners are made where necessary. • Issue non-conformances to Contractor. • Ensure regular audits are undertaken to ensure environmental compliance with CEMP, environmental management plans. EIS, project approvals and EPL. • Incident investigation and reporting. • Monitor conformance with CEM, EIS, project approvals and EPL.
Gongues Environmental Manager	Lawrence De Sylva 0448 104 952	<ul style="list-style-type: none"> • Be available during construction and present on-site during any critical construction activities. • Provide advice on contamination, soil management and vegetation management and protection and provide environmental support as detailed by this CEMP EIS, project approvals and EPL. • Document an induction program (Site Induction) for all key personnel involved with construction activities. • Carry out environmental audits during construction work to verify compliance with this CEMP and report findings to the Project Manager
Gongues Contracts Manager	Lachlan Bryan 0419 630 292	<ul style="list-style-type: none"> • Implement this CEMP to ensure compliance with: <ul style="list-style-type: none"> • Regulatory requirements; • Client requirements; • Audit and non-compliance management; and • Contracts. • Conduct environmental monitoring as required. • Ensure that all staff, consultants and subcontractors are suitably skilled and have a clear understanding of the environmental requirements and consequences of their work. • .Is the authorised contact person with Client & OEH • Responsible for reporting all incidents and complaints to the Superintendent as soon as practicable • Assist in community liaison. • Instructing project personnel on how to comply with the Company's environmental policy and procedures • Arranging periodic monitoring and inspection by suitably trained personnel • Monthly evaluation of how environmental controls are performing



Environmental Responsibilities		
Title	Name and Contact No.	Responsibility
		<ul style="list-style-type: none"> Identify operations and activities which are associated with aspects of the policy, objectives and targets Initiating remedial measures when environmental deficiencies are observed or in response to environmental complaints Restriction of construction activities affected by any environmental deficiencies until remedial has been taken Identifying training needs Keeping environmental records Periodically evaluate compliance with relevant environmental legislation and forward information to the client
Gongues Site Supervisor	Herculano Gonçalves 0407 245 672	<ul style="list-style-type: none"> Ensure all environmental incidents are immediately reported to the Superintendent
Site Environmental Manager (EMR)	Steve Cooper 0412 545 569	<ul style="list-style-type: none"> Adequately communicate environmental issues to all workers as part of the Site Induction The installation of environmental control measures Weekly environmental inspections Inspection of ESCP controls following rainfall event Maintain ESCP controls as required Taking prompt action if any environmental emergency occurs.

3.2 Records of Environmental Activities

Legible records of all environmental control issues and activities required under this management plan are to be maintained

Gongues are committed to environmental management; Gongues document control and archive all environmental records from all projects. Gongues keep all records for at least 5 years from date of record, to satisfy authorised government regulatory authorities. These records are available for client access when requested.

The environmental records for the Project include:

- F001 Daily Hazard Assessment Check forms (toolbox talks)
- F003 Hazard Incident Report
- F004 Incident NCR and Hazard Register (include complaint records)
- F005 Complaints Notification and Investigation Form
- F144 Compliance Checklist
- F149 Statement of Induction
- F409 Weekly Environmental Inspection
- F412 Waste Reduction and Procurement (WRAP)



- This CEMP and associated appendices

3.3 Environmental Training and Communications

Prior to commencement of the Project all subcontractors shall be supplied with the Project Risk Assessment, which shall detail the major safety and environmental risks on site.

All Gongues personnel, subcontractors and visitors to site shall undergo a site induction on site prior to being allowed to access the work areas on site. Delivery drivers shall be escorted by Gongues personnel if it is not practical to complete a site induction. The site induction shall detail the responsibilities for all personnel on site, as well as details of sensitive areas in the work areas, as detailed in the EIS, the Googong Foreshore Interface Management Strategy, the approval and EPL requirements, which are summarised in this CEMP and its appendices.

Gongues personnel shall also be inducted to Gongues Safe Operation Procedures (SOPs) which cover both safety and environmental expectations for Gongues employees. Workers undertaking High risk work tasks shall also receive additional training, such as Safe Work Method Statements (SWMS), Verifications of Competency and High Risk Work Licences as required.

Additionally all personnel shall attend the daily toolbox talk (HAC) prior to the commencement of works. Any workers not able to attend this meeting shall read and sign onto the HAC which will detail major safety and environmental concerns relating to the works on that day. Workers are encouraged to raise safety and environmental concerns during these daily toolbox talks.

All training shall be conducted and recorded in accordance with Gongues **IMS P04 Training and Competency Procedure**. The communication and consultation procedures detailed above are conducted in accordance with **IMS P07 Communication and Consultation Procedure**.



4. Environmental Safeguards and Controls

4.1 Introduction

Project specific environmental controls must be implemented for the construction phase of the project to minimise the risk of potential environmental impacts. Such impacts from activities could include:

- Air quality from dust emissions & exhaust fumes
- Greenhouse gases
- Pollution of surrounding environments from sedimentation
- Water quality from spills etc.
- Noise and vibration annoyances for residents
- Flora & fauna damage
- Heritage destruction
- Visual amenity
- Bushfires
- Waste
- Sustainability
- Social and economic issues

The risk assessment of the above potential impacts is presented in Section 4.3. All personnel associated with the task have been made aware of the environmental risks and the control measures that must be implemented. Control measures are documented in the ESCP, SWMS and this CEMP.



4.2 Environmental Risk Assessment

Significance Rating Matrix			
Likelihood	Consequence		
	Low	Medium	High
Will Occur	M	H	H
Would not be surprised if it occurred	L/M	M	H
Not likely to occur	L	L/M	M
Not applicable for this project	N/A	N/A	N/A

POTENTIAL FOR ENVIRONMENTAL HARM

H = Serious environmental harm - Causes actual or potential harm to the environment which is widespread, or of a high impact or is irreversible.

M = Moderate environmental harm - Causes actual or potential harm to the environment which is manageable or reversible.

L/M = Minor environmental harm - Likely interference with an environmental value, (e.g., noise, dust, odour) such that environmental nuisance may be caused.

L = No environmental harm - Does not cause actual environmental harm or damage to the environment.

* Risk comes before the controls are applied.

NB: Only construction risk not project risk.



Construction Activity	Potential Impact on Environmental Issue													
	Air Quality	Geology & Soil	Water Quality & Hydrology	Noise & Vibration	Flora & Fauna	Aboriginal Heritage	Non-Aboriginal Heritage	Contamination	Visual + Aesthetics	Bushfire	Waste	Greenhouse & Sustainability	Traffic & Access	Social Impacts
Site Establishment & Mobilisation	H	H	H	M	M	L	L	M	L	L	M	M	L	L
Clearing, Stripping & Stockpiling	H	H	H	M	M	L	L	M	L	L	M	M	L	L
Earthworks	H	H	H	M	M	L	L	M	L	L	M	M	L	L
Construction of Concrete Structures	H	H	H	M	M	L	L	M	L	L	M	M	L	L
Pipework Installation	H	H	H	M	M	L	L	M	L	L	M	M	L	L
Mechanical Installation	M	M	M	M	M	L	L	M	L	L	M	M	L	L
Electrical Works	L	L	L	L	M	L	L	L	L	L	M	M	L	L
Landscaping	H	H	M	M	M	L	L	M	L	L	M	M	L	L



Construction Activity	Potential Impact on Environmental Issue													
	Air Quality	Geology & Soil	Water Quality & Hydrology	Noise & Vibration	Flora & Fauna	Aboriginal Heritage	Non-Aboriginal Heritage	Contamination	Visual + Aesthetics	Bushfire	Waste	Greenhouse & Sustainability	Traffic & Access	Social Impacts
Commissioning	L	L	M	M	M	L	L	L	L	L	M	M	L	L
Overall Impact Rating	H	H	H	M	M	L	L	M	L	L	M	M	L	L

4.3 Environmental Aspects and Actions

- Identify the environmental issues and impacts of the project (EIS, Environmental Risk Assessment Table (above));
- Identify the controls required in accordance with the Googong Foreshores Interface Management Strategy;
- Identify the environmental legislative and other requirements of the project (EIS and Section 1 of this CEMP);
- Identify any environmental obligations from relevant Project documentation including those specific mitigation measures identified in the EIS. Those mitigation measures are mandatory and MUST be included in this CEMP and referenced in the environmental safeguard action table; and
- Identify any additional environmental control methods that will be used to either prevent or minimise the identified environmental impacts in the pre-construction, construction and post construction phases.
- Assign an appropriate nominated officer(s), who is responsible for enforcing that control/action.
- Include a reference to the documentation to support and monitor the implementation of the control measures.

Environmental Aspects assessed as per Environmental Risk Assessment described in 4.2. Controls to be implemented as follows:



4.3.1 Issue: Air Quality

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> • Before the commencement of works, prepare an Erosion and Sediment Control Plan to control windborne erosion and dust • Exhausts from plant/equipment would be monitored to ensure they are kept to EPA standard (e.g. no more than 10 seconds of visible smoke coming from the plant equipment). 	Site Supervisor	Ongoing control monitoring Weekly Site Inspection Checklist Daily Plant inspection – Pre-start
DURING CONSTRUCTION		
<ul style="list-style-type: none"> • Speed limits would be reduced during high dust/windy conditions. • Clearing of vegetation and topsoil would be limited to the designated footprint required. • Disturbed areas would be progressively reinstated with suitable stabilising agents or revegetation. • Water trucks would be used to reduce dust in dry, windy conditions. • Working practices would be modified during periods of high winds by limiting the use of some machinery and by reducing travel speeds. • Rock excavation would be conducted at appropriate times, with consideration of site conditions and sensitive receivers. • The burning of material on site would be prohibited, except under the instruction of NSW Rural Fire Services. • Vehicles would be well maintained to ensure emissions are kept to the minimum practicable. • Loads on trucks transporting material to and from the construction site would be appropriately covered and tailgates of road transport trucks would be securely fixed prior to loading and immediately after unloading • Stockpiles would be covered or watered to suppress dust when not in use 	All Personnel	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) Sub-contractor approval Induction Training
POST CONSTRUCTION		
<ul style="list-style-type: none"> • Ensure all disturbed soil surfaces have been adequately rehabilitated. 	All Personnel	Weekly Inspection



4.3.2 Issue: Geology and Soil

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> An Soil & Water Management Plan (SWMP) incorporating would be prepared in accordance with the <i>Blue Book Vol. 1: Managing Urban Stormwater: Soils and Construction</i> prior to construction commencing. 	Site Supervisor	SWMP (Appendix C) CEMP
<ul style="list-style-type: none"> Minimise the number of vehicle entry and exit points to the work site. Vehicle movement to be restricted to sealed roads as much as possible 	Site Supervisor	TPMP (Appendix J)
DURING CONSTRUCTION		
<ul style="list-style-type: none"> Measures to ensure limited tracking of dirt off site will be implemented at access points. Where required the controls may include exit rumble grids at all points of egress onto public (sealed) roads, and/or stabilisation of site roads/tracks with aggregate where appropriate. Stockpiles will be checked for stability weekly and after heavy rainfall. Topsoil will be conserved, where reasonable and feasible, for use in site rehabilitation/revegetation. Re-seeding will be undertaken, and geotextile materials used as required. Trenches will be backfilled and compacted in layers. Access to the site will be managed (including site restrictions) to assist with site recovery. There will be progressive revegetation, stabilisation and restoration works of earthworks areas in accordance with the Blue Book. Loads transported to and from the site would be covered to prevent spillage <p>Soil contamination</p> <ul style="list-style-type: none"> Chemical transport, storage, handling and disposal procedures will be implemented in accordance with the requirements of dangerous goods and environmental legislation, and industry standards. Stop all work in the area if potential or actual contamination is found during earthworks, 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). 	All Personnel	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) Sub-contractor approval Induction Training
POST CONSTRUCTION		



Actions	Responsible for Action	Compliance Record
<ul style="list-style-type: none"> • All disturbed areas would be rehabilitated or revegetated as soon as practical after excavation or completion of work. • Temporary erosion and sediment control structures would be removed only when exposed surfaces are stabilised. • Landscape maintenance would be undertaken to ensure the success of plantings and seedlings. • All restoration works shall be completed in accordance with Queanbeyan City Council's Development Construction Specification (June 2011) 	All Personnel	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) Sub-contractor approval Induction Training



4.3.3 Issue: Water Quality and Hydrology

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> A secure, bunded area for the storage of fuel, oil and other chemicals would be provided within the site compound. This area would be imperviously bunded with a capacity to contain not less than 110% of the volume of the largest container. A suitable spill kit would be provided onsite for emergency spills of fuel, oil or other chemicals. An emergency spill procedure would be prepared and displayed in a prominent position adjacent to the fuel/chemical storage area. An ESCP shall be implemented as per the SWMP 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) Sub-contractor approval Induction Training
DURING CONSTRUCTION		
Erosion and sediment mobilisation <ul style="list-style-type: none"> Dust suppression Stockpiles – would be checked for stability weekly and after heavy rainfall. Permanent stormwater management systems would be installed as early as possible in the construction program. Diversion bunds would be constructed to divert clean water flows around the construction site where practical. Erosion and sediment control protection measures would be installed prior to the commencement of land disturbance activities and inspected and maintained regularly. Erosion and sedimentation controls would be inspected prior to and after each rain period and during periods of prolonged rainfall. Any defects would be rectified immediately. Monitoring of weather forecasts would occur throughout the construction phase so that potential rainfall events are identified prior to their occurrence with appropriate management instated. 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) Sub-contractor approval Induction Training Daily Pre-starts



Actions	Responsible for Action	Compliance Record
<ul style="list-style-type: none"> • Topsoil would be stockpiled away from drainage lines to protect them from erosion by surface water runoff. • Vehicle wash down would take place in designated areas within the WRP site and away from drainage lines. The wash downs would be designed to contain wash down water in a sump or tank. Water from vehicle wash down areas would be treated to remove seeds, oils and other contaminants before reuse for dust suppression or other on-site use. • Earthworks would not be carried out during heavy rainfall. • Stop all work in the area if potential or actual contamination is found during earthworks, 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). The location and management of any identified contaminated land would be managed in accordance with relevant codes. <p>Contaminant mobilisation</p> <ul style="list-style-type: none"> • Fuel storage areas would be designed in accordance with Australian Standard (AS) 1940 (The storage and handling of flammable and combustible liquids). This includes provision for secondary containment. • Construction chemical storage areas would be designed and operated in accordance with AS 3780 (The storage and handling of corrosive substances). • Refueling to occur within contained, hardstand areas in accordance with AS 1940 wherever possible. Where this is not possible, refuelling activities would be located away from drainage lines and be closely supervised, with a spill kit available that is capable of containing spills of up to 100 litres. They would also be bunded to contain any large spills that may occur as a result of machinery or tank failure. • Storage and refueling areas would be located away from areas subject to stormwater inundation. • Storage and refuelling areas would be designed to minimise the ingress of clean stormwater either from overland flow or incidental rainfall. • Bunds and sumps would be emptied after each rainfall event. Water and oily water from fuel and oil storage areas removed from bunds and sumps would be treated through an oil water separator and then reused for dust suppression or other on-site use. Water and other 		<p>Machines and vehicles</p> <p>Checklists</p> <p>Weekly Inspection</p>



Actions	Responsible for Action	Compliance Record
<p>contaminants from other chemical storage areas would be removed from site and disposed at an off-site licensed facility.</p> <ul style="list-style-type: none"> • Items are not to be stored or placed within bunds or sumps. • Spill response procedures and equipment for containment and recovery would be available on site. • Contaminants and major spills would be collected by a licensed waste collection and transport contractor for disposal at an off-site licensed facility. • Spill clean-up kits would be located in appropriate locations, based on the risk of a spill occurring and potential volume of material that might be spilled at the particular location. • Workforce training would be conducted on the transport, storage, handling and disposal procedures relating to chemicals. Workers involved in storage, handling and management of fuels and chemicals would also receive training in spill prevention and control. • Instructions on spill containment and clean-up would be available at refuelling locations and in vehicles where there is a moderate risk associated with spill events. • Spills are to be contained and cleaned up immediately to prevent the mobilisation of pollutants in drainage lines or watercourses. • Wastewater from vehicle wash down areas would be directed through oil and grease separators and effluent utilised for dust suppression or other use. • Should activities disturb unidentified contaminated land, suitably qualified practitioners would be engaged to manage identified contaminated land in accordance with relevant statutory requirements • Limiting the application of fertilisers for vegetation establishment at the WRP. • Treatment of any surface water pumped out of excavations prior to discharge. 		
POST CONSTRUCTION		
<ul style="list-style-type: none"> • All temporary erosion and sediment control structures would be removed from the worksite when it is adequately stabilised 		



4.3.4 Issue: Noise and Vibration

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION AND DURING CONSTRUCTION		
<ul style="list-style-type: none"> • A Noise and Vibration Management Plan (NVMP) will be developed • Mobile plant such as excavators and other diesel operated machinery would be fitted with mufflers and other silencing equipment if works are planned out of standard operating hours, as far as practical. • Low noise machinery would be selected where practicable (e.g. electric instead of internal combustion, vibratory piling instead of impact). • The work site would be arranged to take advantage of natural barriers (e.g. hills, trees) and structures or temporary screening (e.g. fences, work trucks, stockpiles) to break the line of sight between working equipment and sensitive receivers. This includes relocating hoarding areas and not using skip bins after 5pm during night works. • Notify local residents potentially affected by the construction works and include details of extent of works and likely impacts. This notification shall be completed by the Superintendent as required • Works would generally be carried out during normal work hours (i.e. 7.00 am to 6.00 pm Monday to Friday; 8.00 am to 1.00 pm Saturdays). Any works outside these hours may be undertaken if approved by the EPA and any other relevant authorities. Out-of-hours construction works would satisfy criteria in Interim Construction Noise Guidelines (2009). 	<p>All Personnel Site Supervisor</p>	<p>NVMP – (Appendix K)</p>
DURING CONSTRUCTION		
<ul style="list-style-type: none"> • Works will be scheduled to consider the local conditions and community needs (e.g. Allow respite periods, keep to standard operating hours). • If possible, high noise producing equipment would be sited furthest away from noise-sensitive areas. • The equipment would be oriented so that noise is directed away from noise-sensitive areas. • Plant and equipment would be operated and maintained in an efficient and proper manner. • Dropping materials from a height, either into or out of trucks, trays or bins would be avoided. • Vehicle speeds would be restricted on, or near, the work site. • Intermittently used machinery would be shut down or throttled down when not in operation. • Portable screening would be installed around high impact equipment/activities, where required. Screening would be positioned so noise is directed into the work site. 	<p>All Personnel Site Supervisor</p>	<p>Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) Complaints Register</p>



Actions	Responsible for Action	Compliance Record
<ul style="list-style-type: none"> • Rowdy behaviour would be avoided on work sites (e.g. shouting, radios, and inappropriate vehicle use). • Any works outside standard hours require written approval from the principal. • If works are planned out of standard operating hours, the noisiest works would be scheduled so they are completed before 11pm. • Works would be scheduled to provide respite periods throughout the duration of the project for noisy activities. A minimum respite period of one hour would be scheduled after every three hours of continuous noisy activity such as rock hammering or pile driving. • Works may be undertaken outside of standard operating hours if the following criteria are satisfied <ul style="list-style-type: none"> - The works cannot be undertaken during standard operating hours (e.g. RMS and other public utility requirements); and - Any potentially affected residents are given prior notice of work times and reasons. - Written approval from the Principal. • The simultaneous use of noisy plant would be minimised in close proximity to sensitive receivers. • Noise monitoring at selected receivers would be considered to investigate complaints regarding noise impacts. • Contractors and workforce would be informed of noise sensitive neighbours. • Noisy activities would be conducted in as short a time period as possible with minimum delays. • Appropriate truck lay over areas would be designated for deliveries. 		
POST CONSTRUCTION		
<ul style="list-style-type: none"> • Any damage to buildings or structures attributable to vibration from construction activities would be rectified within a reasonable period, at no cost to the property owners. 	Site Supervisor	



4.3.5 Issue: Flora and Fauna

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> Barriers would be established to protect any trees to be retained, particularly where they are situated close to the work area or access points. Prior to stripping topsoil (top 100mm), its suitability for re-use would be identified. Weed infested topsoil would be separated for disposal and would not be re-used in landscaping efforts. 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC)
DURING CONSTRUCTION		
<p>Weeds</p> <ul style="list-style-type: none"> Weed control measures in line with the Noxious Weed (Control Order) 2014. Plant and vehicle wash down procedures would be established to remove dirt and weed seeds following work in weed infested areas. Where practicable, works would be scheduled to move from areas that are relatively weed free to more heavily weed infested areas to prevent weed dispersal. Weeds and clippings would be disposed to an appropriately licensed facility. <p>Flora</p> <ul style="list-style-type: none"> Vegetation on road verge would be retained to the greatest extent practicable; however some trees or tree limbs may need to be removed to enable the works to proceed in a safe manner and to limit the potential for damage. on the northern boundary of the WRP and Tree Protection Zones (TPZs) would be established in line with AS 4970-2009 Protection of Trees on Development Sites and should include exclusion fencing of TPZs. <p>Fauna</p>	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC)



Actions	Responsible for Action	Compliance Record
<ul style="list-style-type: none"> In the event that any sick, injured or orphaned native animals are located during construction, WIRES would be contacted to assist in capture, handling and welfare of the animal (1300 094 737). An escape route for fauna would be provided if trenches/pits will be open for extended periods (i.e. log or stick to use to climb out). No domestic animals, particularly dogs and cats, would be permitted on the construction site. 		
POST CONSTRUCTION		
<ul style="list-style-type: none"> Any weed waste material would be removed and the site would be maintained for a reasonable period post construction to prevent and/ or suppress any weed growth. Areas cleared of ground cover for construction works will be restored to previous condition to stabilise soils and approve visual amenity. Any additional landscaping undertaken during the restoration of the site would use native species. All restoration works shall be completed in accordance with Queanbeyan City Council's Development Construction Specification (June 2011) 	Site Supervisor	



4.3.6 Issue: Aboriginal Heritage

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> No Aboriginal Heritage identified 	N/A	N/A
DURING CONSTRUCTION		
<ul style="list-style-type: none"> If a suspected Aboriginal artefact or evidence of Aboriginal occupation is discovered while working on a site, work would stop immediately within that location, access would be restricted and the Supervisor and Superintendent would be contacted to ensure any additional OEH requirements are incorporated. All workers on site would be informed that the removal or disturbance of any Aboriginal artefact is illegal. 	Site supervisor to monitor Personnel to adhere to exclusion areas	Inspection reports Induction

4.3.7 Issue: Non-Aboriginal Heritage

Actions	Responsible for Action	Compliance Record
DURING CONSTRUCTION		
<ul style="list-style-type: none"> No Non-Aboriginal Heritage identified 	N/A	N/A
DURING CONSTRUCTION		
<ul style="list-style-type: none"> If a suspected Non-Aboriginal heritage item is discovered while working on a site, work would stop immediately within that location, access would be restricted and the Supervisor and Superintendent would be contacted to ensure the Heritage Branch of the Department of Planning is contacted. All workers on site would be informed that removal or disturbance of any Non-Aboriginal heritage item is illegal. 	Site supervisor to monitor Personnel to adhere to exclusion areas	Inspection reports Induction



4.3.8 Issue: Contamination

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> • Appropriate areas for plant maintenance and repairs; fuel and chemical storage; stockpiles and storage would be designated that would minimise any impact upon the environment. • A secure, lockable and floored area would be provided for the storage of fuel, oil or chemicals. This area would be imperviously bunded with a capacity to contain not less than 110% of the volume of the largest container. • Emergency procedures would be displayed in a prominent position adjacent to the fuel/chemical storage area within the site working area. 	Site Supervisor	EIS Appendix C and Appendix E
DURING CONSTRUCTION		
<ul style="list-style-type: none"> • Pollution incidents to be managed in accordance with Emergency Response Plan. <p>Oil, Fuel, and Chemical Handling, Storage and Transport</p> <ul style="list-style-type: none"> • All plant and equipment used in the handling and transport of oil, fuels or chemicals would be regularly checked for serviceability, all hoses checked for deterioration, and hose ends and fittings checked for distortion. • Drums would be covered on bunded pallets if stored outside. • Where practicable, refueling would be undertaken offsite at service stations. • Oil hoses and pumps would not be left unattended whilst in use. • Spills and leaks would be promptly and appropriately cleaned up, relevant personnel would be notified and contaminated materials disposed of appropriately. • Emergency spill kits would be maintained and would be readily available whenever oils, fuels or chemicals are handled, transported, stored, processed or tested. • Oil and other chemicals would be stored in a secured and contained area. • Liquid and dry chemicals (including fuels) would be stored and handled in accordance with the SDS data and directives. • Major spills that can have an impact on the surrounding environment would be promptly reported to the appropriate Emergency Authorities in accordance with an incident management plan or emergency response procedure. The spill would be contained, collected and disposed of in accordance with the Authorities directives and applicable regulatory requirements. 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC)



Actions	Responsible for Action	Compliance Record
<ul style="list-style-type: none">All personnel involved would be familiarised with procedures for the management of fuel and chemical spills and the location of spill kits. <p>Unexpected Contamination</p> <ul style="list-style-type: none">If any unexpected contaminated material (for example leachate, waste oil, drums of chemicals or asbestos) is discovered during excavation, all work would cease at the site until the nature and extent of the contamination has been established and an appropriate management and disposal strategy has been developed.		



4.3.9 Issue: Visual and Aesthetics

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> The mitigation measures identified through the design stage of the project would be implemented. 	All Personnel Site Supervisor	Daily Site reviews (through HAC)
DURING CONSTRUCTION		
<ul style="list-style-type: none"> The site to be kept tidy and well maintained, including removal of all rubbish at regular intervals. There should be no storage of materials beyond the construction boundaries. Temporary hoardings, barriers, traffic management and signage would be removed when no longer required. Location of construction plant, machinery and vehicle parking areas away from public or sensitive viewing areas where practicable. Location any lighting needed for construction night-time activities away from public or sensitive viewing areas. 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC)
POST CONSTRUCTION		
<ul style="list-style-type: none"> Landscaping of the site would be completed as soon as possible during and following construction. All disturbed area associated with the construction works would be reinstated so that they are suitable for their intended use. 		



4.3.10 Issue: Bushfire

As per the Environmental Risk Assessment the risk of bushfire is Low

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> Emergency procedures would be displayed in a prominent position in the site working area. 	Site Supervisor	Weekly Inspection HAC checklists
DURING CONSTRUCTION		
<ul style="list-style-type: none"> Fire extinguisher equipment, or similar equipment adequate for the task, would be kept immediately at hand. Personnel would be instructed that vehicles potentially cause fires in grassland and that they should not drive in long grass during hot weather or total fire ban days. No smoking would be allowed in close proximity to vegetation within Bushfire Prone Land surrounding the construction zones. Fire hazard and control awareness sessions would be conducted for all onsite personnel, particularly during summer. The location of water supply points and fire fighting procedures and provisions would be identified. No cutting, welding, grinding or other activities likely to generate fires would be undertaken on "total fire ban" days outside of enclosed spaces. 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) Hot Work Permit
POST CONSTRUCTION		
<ul style="list-style-type: none"> Cleared vegetation and other flammable waste materials would not be left on site. 		



4.3.11 Issue: Waste

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> A Waste Management Plan would be prepared that includes the segregation, Classification, collection, reuse and recycling of construction waste products, as appropriate and in accordance with the <i>Protection of Environment Operations Act, 1997 and Regulations; EPA Waste Classification Guidelines 2014</i>; and the resource management hierarchy principles embodied in the <i>Waste Avoidance and Resource Recovery Act, 2001</i>. The types and quantities of waste which will be generated would be determined. Arrangement with licensed waste facilities will be made regarding disposal requirements. Waste management practices for the proposal would follow the resource management hierarchy principles embodied in the <i>Waste Avoidance and Resource Recovery Act, 2001</i>. 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) CEMP Appendix A
DURING CONSTRUCTION		
Waste <ul style="list-style-type: none"> Daily inspections would be conducted to ensure the worksite is left in a clean and tidy state. Bin(s) with heavy lids would be provided within the site working compound for litter. Waste and surplus construction materials (i.e. bitumen, asphalt or concrete) would not be disposed of on the site or on any land around the site. Bin(s) would not be overfilled or overloaded. Bunds for containers of liquid waste would be used and spill kits would be available near the liquid waste storage area. Waste storage would be positioned away from drains and waterways, and hazards such as incompatible substances. Waste storage containers would be in good condition and would be positioned where they are unlikely to be damaged. All wastes would be secured in suitable well maintained containers with labels to maximise the segregation of the variable waste streams. All containers would be safely secured on the transport vehicle when transporting waste. Loads would be covered to prevent spillage, loss of waste and the emission of odours. No burning of waste material, felled trees or other material would be carried out. 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) CEMP Appendix A



Actions	Responsible for Action	Compliance Record
<ul style="list-style-type: none"> • All wastes generated by the project would be beneficially reused, recycled or directed to a licensed waste facility lawfully permitted to accept the materials. • All waste transportation and disposal would occur in accordance with the <i>Protection of Environment Operations Act, 1997 and Regulations</i>, and the <i>OEH Waste Classification Guidelines 2008</i>. • Concrete washout would only occur within designated areas on the site or at the suppliers designated offsite location. • Used oil spill cleanup materials would be disposed of as General Solid Waste if there is no free oil and the oil does not contain PCBs. • Waste tracking documentation shall be available for review by the principal. <p>Resource Use</p> <ul style="list-style-type: none"> • Over packaged items would be avoided and where possible, bought in bulk. • Packaging and products which can be reused or recycled would be selected. • Products with recycled content would be purchased where practicable. • Goods and materials with low energy and water usage would be purchased where practicable. • Only the required amount and size of material equipment would be ordered and purchased. • A recycling contractor would be engaged to remove recoverable materials from the site. • Over-supplied quantities or used materials would be returned to the supplier or used on other sites. • Separate bins would be provided for recycling such as paper, cardboard, glass, plastics, concrete and metals, and staff would be instructed on recycling procedures. • Cleared vegetation (mulched) would be retained and used for re-vegetation and landscaping of the site where appropriate. Where mulching is not appropriate (due to asset protection zones) or where there is an excess of material, this would be reused at another location or disposed of to a licensed waste facility. • Water would be reused where possible on-site for dust suppression, irrigation, etc. 		
POST CONSTRUCTION		
<ul style="list-style-type: none"> • A WRAP report would be completed at the completion of the project. 	All Personnel	WRAP



Actions	Responsible for Action	Compliance Record
<ul style="list-style-type: none"> All waste would be removed from the worksite upon completion of the project. The worksite would be left in a clean and tidy condition upon completion of the project. 	Site Supervisor	

4.3.12 Issue: Greenhouse and Sustainability

Actions	Responsible for Action	Compliance Record
PRIOR AND DURING CONSTRUCTION		
<ul style="list-style-type: none"> Procurement strategies would be implemented for energy efficient plant and equipment. 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC)
DURING CONSTRUCTION		
<ul style="list-style-type: none"> All equipment shall be maintained to ensure energy use and emissions are minimized Recycled water would be utilised for dust control and earthworks where practicable. Top soil, rock and other spoil excavated from site would be stockpiled for reuse for Earthworks, roadworks and landscaping, as appropriate. The re-use of on-site (excavated) materials where materials are suitable and their re-use feasible. The use of low greenhouse intensity materials rather than conventional materials where appropriate. The use of locally sourced materials where feasible. 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC)
POST CONSTRUCTION		
<ul style="list-style-type: none"> Any residual raw materials would be returned and reused at the end of the project 	All Personnel	Weekly Inspection



Actions	Responsible for Action	Compliance Record
	Site Supervisor	HAC checklists SWMS Daily Site reviews (through HAC)



4.3.13 Issue: Traffic and Access

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> Residents and businesses would be consulted and advised of any access changes to properties, and any concerns would be addressed. The road authority and key stakeholders would be consulted prior to the implementation of changed traffic conditions, and roadwork information will be disseminated to the community so they can plan their journeys. A Traffic and Pedestrian Management Plan (TPMP) would be prepared prior to construction to outline all access routes to, from and within the construction zones, traffic control methods to be utilised and methods to minimise impacts on the operation of the existing WRP, pedestrians and the users of the local road network. This plan would be prepared in accordance with the relevant standards and submitted to the relevant road authority for consultation and approval. Fencing will be erected to delineate the work areas from the surrounding public spaces and prevent unauthorized access Lighting, fencing, traffic control advanced warning signs must be provided for the protection of works and for the safety and convenience of the public, in accordance with Council's Googong Design and Construction Specifications (Version 1, dated June 2011). 	Superintendent	TPMP (Appendix J)
DURING CONSTRUCTION		
<ul style="list-style-type: none"> All relevant GTPL and QPRC employees, consultants and contractors would be inducted into the site and would receive appropriate training to fulfil their individual and environmental responsibilities, including requirements and responsibilities under the traffic and access management plan. Where feasible, construction deliveries would be scheduled outside of peak periods, in particular peak residential access times. Access to residential properties would be maintained at all times. Construction staff and delivery vehicles would not park in public areas where supply is limited. Any permits required for oversize vehicles to transport plant or equipment are to be obtained from RMS 	All Personnel Site Supervisor	Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC)



Actions	Responsible for Action	Compliance Record
POST CONSTRUCTION		
<ul style="list-style-type: none">Normal road conditions would be restored to that which existed prior to the commencement of the construction.		



4.3.14 Issue: Social Impacts

Actions	Responsible for Action	Compliance Record
PRIOR TO CONSTRUCTION		
<ul style="list-style-type: none"> An induction procedure would be prepared for all personnel (including subcontractors) attending the site. The induction would address all environmental issues relevant to the activities that could be undertaken by the personnel. Personnel would not be allowed to enter the site until the induction has been completed. A record would be kept of all inductions. A complaint register would be prepared and kept on site at all times. This register would keep a record of any concerns raised by the community and/or public authorities and follow up actions would be taken to address these concerns. The local community would be notified of the working hours to be adhered to; level and duration of noise to expect; any potentially affected properties or infrastructure; and proposed changes in access. Existing services would be identified using DBYD plans as well as onsite service location and as-built drawings as applicable. These maps shall be available on site in hard copy form, and logged into survey equipment where possible for accurate location on site 	<p>All Personnel Site Supervisor</p>	<p>Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) Complaints Register</p>
DURING CONSTRUCTION		
<ul style="list-style-type: none"> The local community would be informed of the progress of the project and any changes in access or disruptions which may affect the community. Appropriate signage would be displayed providing the contractors name and contact number / email address and a contact number to the community to lodge any concerns. Signs and barriers would be erected around work sites to eliminate the possibility of personnel injuries or placing the public at risk. The local community would be informed a minimum of 48 hours prior to any construction activities outside standard operating hours. Any complaints lodged shall be recorded using IMS F005 Complaint Notification and Investigation form in accordance with IMS P19 Complaints and Mediation Procedure. All complaints would be reported to the superintendent as soon as possible All work around existing services shall be completed in accordance with the relevant SWMS for the task being completed. Hand digging and/or non-destructive excavation methods shall be employed to lessen the potential for damage to underground infrastructure 	<p>All Personnel Site Supervisor</p>	<p>Weekly Inspection HAC checklists Toolbox talks SWMS Daily Site reviews (through HAC) Complaints Register</p>



Actions	Responsible for Action	Compliance Record
POST CONSTRUCTION		
<ul style="list-style-type: none">Any damage to public or private dwellings or infrastructure caused by site establishment or construction works would be returned to the condition identified in the dilapidation report, in accordance with Queanbeyan City Council's Development Construction Specification (June 2011)	Site Supervisor Contract Manager	Defects register



4.4 Control of Subcontractors

Sub-contractor environmental compliance				
Sub-contractor	Activity	Proposed Environmental Controls	Monitoring of Environmental Compliance by Principal Contractor	Verification & Sign Off by Principal Contractor *Reference Document if multiple signoffs
TBA				

Gongues Constructions Pty Ltd personnel and sub-contractors training and qualifications can be seen in the induction records (located onsite).



5. Management

5.1 Monitoring and Measurement

The company has established procedures to monitor and measure, on a regular basis, the key characteristics of its operations and activities, which may have a significant impact on the environment. These are identified on the Weekly Environmental Inspection Form F209

The Site Supervisor shall record information on performance, operational controls and conformance.

The Contract Manager shall periodically evaluate compliance with relevant environmental legislation.

5.2 Non-conformance and Corrective and Preventive Action

The company has established written procedures for responsibility and authority for handling and investigating non-conformance, taking action to mitigate impacts caused and for initiating corrective and preventive action.

Environmental non-conformances identified as part of Gongues inspection and auditing schedule shall be managed in accordance with **IMS P10 Non Conformance, Incident and Action Management Procedure**:

Corrective action must be taken promptly to prevent recurrence of non-conformances detected. Corrective action may be initiated by:

- Non-conformance Report
- Incident Report
- Audit Report
- Customer complaints
- Complaints from Employees

Non-conformance shall be recorded and such records shall be reviewed to determine the causes of the non-conformance. If a deficiency is identified in a technical procedure or system procedure which is likely to result in further non-conformances, the Contract Manager shall restrict project activities involving the deficient procedure until the corrective action has been implemented. He shall note such action.

The WHSQE Manager, in consultation with the Contract Manager (as required), shall promptly investigate the reported deficiency to establish the cause, then analyse relevant system procedures and technical procedures, and develop corrective action measures. Any corrective or preventive action shall be to a degree appropriate to the magnitude of the problem and the risks encountered. Corrective or preventive actions may be closed out on other organisation documents, with details of actions taken and timeframes to be adhered to.

5.2.1 Incident Management and Reporting

Incidents are to be managed in accordance with Gongues **IMS P11 Emergency Preparedness and Response Procedure**. Details of management for incidents, including environmental incidents, can be found in the Emergency Response Plan created for the project. This plan can be found in the Safety Folder on site.

An environmental incident is an unplanned event, which occurs on site and causes significant adverse environmental impacts. Environmental incidents are to be dealt with as soon as possible, in order to limit the damage the environment. The general emergency response to environmental incidents is:

1. Ensure site safety, move people from immediate area
2. Warn traffic of any hazard, which affects traffic (use lights, warning signs, etc.).



3. Take any practical steps to contain the hazard and prevent it from spreading. This may include notifying fire or emergency services.
4. Site supervisor is to inform Contracts Manager or WHSQE Manager of incident at the earliest possible opportunity
5. Contract Manager to notify client via phone and follow up with email as appropriate, and report to relevant authority (if applicable)
6. Decide with client and relevant authority how to clean up and remediate the site.

Workers are to report all environmental incidents to the Site Supervisor immediately.

Any incident that occurs must be reported and investigated. The procedure for internal reporting an incident is as follows:

1. Site supervisor is to inform Contracts Manager or WHSQE Manager of incident at the earliest possible opportunity
2. The Contract Manager or WHSQE Manager is to inform the Managing Director of the Incident. The Contract Manager shall report the incident to the client
3. **IMS F003 Hazard/ Incident Report** is to be completed. All incidents are to be recorded in the **F004 Incident NCR and Hazard Register**.
4. All incidents are to be investigated to ensure that steps are taken to prevent further incidents in the future. The information from the **F003 Hazard/Incident Report** will be used to facilitate this investigation.

Where the environmental incident has the possibility to cause harm or damage to the environment beyond the work area the incident is to be reported to the Environmental Protection Authority (EPA) via phone by the Contract or WHSQE Manager. Contact details are available in Appendix G. Local council and SafeWork NSW may also require notification.

5.2.2 Complaints Management

Complaints from the public are to be managed in accordance with **Gongues IMS P19 Complaints and Mediation Procedure**. The Superintendent shall be informed as soon as possible of any complaints made against the site. Contact details for the site shall be supplied on the Principal Contractor sign, posted at the entry for the site.

Should a person arrive on site to make a complaint they must be directed to the Site Supervisor. The Site Supervisor shall then record the details of the complainant and their complaint using the **F005 Complaint Notification and Investigation Form**. The required details include:

- Name of complainant
- Contact phone number
- Address (if relevant to complaint)
- Details of complaint

Telephone and verbal complaints must be recorded using the **F005 Complaint Notification and Investigation Form**.

Anonymous complaints should also be recorded and assessed and action taken where necessary.



In order to deal with complaints effectively and efficiently in order to resolve the problem, they will be dealt with in the following manner:

Once complaint details have been completed the Site Supervisor is to assess whether the complaint can be rectified immediately or needs to be referred to the Contract Manager. Issues that can be rectified immediately could include moving vehicles that are obstructing traffic, clean-up of dirt from roadways or clearing of materials from walkways.

If immediate rectification was possible, the details of the resolution must be recorded on the **F005 Complaint Notification and Investigation Form**.

Complaints which cannot be handled by the Site Supervisor should be referred to the Contracts Manager responsible for resolution. It is expected that within 2 working days persons reporting the complaint will be notified and Contract Manager will liaise with the complainant, in order to keep him/her informed of the progress of the action being taken.

Any follow up complaint to an original request/complaint will progress immediately to the Contract Manager.

Serious complaints involving inappropriate behaviour of staff (e.g. rudeness, discrimination or harassment) will be directed to the relevant Contract Manager. The initial acknowledgement by the responsible officer, detailing the likely action to be taken, will occur within 2 days.

Serious complaints involving personal injury, a breach of the law or property damage or complaints which involve the need for a detailed knowledge of Gongues operations and procedures, will be directed to the Managing Director in the first instance.

Details of all complaints must be provided to the WHSQ&E Manager so they can be recorded on the **F004 Incident NCR and Complaint Register**.

5.3 Records & Reporting

The company has established written procedures for the identification, maintenance and disposition of records.

Superintendent will be provided access to Gongues internal inspection reports as requested. Additionally, environmental records, such as waste documentation, etc., shall be provided to Superintendent as the WRAP report in accordance with the contract requirements. The progress of the project and the environmental outcomes will be reported to Superintendent as part of the regular progress meetings, conducted in accordance with contract requirements.

A copy of the Environmental Protection Licences (EPL) shall be retained on site at all times. The licence must be available for inspection by any employee or agent of the licensee who is working at the premises, and be provided to any authorised officer of the EPA who requests to see it.

All incidents and complaints shall be reported to the Superintendent by the Contract Manager as soon as practicable (same day as incident) with full details of incident reports, including suggested or completed rectification, submitted in writing within 48 hours of the incident occurring.

Should any report be required to the EPA, this shall be undertaken by GTPL following the receipt of the incident information from the superintendent.

5.4 Environmental Management System Audit

The Company has established procedures and programmes for periodic environmental management system audits to be carried out.



These audits are to determine whether the EMS:

- Conforms with planned arrangements for environmental management
- Has been properly implemented.

This information is to be used by the Managing Director and Project Manager for analysis on the status of the system.

The Managing Director shall ensure that audits have been carried out on a regular basis; the audits are to be available for Superintendent's review and records.

5.5 Management Review

The organisational management shall review the following:

- Environmental management
- Ensure continuing suitability adequacy and effectiveness

The review shall allow management to evaluate the collected information. This review shall be documented. This management review shall occur monthly as part of Gongues normal procedures. Additionally, the CEMP and its Appendices shall be reviewed and amended, if necessary, should the following occur:

- A major change in work layout
- A change in the scope of work that may affect the environmental outcomes
- A deficiency in the Management Plan is identified as part of an audit, site inspection or non-conformance/incident investigation
- As requested by Superintendent in relation to non-conformances or the like

The updated plan shall be available on site and all superseded copies marked as such.



6. Environmental Monitoring

6.1 Environmental Actions Monitoring

Gongues Constructions are committed to managing environmental issues. Management of this will be conducted through onsite monitoring using the F409 Weekly Environmental Inspection (Appendix B).

6.2 Auditing

Internal inspections will be carried out on a weekly / fortnightly basis with the records kept onsite and within company files, this form can be seen attached. Following legislative requirements these audits will be available to client for review and documentation.

6.3 Audits during Construction

Gongues constructions will be undertaking inspections / audits throughout the construction process to monitor and assess the effectiveness of systems to manage environmental risks associated with the project. Generally these inspections will be carried out by the Environmental Officer or the Site Supervisor on a weekly basis. These inspections are available to the Client for review at any time.

The Superintendent may require more frequent auditing if environmental performance evaluations indicate significant deficiencies with the environmental management of the site, this can be obtained through correspondence with Gongues Contract Manager. All detailed records are kept on site.

The site shall be subject to 6 monthly, external audits conducted by a consultant for GTPL. Gongues shall allow access for these audits and the WHSQE Manager or a suitable representative shall be available on site during these audits.

6.4 Environmental Management Representative

The EMR is authorised to:

- Be the primary contact point in relation to the environmental performance of the Construction activities.
- Consider and advise Gongues Constructions and Superintendent on matters specified in these Conditions and compliance with such.
- Implement and monitor the CEMP.
- Review the induction and training program for Construction personnel and monitor its implementation.
- Provide a written report to Gongues Constructions and Environmental Services on any non-compliance with the CEMP. Non-compliance must be managed as identified in the CEMP.
- Direct Gongues Constructions to stop work immediately if, in the opinion of the EMR, an unacceptable impact on the environment is occurring or is likely to occur. The EMR will also require that Gongues Constructions initiate reasonable actions to avoid or minimise adverse impacts.
- Review corrective and preventative actions to ensure the implementation of recommendations made from audits and site inspections.
- Certify that minor revisions to the CEMP are consistent with the approved CEMP.
- Provide regular (as agreed) reports to Gongues Constructions and Environmental Services on matters relevant to carrying out the EMR role, including notifying of any stop work notices. Monitoring of environmental conditions during the project will be carried out through inspections and audits.



6.5 EPL Reporting

Googong WRP is subject to the conditions of EPL 20788 (see Appendix M). This requires environmental reporting to be posted to the GTPL website within 14 days. This license relates to the plants operation, rather than the construction stage, however Gongues shall report all information to the client, including details of environmental performance, incidents and complaints in accordance with contractual requirements, to assist GTPL in meeting these requirements.



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix A Waste & Resource Management Plan



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix B Weekly Environmental Inspection



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix C Soil & Water Management Plan



Appendix D Organisational Chart



Appendix E Environmental Impact Planning Checklist

<i>ENVIRONMENTAL IMPACT PLANNING CHECKLIST</i>	Action Required?	List Action
ISSUE: Access and Traffic Management		
Will construction work interfere with traffic flow?	Possibly	Implement TPMP
Will construction work interfere with pedestrians?	Possibly	Implement TPMP
Will construction work interfere with access for local residents?	Possibly	Implement TPMP
Will access to site by construction vehicles interfere with traffic flow?	Possibly	Implement TPMP
Could parking arrangements for employee vehicles interfere with traffic flow?	Possibly	Implement TPMP
Council approval Required for work in public Road?	No	
Any services to be adjusted or modified to allow vehicle or plant access?	No	
Is signage required including names & telephone numbers?	Yes	Company Sign & contact details
Is there any work within public roads?	No	
Is a TCP required?	Yes	See TPMP
Do any survey marks need to be removed?	No	
Other:		
ISSUE: Erosion, Sedimentation and Surface Water Quality		
Will re-direction of waterway channel or culvert produce more concentrated flow of waters?	No	
Will banks of waterways be disturbed and susceptible to erosion?	No	
Will ground surface be disturbed and be susceptible to erosion in storms, surface runoff or flooding?	Yes	See SWMP
Are cuttings or embankments being constructed, with exposure of batters to potential erosion?	No	
Does sediment have to be trapped before run-off enters waterways?	Yes	See SWMP
Can surface run-off flowing through construction site become unclean before entering creek or rivers?	Yes	See SWMP
Will unclean water need to be released from detention areas (e.g. sediment basin, bunded refuelling area) into creek or river?	Yes	See SWMP



Could mud or litter be deposited from construction vehicles onto trafficked roadway?	Yes	See SWMP
Is there a need for a sediment control plan?	Yes	See SWMP
Can there be runoff from Stockpiles?	Yes	See SWMP
Are there any fences across floodway's?	No	
ISSUE: Air Quality		
Will dust be generated from construction site by plant/vehicle movements, haulage or processing operations or in dry, windy conditions?	Yes	See 4.3.1
Will dust be generated from stockpiles in dry windy conditions?	Yes	See 4.3.1
Are fires proposed to burn cleared vegetation or other waste material or litter?	No	
Is there significant risk of unplanned fires (e.g. dry grass)?	No	
Could type of plant used produce visible smoke emission?	Possibly	Monitor (daily pre-start checks)
Other:		
ISSUE: Noise, Ground Vibration and Air Blast		
Will construction equipment generate significant noise, which could unduly disturb neighbouring residents?	Possibly	See 4.3.4 & NVMP
Are there any nearby premises which are particularly noise-sensitive (e.g.. school, hospitals)	No	
Is it likely that noisy construction work may be performed outside normal working hours?	No	
Could vibration from construction plant or operations damage adjacent buildings?	Possibly	See 4.3.4 & NVMP
Are there any nearby structures, which are particularly vibration-sensitive (e.g. historic buildings)?	No	
Could vibration or air blast from construction plant or operations cause undue disturbance to neighbouring residents?	No	
Will there be any offensive noises?	Possibly	See 4.3.4 & NVMP
Other:		
ISSUE: Vegetation and Fauna		
Is there vegetation adjacent to work areas, which will need to be retained?	Yes	See 4.3.5
Could construction activity introduce or spread weeds?	Yes	See 4.3.5
Can disturbed topsoil be re-used?	Yes	See 4.3.5
Can cleared vegetation be re-used?	Yes	See 4.3.5
Will Earthworks batters, etc. need to be revegetated or landscaped?	Yes	See 4.3.5
Will areas of disturbed ground (e.g. access roads, storage areas) need to be revegetated?	Yes	See 4.3.5



Is native fauna present, which will be disturbed by construction work?	Possibly	See 4.3.5
Could fish in permanent watercourses be disturbed by construction work?	No	
Is there an approved landscape Plan?	No	
Are there trees to be retained on site?	Yes	See 4.3.5
Are there any wetland areas?	No	
Other:		
ISSUE: Contaminated Ground		
Is there a possibility that areas of contaminated soil could be expected (e.g. acid sulphate soil)?	Possibly	Where contaminated soils are identified a procedure will be developed in accordance with all parties to handle the contaminant safely & legally
Will construction involve treatment or offsite disposal of contaminated soil?	Yes	See 4.3.11
Other:	No	
ISSUE: Fuels and Chemicals		
Will plant or vehicles be refuelled on site?	Yes	See 4.3.8
Will fuel be stored on site	Yes	See 4.3.8
Will hazardous chemicals be used during construction?	Yes	See 4.3.8
Will hazardous chemicals be stored on site?	Yes	See 4.3.8
Other:		
ISSUE: Indigenous and Non-Indigenous Heritage		
Is the work site in an area where items of Aboriginal origin could be encountered?	No	
Is the work site In an area where items of value as non-indigenous relics could be encountered?	No	
Other:		
ISSUE: Waste Management		
Will construction generate surplus material, which can be recycled?	Yes	See 4.3.11
Will construction generate waste material, which can be disposed on site?	Yes	See 4.3.11



Will construction generate waste material which will have to be disposed of offsite?	Yes	See 4.3.11
Will amenities for site personnel generate effluent?	Yes	See 4.3.11
Will site personnel generate litter or rubbish?	Yes	See 4.3.11
Other:		
ISSUE: CEMP		
CEMP to be prepared to prevent environmental pollution & harm to flora & fauna and ensure compliance with relevant provisions of the <i>Protection of the Environment Operation Act, 1997 (NSW) & Regulations</i>	Yes	Provide CEMP
Other:	No	
ISSUE: Building Works		
All building works must be carried out in accordance with the provisions of the Building Code of Australia	Yes	Comply
Other:	No	



Appendix F Emergency Contact Numbers

Managing Directors

Carlos Gonçalves 0418 681 736

Herculano Gonçalves 0407 245 672

Aladino Domingues 0419 251 376

Project Manager

Carlos Gonçalves 0418 681 736

Contract Manager

Lachlan Bryan

Environmental Manager

Lawrence De Sylva 0448 104 952

Environmental Management Representative

Steve Cooper 0412 545 569

Site Supervisor

Herculano Gonçalves 0407 245 672

First Aid Officers

Herculano Gonçalves 0407 245 672

Steve Cooper 0412 545 569

Project Superintendent

Geoff Gardner 0432 565 123

Regulators

Environmental Protection Authority (EPA) 131 555

Office of Environment and Heritage (OEH) 131 555

Injured Wildlife

WIRES 1300 094 737

EMERGENCY 000 (or mobile 112)



Appendix G Emergency Spill Procedure

SOP8 Emergency Spills



Appendix H Reference Document List

Item No	Document	Author	Issue
1	Googong Township IWC Project – Stage C Water Recycling Plant Environmental Impact Statement	RPS Mandis Roberts Pty Ltd	26/10/16
2	Googong Township IWC Project – Stage C Water Recycling Plant Construction Access Statement of Environmental Effects	RPS Mandis Roberts Pty Ltd	8/3/17
3	<i>Blue Book Vol. 1: Managing Urban Stormwater: Soils and Construction</i>	Office of Environment and Heritage	4 th Edition
4	<i>Environmental Best Management Practice Guideline for Concreting Contractors</i>	Office of Environment and Heritage	1 st Edition November 2004
5	Queanbeyan City Council's Development Construction Specification (Version 3.1)	Queanbeyan City Council	June 2011



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix I Traffic & Pedestrian Management Plan



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix J Site Cooperative Use Plan



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix K Noise & Vibration Management Plan



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix L Map of Environmentally Sensitive Areas



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix M Environmental Protection Licenses 20188 & 20788



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix N Pollution Incident Response Management Plan



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix O GT Googong Monthly Environmental Report



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix P Stage C Commissioning Plan



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix Q Emergency Response Management Plan



Gongues Constructions Pty Ltd

Construction Environmental Management Plan

Googong Stage C Water Recycling Plant

Appendix R Interim Reservoirs Demolition
