

18 Draft Statement of Commitments

The environmental assessment (EA) must include a draft Statement of Commitments detailing measures for environmental mitigation, management and monitoring for the Project.

18.1 Overview

This EA includes:

- An environmental risk assessment for the Project (Chapter 6).
- The likely environmental impacts associated with the Project, and mitigation and management measures to minimise or avoid (as far as practicable) the risk of environmental harm (Chapters 7–14).
- A residual risk assessment (Chapter 15).

The mitigation and management measures outlined in these chapters, and any further recommendations made by specialist environmental consultants, have contributed to the development of the draft, high-level, principle-based draft Statement of Commitments presented in this chapter.

The proponent, CIC Australia, will undertake these commitments as part of the ongoing development of the Project. The draft Statement of Commitments may be revised in response to stakeholder and community input received during the exhibition phase of this EA.

Following determination of the EA, and pending approval of the Project, the revised commitments will guide subsequent phases of the Googong township and delivery of the Project to avoid or minimise impacts on the environment.

Any consortium or contractor involved in any future planning approvals, design, construction and/or operation phases of the Project will be required to undertake all works in accordance with the Statement of Commitments in their final form.

18.2 Draft commitments

The draft Statement of Commitments for the ultimate Project, and for Stage 1 of the Project, are outlined in Table 18.1 and includes:

- An objective.
- Details of the high-level, principle-based commitment.
- The timing of when the commitment applies (ie prior to construction, during construction or during operation).
- Reference to relevant sections of the EA, documents or guiding principles influencing the objective and implementation of the commitment.

The structure of Table 18.1 is based on the Director-General's Requirements and the key components of Chapters 7–14 of this EA.

Table 18.1 Draft Statement of Commitments for the Project

Objective	Ref. no.	Commitment	Timing	References
Project detailed design				
Ensure final location and design of all water cycle infrastructure minimise impacts on natural environment and human health.	D1	Any location and/or design changes will be subject to a consistency assessment, informed through a desktop analysis of each of the environmental issues addressed in this EA.	Prior to construction	Chapter 5 and Part B of the EA
	D2	Where any final location and/or design changes are not generally consistent with the Part 3A approval of the Project, the proponent will apply for modification under section 75W of the EP&A Act.	Prior to construction	Chapters 3, 5 and Part B of the EA
Construction management				
Put management systems in place for protection of the environment.	C1	A construction environmental management plan (CEMP) will be developed in consultation with relevant agencies to manage the environmental issues assessed in this EA and implement the identified mitigation and management measures where required.	Prior to construction	Chapters 6 and Part B of the EA
Minimise impacts on human amenity as a result of construction hours.	C2	Construction work will generally be undertaken between the hours of 6.00am and 7.00pm Monday to Friday, and 8.00am to 1.00pm Saturdays. At all other times, construction noise levels will be as agreed with the relevant receiver(s).	Construction	Chapter 5, Section 13.4 and Appendix J of the EA
Operational management				
Ensure comprehensive monitoring of operation of the water cycle.	OP1	Establishment and location details for monitoring sites will be in accordance with WQ4. Results of all monitoring programs that form part of these SoCs will be considered in terms of overall environmental impact on a regular basis, including: <ul style="list-style-type: none"> The trade-off between potable water savings, reduction in stormwater discharges and increased recycled water discharges. Relative impacts of excess recycled water discharges compared to impacts on soil and groundwater from recycled water uses. The timeframe for relative comparisons of impacts of components of the water cycle will be determined in consultation with the relevant government agencies. The ability to feedback results for further stages of Googong township. 	Operation	Chapters 5 and 7 of the EA
	OP2	Telemetry will be installed on all major water cycle infrastructure to gather operational data.	Operation	Chapter 5 of the EA

Objective	Ref. no.	Commitment	Timing	References
Adaptive management	OP3	<p>Management plans will be reviewed with consideration of the outcomes of monitoring programs:</p> <ul style="list-style-type: none"> Additional management and mitigation measures will be implemented, should monitoring identify that the water cycle system is operating outside of modeled or expected parameters. 	Operation	Chapter 6 of the EA
Community and stakeholder consultation				
Ensure effective consultation with community and other stakeholders is continued.	CS1	A combined consultation strategy for community stakeholders and key government agency will continue to be implemented throughout the Project. The outcomes of ongoing consultation will continue to influence the Project.	Prior to and during construction and operation	Chapter 16 of the EA
Ensure all affected stakeholders are kept informed of the construction schedule.	CS2	During construction, affected communities will be informed prior to the start of any works in their area and will be notified at regular intervals throughout the construction process according to a project-specific community engagement and stakeholder management plan.	Construction	Chapter 16 of the EA
Ensure coverage of water cycle issues in the broad community education strategy for the Googong township.	CS3	A community education strategy will be developed, which will focus on minimising environmental and human health risks associated with the use of recycled water.	Prior to and during construction and operation	Chapters 8 and 16 of the EA
Water quality and hydrology				
Implement water quality and hydrology management procedures.	WQ1	To reduce risks associated with water quality, soil and water management plans will be developed and implemented for the construction phase, via the CEMP, in accordance with <i>Managing urban stormwater: soils and construction, Volume 1</i> (the Blue book).	Prior to and during construction	Chapter 7 of the EA
Minimise the risk of surface water contamination.	WQ2	<p>A spill management and response procedures will be developed in the CEMP for the construction phase of the Project. These will specify that:</p> <ul style="list-style-type: none"> Any fuels and chemicals will be stored to meet relevant standards in bunded or contained areas and a spill kit will be provided at all locations where fuels and/or chemicals are used. Fuel and chemical storage sites will not be located in the vicinity of any permanent and/or flowing waterway. The maintenance or refuelling of equipment will not be undertaken within the vicinity (within 150m) of any waterway. 	Construction	Chapter 7 of the EA

Objective	Ref. no.	Commitment	Timing	References
Ensure bank stabilisation in construction sites.	WQ3	<p>The CEMP will incorporate measures to ensure that creek banks are stabilised during the construction phase, such as:</p> <ul style="list-style-type: none"> • Stabilising where required by establishing rocks, sandbags/ matting to prevent scouring, ensuring that they are placed to conform as far as possible with existing contours. • Respreading topsoil over the area from where it was removed. 	Construction	Chapter 7 of the EA
Monitor impacts on waterways.	WQ4	<p>A monitoring program to assess the potential impacts of the Project on the Queanbeyan River (including water quality, flow, fish migration, macrophytes and macroinvertebrate communities) will be undertaken.</p> <ul style="list-style-type: none"> • Details of the monitoring program will be determined in consultation with relevant government authorities/stakeholders (including the DECCW, DPI and, potentially, ACTEW). Such consultation will ensure the sharing of available data for the Queanbeyan River for comparative and impact assessment purposes. • A new monitoring site within the Queanbeyan River is proposed to measure water quality and aquatic ecology impacts over the medium term. This site will be located near the confluence of Googong Creek and Queanbeyan River (and will be sited to enable comparison with data collected from upstream and downstream sites). • Monitoring will commence approximately 12 months prior to commissioning the water recycling plant. 	Prior to and during construction, and during operation	Chapter 7 and Section 11.2 of the EA
Minimise erosion and sedimentation impacts of increased catchment flows.	WQ5	<p>The operation environmental management plan (OEMP) will outline erosion and sediment control measures to protect buffer and riparian vegetation zones, in general accordance with WQ3.</p>	Operation	Chapter 7 of the EA
Human health				
Ensure recycled water meets all relevant guidelines.	HH1	<p>Recycled water will meet the requirements for non-potable domestic use as defined in the <i>Australian Guidelines for Water Recycling: Managing Health and Environmental Risks</i> (NRMCC, EPHC & AHMC, 2006).</p> <p>Recycled water will be appropriately planned and industry accepted management systems put in place to assure appropriate product quality.</p>	Operation	Chapter 8 of the EA

Objective	Ref. no.	Commitment	Timing	References
	HH2	<p>A Recycled Water Risk Management Plan (RWRMP) will be prepared based on the risk management framework outlined in <i>Australian National Guidelines for Water Recycling – Managing Health and Environmental Risks (2006)</i>. This RWRMP will be a living document that will be refined throughout operation of the recycled water scheme. It will involve:</p> <ul style="list-style-type: none"> • Developing the RWRMP through hazard identification (for the operation of the recycled water system and use of recycled water). • Identifying the significant human and environmental health risks. • Conducting validation, operational and verification monitoring to determine the success of the following respective components of the scheme: the risk management system, preventative measures, and the achievement of safe and sustainable water recycling. • Completing the RWRMP, based on the monitoring results. 	Prior to operation and during operation	Chapter 8 of the EA
Reduce risks associated with exposure to recycled water.	HH3	<p>The Proponent will apply the following risk management practices to limit exposures to recycled water:</p> <ul style="list-style-type: none"> • Installation regulations and codes of practice that include systematic processes to reduce the probability of cross-connections. • Materials codes and regulations that easily discriminate drinking and recycled water plumbing. • Regulations that limit the legal installation and modification of plumbing systems to licensed individuals. • Education on recycled water use and the need to avoid creating cross-connections. • Installation of backflow prevention. • Operational checking (that is, testing of recycled effluent quality following treatment) and connection auditing. • Continue to liaise with relevant stakeholders to ensure awareness and understanding of the Project (including discharges of excess recycled water to the environment) and to address arising issues. 	Construction and operation	Chapter 8 of the EA

Objective	Ref. no.	Commitment	Timing	References
Soil				
Ensure proper management of soils.	S1	Soil and water management plans will be developed and implemented for the construction phase, via the CEMP, in accordance with <i>Managing urban stormwater: soils and construction, Volume 1</i> (the 'Blue book'). Soil types will be identified and delineated within the study area. Soil management measures will be developed according to soil type and be documented in the CEMP.	Prior to construction	Chapter 9 of the EA
Prevent soil erosion and minimise loss of topsoil.	S2	The CEMP will detail erosion and sedimentation control measures, to maintain surface and soil stability at all times during cut and fill excavation activities (also necessary to ensure site safety). Graded soil will be stockpiled separately so that local soils can be recovered for respreading. During restoration and cleanup, the following will be applied in relation to stabilisation of soils: <ul style="list-style-type: none"> • Reprofiling of the site to achieve soil stability and congruity with the surrounding landscape. This will be done in consideration of the landscape and open space strategy (LOSS) for the Googong township. • Reseeding and the use of geotextile materials as required. • Backfilling of trenches in layers with compaction. • Management and exclusion of site access to assist with site recovery. 	Construction	Chapter 9 of the EA
Prevent and manage spills.	S3	To prevent and manage spills, the proponent will: <ul style="list-style-type: none"> • Implement chemical transport, storage, handling and disposal procedures, in accordance with requirements for dangerous goods, of environmental legislation and industry standards. • Ensure spill response procedures and equipment for containment and recovery are available on site. • Conduct workforce training on the transport, storage, handling and disposal procedures relating to chemicals. 	Construction and operation	Chapter 9 of the EA

Objective	Ref. no.	Commitment	Timing	References
Manage potential and/or real soil contamination on site.	S4	<p>To manage soil contamination, the proponent will:</p> <ul style="list-style-type: none"> • Manage contaminated soil disposal or removal from site in accordance with DECCW <i>Waste Classification Guidelines</i>. • Conduct further investigations at the newly identified area of concern (AEC – identified as Site 3 in Section 6.4 of the EA) prior to construction. A DECCW accredited site auditor will provide advice on the need for further investigations at AEC3, if it is to be disturbed by the Project. • Develop a sampling strategy for AEC2 (shown in Section 6.4 of the EA) as soon as the existing uses at the site cease, in consultation with a DECCW accredited site auditor. • If potential or actual contamination is found during earthworks, stop all work in the affected area until a suitably qualified person has inspected the site, the hazard has been assessed and appropriate action has been taken (including delineating areas of concern as required until earthworks can resume safely). 	Prior to and during construction	Chapter 9 of the EA
Ensure minimal impact on soil salinity and groundwater quality	S5	<p>Ensure that appropriate materials are used to mitigate against the corrosive impacts of high salinity.</p> <p>Design, where possible, the salt sensitive urban stormwater drainage system to direct potential saline runoff to a water body that is able to assimilate the expected salt load being applied to the landscape, without adverse impacts on aquatic and riparian ecosystems.</p> <p>Place and design built structures in consideration of existing and potential soil salinity levels.</p> <p>The proposed WRP should be designed to minimise the need for additions of chemicals for phosphorus removal, to minimise salt loading. The Proponent will explore options to switch off the phosphorus removal process during peak irrigation demand periods in accordance with OP1.</p> <p>Early stages of Googong township will be used as a trial to better understand the movement of salt in the landscape. It will involve the installation of carefully located piezometers and the monitoring of results, as well as monitoring the effectiveness of pre-emptive measures such as any subsurface drainage system. The results will be used to improve strategies for ensuing stages.</p>	Prior to and during construction and during operation	Chapter 9 of the EA

Objective	Ref. no.	Commitment	Timing	References
Groundwater				
Prevent impacts to groundwater recharge.	G1	Timing of trench construction will be monitored and planned to ensure, where practical, the time the trench is open is reduced and during periods of low rainfall.	Construction	Chapter 10 of the EA and Appendix E of the EA
Minimise groundwater contamination.	G2	<p>Site environmental management measures will be developed and outlined in the CEMP with the purpose of minimising the potential for spills to occur and implementing remedial actions (refer to SG1). These will include:</p> <ul style="list-style-type: none"> • Mapping unregistered nearby groundwater bores, if identified. • Ensuring that all refuelling, where possible, occurs at designated fuel distribution points. These points will be underlain by compacted earth to prevent the significant loss of fuel to the ground during a spill and will be bunded to contain large spills. 	Prior to and during construction	Chapter 10 of the EA and Appendix E of the EA
Monitor groundwater quality to minimise adverse impacts.	G3	<p>Develop a groundwater monitoring program for the Project in consultation with relevant stakeholders. This program will address the following:</p> <ul style="list-style-type: none"> • The salt levels in groundwater will be regularly monitored during and after Stage 1 of the Project. • Groundwater samples will be collected from both the shallow and regional aquifers, and soil conductivity (that is, salt) mapping will be carried out where possible in areas of inferred impact. • The monitoring of salt levels in the receiving waters will be indicative of the effectiveness of the stormwater system (see below). <p>Recycled water users will be informed of the specific risks associated with irrigation with recycled water, in the context of developing a complete awareness of the Project and its environmental trade-offs. This will include:</p> <ul style="list-style-type: none"> • Education on salinity impacts on soil and plant damage and regrowth. • Encouragement to grow salt-tolerant species, particularly in areas considered to be of high risk. <p>Householders will be educated on the benefits of using detergents that are low in phosphorus, sodium and salt – in terms of the impact on recycled water quality. This will form part of the broad community education program.</p>	Operation	Chapter 10 of the EA and Appendix E of the EA

Objective	Ref. no.	Commitment	Timing	References
Minimise impact on drainage.	G4	Develop the layout of infrastructure to reduce the impact on natural surface and subsoil drainage.	Prior to construction	Chapter 10 of the EA and Appendix E of the EA
Minimise the potential for groundwater mounding.	G5	Construct in accordance with the approved materials and provisions of water supply code (WSA) 03-2002 to minimise leakage from water cycle infrastructure.	Construction	Chapter 10 of the EA and Appendix E of the EA
Minimise the potential for waterlogging.	G6	<ul style="list-style-type: none"> The risks associated with waterlogging will be considered and accommodated through the design of the drainage system. Irrigation systems will be designed and scheduled to avoid overwatering. 	Prior to construction (for operation)	Chapter 10 of the EA and Appendix E of the EA
Minimise salinity impacts on soil and plant growth.	G7	<ul style="list-style-type: none"> Soil monitoring in low-lying areas, where salt is likely to accumulate, will be undertaken. If salt levels were shown to be increasing, engineered drainage structures to nearby creek lines will be constructed. As a preventative measure, to avoid future bare soil patches and erosion, salt-tolerant landscaping will be used in low-lying areas. 	Operation	Chapter 10 of the EA and Appendix E of the EA
Terrestrial flora and fauna				
Protect native flora and fauna.	F1	<p>A flora and fauna management plan will be prepared prior to construction as part of the CEMP. All feasible and reasonable measures will be undertaken to minimise the impact of construction on native vegetation and fauna including:</p> <ul style="list-style-type: none"> Minimising the disturbance of native flora and hollow-bearing trees. Implementing weed control measures. Revegetating with endemic species. Minimising soil disturbance. Implementing clearing protocols to protect flora and fauna. 	Prior to and during construction	Chapter 11 of the EA and Appendix F of the EA

Objective	Ref. no.	Commitment	Timing	References
Protect threatened flora and fauna.	F2	<p>The flora and fauna management plan (within the CEMP) will contain specific additional measures for threatened species, including:</p> <ul style="list-style-type: none"> Only approved works will be undertaken within 5m of a threatened species and exclusion fencing will be erected around threatened flora species and threatened fauna habitats and maintained in place until such time as construction works are completed, unless otherwise approved by DECCW. Site-specific management measures will be implemented for the protection of the Pink-Tailed Legless Lizard near the site proposed for SPS2 and at Hill 800, and for the Hoary Sunray near the BWPS site, including exclusion zones, signage and pre-construction surveys. These works will be undertaken under the supervision of an appropriately qualified ecologist. 	Prior to and during construction	Section 11.1 of the EA and Appendices F and P of the EA
Protect terrestrial flora and fauna.	F3	An Operational Environmental Management Plan (OEMP) will be prepared for the Project, and implemented. This will detail emergency, spill and maintenance procedures as well as monitoring and reporting regimes as they relate to the protection of terrestrial and aquatic ecology.	Operation	Chapter 11 of the EA and Appendix F of the EA
Aquatic ecology				
Avoid impacts on and monitor changes to aquatic ecology.	A1	<p>Aquatic ecology impacts are considered under WQ4.</p> <p>A water quality and aquatic ecology monitoring program will be developed to monitor construction and operation impacts of the Project on waterways. (refer to WQ4 for further details). The monitoring program will include siting of the aquatic ecology monitoring location to ensure viable comparison with historical and other recent river ecology data.</p> <p>Riparian vegetation, weeds and invasive scrub will be managed within the Googong township site. This will include surveying, mapping and managing invasive species.</p>	Prior to and during construction, and during operation	Chapter 7 and Section 11.2 of the EA
Minimise impacts on aquatic habitats.	A2	Riparian zones within the Googong township site will be revegetated with species of local provenance to increase stability. Further measures to ensure minimal impact on aquatic habitats are addressed in SoCs WQ1-5.	Construction	Chapter 7 and Section 11.2 of the EA

Objective	Ref. no.	Commitment	Timing	References
Indigenous (Aboriginal) and non-indigenous cultural heritage				
Indigenous heritage				
Avoid and/or minimise impacts on indigenous heritage.	H1	Generally, indigenous heritage on the site will be managed in accordance with Appendix G of the EA. The avoidance, relocation or disturbance of any Aboriginal heritage sites and PADs will be in accordance with DECCW guidelines and permits. An archaeologist and representatives of the local Aboriginal community will conduct any relocation works.	Prior to and during construction	Chapter 12 of the EA and Appendix G of the EA
Protect unknown indigenous heritage	H2	Should any unknown indigenous heritage items be located during the proposed works, all work will cease in the vicinity of the find until specialist indigenous heritage advice is received.	Construction	Chapter 12 of the EA and Appendix G of the EA
Non-indigenous heritage				
Avoid and/or minimise impacts on non-indigenous heritage.	NH1	Generally, non-indigenous heritage on the site will be managed in accordance with Appendix G of the EA. Construction and maintenance activities will be managed to avoid structural damage on heritage items as a result of vibration. Construction activities will be excluded from the identified heritage sites. However, if impacts are unavoidable then a further heritage assessment of the impacted site(s) will be conducted.	Prior to and during construction	Chapter 12 of the EA and Appendix G of the EA
Continue to investigate heritage values of site GH14 (refer to Section 7.7)	NH2	Investigation into the value of site GH14 is continuing. The results of this study will inform the approach to mitigation of impacts to non-indigenous heritage.	Prior to construction	Chapter 12 of the EA and Appendix G of the EA
Protect unknown non-indigenous heritage items.	NH3	If any material of potential archaeological significance is unearthed, work will cease until specialist heritage advice has been obtained.	Construction	Chapter 12 of the EA and Appendix G of the EA

Objective	Ref. no.	Commitment	Timing	References
Traffic, transportation and access				
Minimise disturbance to local traffic and amenity during construction.	T1	<p>A traffic management plan will be prepared prior to the commencement of construction. It will detail traffic arrangements for the construction phase of the Project. This will include:</p> <ul style="list-style-type: none"> • The use of standard mitigation and management controls. • Planning of vehicle use to maximise efficiency and reduce vehicle trips. • An education program for construction personnel in relation to local traffic arrangements (as per the plan) and local conditions (such as the intersection of Googong Dam Road and Old Cooma Road). • Access to properties and provisions for temporary access. <p>A traffic control contractor will be engaged to implement the traffic management plan (such as partial road closures), where necessary specialist advice is required.</p>	Prior to and during construction	Section 13.1 of the EA and Appendix H of the EA
Manage traffic, transportation and access with local authorities.	T2	<p>Traffic, transportation and access will be managed in consultation with relevant stakeholders, including Queanbeyan City Council and the RTA, including impact mitigation and management measures to address partial road closures, access to properties and provisions for temporary access and re-instatement.</p>	Prior to and during construction	Section 13.1 of the EA and Appendix H of the EA
Minimise the impact of transportation.	T3	<p>Any oversized or overweight loads will be transported in accordance with RTA guidelines and requirements.</p>	Construction	Section 13.1 of the EA and Appendix H of the EA
Minimise impact of traffic and access on stakeholders and the local community.	T4	<p>Councils, property owners and local community members will be informed of any potential loss of or disruption to access to properties, roads and/or pathways. Appropriate temporary measures to either provide alternative access or to reinstate access at the end of each workday will be negotiated with relevant parties.</p>	Construction	Section 13.1 of the EA and Appendix H of the EA
Manage operational traffic, transportation and access to minimise impacts on local conditions.	T5	<p>A traffic management plan will be prepared for the operation and maintenance of key water cycle infrastructure, which will include:</p> <ul style="list-style-type: none"> • Standard management and mitigation measures for managing vehicle movements at water cycle infrastructure sites. • Timing of truck movements for deliveries and disposal, and parking arrangements. 	Operation	Section 13.1 of the EA and Appendix H of the EA

Objective	Ref. no.	Commitment	Timing	References
Waste generation and management				
Practice responsible resource management during construction.	W1	<p>The CEMP will address the principles of the resource management hierarchy (avoidance, resource recovery and disposal in that order) and disposal will be to a licensed waste facility. The CEMP will include the following:</p> <ul style="list-style-type: none"> • Procedures to classify waste types in accordance with the Waste Classification Guidelines and NSW legislative requirements. • Resource recovery and re-use strategies for each waste type. • Details of treatment and storage of on-site waste. • Procedures and disposal arrangements for relevant materials. • Reporting and recording requirements for all waste movements, allowing determination of recycling and re-use levels achieved. 	Construction	Section 13.2 of the EA
Practice responsible resource management during operation.	W2	<p>Operational management of wastes will be incorporated into the OEMP for the key sites. Some inclusions are procedures for:</p> <ul style="list-style-type: none"> • The collection and transportation of grit and screenings from the WRP to an appropriately licensed facility. • Treatment and handling of biosolids, suitable for use in agriculture, forestry, soil and site rehabilitation (Grade B), in accordance with DECCW's <i>Environmental Guidelines on the Use and Disposal of Biosolids Products</i> (2007). • Management and monitoring of the discharge of treated effluent (recycled water) during commissioning and verification phases of the WRP operation. • Waste management for putrescible and recyclable wastes generated from the WRP and other water cycle infrastructure. • Procedures for the collection and dewatering of any solid matter removed through maintenance activities of water cycle infrastructure, and transportation and disposal off site. • Vehicle routes, and the timing of trips, associated with waste management, in consideration of the traffic management plan. 	Operation	Section 13.2 of the EA and Appendix B of the EA

Objective	Ref. no.	Commitment	Timing	References
Air quality				
Ensure detailed design and urban layout of the Googong township meet air quality requirements for odour.	AQ1	<p>The dispersion modelling undertaken as part of the Googong New Town WRP Odour Impact Assessment will be validated at a later stage in the design, for the ultimate development. This will include consideration of:</p> <ul style="list-style-type: none"> • Site-specific meteorological data, collected at the WRP site for at least 12 months prior to commissioning. • Site specific odour data collected during and following commissioning, prior to the residential development of the immediate area west of the WRP. 	Prior to and during construction, and during operation of Stage 1 of the Project.	Section 13.3 of the EA and Appendix I of the EA
Minimise odour impacts of WRP and SPS at nearby receivers.	AQ2	Odour control facilities at the SPSs and the WRP will be installed as detailed in this EA (see Sections 4.4.2 and 5.13 of Appendix B).	Construction	Section 13.3 of the EA and Appendices B and I of the EA
Monitor, verify then act on odour complaints.	AQ3	Odour complaints will be registered and investigated. Verified odour issues will be addressed with engineering, operational or other mitigation and management measures.	Operation	Section 13.3 of the EA
Minimise the impact of construction activities on dust generation.	AQ4	<p>The CEMP will include typical dust suppression measures. Nuisance dust will be minimised by:</p> <ul style="list-style-type: none"> • Reducing speed limits during high dust conditions. • Clearing vegetation and topsoil only within the designated footprint. • Progressive reinstatement of disturbed areas. • Employment of water trucks to reduce dust in dry, windy conditions. 	Construction	Section 13.3 of the EA
Minimise dust generated by construction activities such as blasting.	AQ5	Blasting will be conducted at appropriate times, with consideration of site conditions and sensitive receivers.	Construction	Section 13.3 of the EA
Manage construction activities according to weather conditions to minimise the potential for dust storms.	AQ6	Working practices will be modified during periods of high winds by limiting the use of some machinery, particularly when in close proximity to dwellings, and reducing vehicle travel speeds.	Construction	Section 13.3 of the EA
Avoid adverse impacts on air quality due to smoke.	AQ7	The burning of material on site will be prohibited, except under the instruction of fire services.	Construction	Section 13.3 of the EA
Minimise emissions from vehicle use.	AQ8	Vehicles will be well maintained to ensure emissions are kept to the minimum practicable.	Construction	Section 13.3 of the EA

Objective	Ref. no.	Commitment	Timing	References
Noise and vibration				
Minimise the noise impact associated with construction.	N1	<p>Construction noise and vibration management strategies will be outlined in the CEMP. Measures will include the overall construction times (refer to C2) as well as the following:</p> <ul style="list-style-type: none"> • Construction noise goals. • Liaising with community to advise on likely timing and duration of noisy activities. • Procedures for resolving complaints received from residents and landowners and dealing with exceedances (including the appointment of a liaison person to maintain relationships between the community and the construction contractors in accordance with AS 2436-1981). • Using noise abatement measures (physical and managerial) where reasonable and feasible. • Procedures for liaising with the relevant agencies to discuss the need to construct outside of regular hours, for specific cases. 	Construction	Section 13.4 of the EA and Appendix J of the EA
Assess the potential for vibration impacts should blasting be required.	N1A	<p>Should blasting at the WRP or SPS sites be necessary based on geotechnical information and construction methodology, a construction vibration assessment will be undertaken in accordance with <i>Assessing Vibration: A Technical Guideline</i> (DECC, 2006) to determine any additional management measures required for blasting activities.</p>	Construction	Section 13.4 of the EA and Appendix J of the EA
Meet noise requirements near the WRP site boundary during operations.	N2	<p>The acoustic treatments specified for the WRP components, as outlined in Appendix J, will be implemented and then reviewed for effectiveness following noise measurement verification.</p>	Construction and operation	Section 13.4 of the EA and Appendix J of the EA
Hazards and risks				
Manage the operational risks associated with storage and delivery of chemicals.	R1	<p>Measures typical of facilities of the nature and size of the Project will include:</p> <ul style="list-style-type: none"> • Storing relevant chemicals below threshold quantity levels. • Undertaking activities in accordance with relevant MSDSs. • Installing bunded areas for the storage and delivery of chemicals in accordance with AS 3780:2008 and the relevant MSDSs. • Developing and implementing appropriate procedures for delivery, handling and accidental spills of chemicals. 	Operation	Section 13.5 of the EA and Appendix K of the EA

Objective	Ref. no.	Commitment	Timing	References
Manage risks in emergency and/or maintenance situations at the key infrastructure.	R2	<p>The OEMP and RWRMP will outline the management of emergency situations for all key water cycle infrastructure. For emergency or maintenance events associated with the WRP, the following will be implemented/installed, and will include measures such as:</p> <ul style="list-style-type: none"> • Telemetry at all key infrastructure (eg SCADA). • An alarm system. • Backup procedures should the power to infrastructure be interrupted. • First flush tank at the WRP and wet well emergency storage at the SPSSs. • Overflows at the WRP and the SPSSs. 	Operation	Section 13.5 of the EA
Visual amenity				
Minimise visual impact by maintaining existing vegetation where practical.	V1	<p>At relevant sites, existing vegetation will be maintained where practical and where appropriate.</p> <p>Additional vegetation will be planted along site boundaries to obscure views of infrastructure from sensitive receivers.</p>	Construction and operation	Section 13.6 of the EA and Appendix L of the EA
Minimise the visual impact of the reservoirs and access road (located on Hill 800).	V2	<p>Visual impact of the reservoirs will be minimised through painting the structures a colour that will be chosen as the most compatible and/or appropriate with the surrounding environment and proposed Googong township.</p> <p>The landscaping approach for the reservoirs and associated access road will ensure minimal visual impact by:</p> <ul style="list-style-type: none"> • Achieving the most appropriate finished landform profile of the top of the hill that integrates the reservoirs. • Detailing siting and design of any elements over and above the reservoirs to minimise visibility (eg plant equipment, fencing, signage, lighting). • Ensure the access road alignment is a careful balance of limited visible road profile and minimised cutting/embankment visibility where following contours. • Considering the location and extent of tree groups to best mitigate visual impacts. • Considering soil and microclimate factors and amelioration to ensure healthy and rapid tree growth. 	Construction and operation	Section 13.6 of the EA and Appendix L of the EA