Appendix 8

Statement of Commitments

(Total No. of pages including blank pages = 10)

This page has intentionally been left blank

Table A8.1
Statement of Commitments

Desired Outcome	Action	Timing
Appropriate construction of Landfill Cells	• Rip the base of the excavation to a depth of 300mm and blend 2% bentonite into the ripped material. Where sandy material is encountered within 300mm of the base of the excavation, this would be removed and replaced with 300mm of clay material which would then be mixed with 2% bentonite. • Compact the ripped material to achieve a dry density of 98% relative to standard compaction at a moisture content of 80% to 110% of the optimal moisture content. • Place stockpiled clay material, with 2% bentonite, in 3 x 200mm layers on top of the 300mm ripped material to achieve a minimum 900mm liner, with each layer compacted prior to placement of the next layer as described previously. Where placement of 200mm layers is not feasible, this material would be placed in 2 x 300mm layers. • Test the liner in accordance with the requirements of Level 1 Inspection and Testing identified in *AS 3798-2007 Guidelines on Earthworks for Commercial and Residential Developments.* • Progressively construct each cell from south to north, with internal ramps maintained for vehicular access and a sump for collection and management of incident rainwater and leachate.	During construction operations
Appropriate landfilling operations	• Permit only those wastes noted in Section 2.2 to be disposed of in landfill through the following. - Restrict access to the active section of the cell through the use of a relocatable fence or similar. - Visually inspect all waste within the General Waste Drop-off Area prior to being placed into the cell. • Fill and compact the waste in small sections or compartments in each cell. Use intermediate covers to limit the potential for wind-blown litter. • Capture incident rainfall and leachate within the active cell within a sump and transfer it to the Leachate Evaporation Pond, as required. • Collect and manage litter throughout the life of the Proposal. • Control dust emissions by sequencing of landfill development and stabilisation of disturbed areas as soon as possible. In extremely dry and hot conditions a water tanker or sprinklers would be employed to wet down dusty surfaces, as necessary. • Control odour by aerating the Leachate Evaporation Pond and oxidising gas from rehabilitated cells, as required. • Manage risks associated with fire through restriction of access to the active cell and regular inspection during times when the public has access to the facility. • Develop and implement a weed and pest control program.	Throughout the life of the Proposal

Table A8.1 (Cont'd)
Statement of Commitments

Desired Outcome	Action	Timing
Appropriate landfilling operations (Cont'd)	• Extend the existing reticulated water supply system within the Site to provide adequate water supply to enable any fires that do occur to be quickly and safely extinguished. • Prepare and implement a *Landfill Management Plan*.	Throughout the life of the Proposal
Appropriate hours of Operation	• Landfilling Operations 7:00am to 6:00pm, Monday to Saturday. • Public Access 7:00 am to 4:00pm Monday – Friday. 6:00am to 6.00pm Saturday. • Lock the facility to prevent public access outside the identified hours.	Throughout the life of the Proposal
Employee and Visitor Safety	• Ensure that there is no access to the active cell by the general public, with access limited to the General Waste Drop-off Area and Selected Waste Drop-off Area. • Install appropriate signage throughout the Site to ensure both waste delivery vehicles and any visitors remain within nominated areas. • Ensure all on-site employees and contractors are made aware of potential hazards and risks on-site to both staff and visitors and the appropriate management and safeguard measures required to mitigate these risks.	Throughout the life of the Proposal
Site Security	• Extend the perimeter fence of the existing facility around the perimeter of the entire Site.	During construction operations
Management of Groundwater	• Ensure that test drilling is undertaken within the footprint of each landfill cell prior to construction to determine the depth to the base of clay material. Where the depth is less than 6.9m below surface, namely the depth required to ensure a 900mm thickness of clay material below the base of the cell, the base of the cell would be adjusted to ensure a minimum clay thickness of 900mm. • Ensure that the base and walls of the landfilling cells are constructed as described in Section 2.5.3 and in accordance with EPA Benchmark Technique 1. • Ensure that a leachate collection system is constructed within each cell as described in Section 2.5.3 and in accordance with the requirements of EPA Benchmark Technique 2. • Ensure that each cell is capped as described in Section 2.5.3.	Throughout the life of the Proposal

Table A8.1 (Cont'd)
Statement of Commitments

Desired Outcome	Action	Timing
Management of Groundwater (Cont'd)	• Continue to implement a groundwater monitoring using bores MW1 to MW3 and MW6 to MW8. Indicative field measurements (standing water level, pH and electrical conductivity) would be undertaken monthly, with laboratory analyses undertaken annually or in the event that a departure from historic values for the field measurements identified in the *Landfill Environmental Management Plan* are observed. Extracted groundwater samples using the methodology identified in the *Murray-Darling Basin Groundwater Quality Sampling Guidelines.* Implement the groundwater monitoring program in accordance with the requirements of EPA Benchmark Techniques 4 to 6.	Throughout the life of the Proposal
Management of Surface Water	• Ensure that the existing man-made diversion structure is relocated during the life of the Proposal. • Ensure that a surface water diversion bund is constructed around the perimeter of the Site to prevent flow of clean water onto the Site or discharge of dirty water from the Site within six months of the commencement of landfilling operations under the Proposal. • Ensure that all cells are internally draining and that all water collected within the leachate collection system is either evaporated in situ or is pumped to the Leachate Evaporation Pond for evaporation in accordance with EPA Benchmark Technique 3. • Implement a program of surface water monitoring, including a leachate monitoring program, in conjunction with the groundwater monitoring program as described in Section 4.2.3 and in accordance with EPA Benchmark Techniques 7 and 8. • Ensure that operational sections of the Site, including the selected waste drop off area, are internally draining or drain to the active landfill cell in accordance with EPA Benchmark Technique 3. • Ensure that appropriate sediment controls are installed within and surrounding the soil and VENM stockpiling areas to ensure that sediment is not permitted to flow to other sections of the Site in accordance with EPA Benchmark Technique 3.	Throughout the life of the Proposal
Management of Biodiversity	• Ensure that land preparation and rehabilitation is undertaken progressively to minimise the total disturbed area any one time. • Ensure that the boundaries of areas to be disturbed are clearly marked on the ground to minimise the potential for inadvertent over clearing. • Ensure that the existing area of Myall Woodland EEC is fenced and signs erected indicating the presence and importance of the community and indicating that disturbance is not permitted. • Strip topsoil with the vegetation to ensure soil structure and seed bank is maintained in accordance with the procedures identified in Section 4.12.3.	Throughout the life of the Proposal

Table A8.1 (Cont'd)
Statement of Commitments

Desired Outcome	Action	Timing
Management of Biodiversity (Cont'd)	• Establish the visual amenity screens as identified in Section 2.4 using species representative of the Myall Woodland EEC. • Manage weeds within Council-controlled land, with particular focus on managing African Boxthorn.	Throughout the life of the Proposal
Management of Litter	• Implement measures in accordance with EPA Benchmark Technique 31. • Ensure that the waste placement measures identified in Section 2.5.4 are implemented throughout the life of the Proposal, including managing placement of waste and, where required, use of intermediate covers. • Construct a perimeter fence around the Site prior to the commencement of activities under this Proposal. • Construct and progressively relocated a litter fence around the active landfilling cell(s) throughout the life of the Proposal. • Ensure that waste is placed in the manner described in Section 2.5.4 and that intermediate covers are used as required throughout the life of the Proposal. • Implement a litter inspection program within and surrounding the Site during and following periods of high winds and collect windblown litter as required.	Throughout the life of the Proposal
Management of Noise	• Implement measures in accordance with EPA Benchmark Technique 37. • Strictly comply with the proposed hours of operation identified in Section 2.12. • Regularly service all equipment on site to ensure sound power levels of each item remains at or below the default/or factory-set values. • Ensure that all truck drivers are required to comply with the Council's Driver Code of Conduct outlining procedures for reducing noise impacts during transportation within the Site and off site. • Maintain an open dialogue with the surrounding community and neighbours to ensure any concerns over noise or vibration are addressed.	Throughout the life of the Proposal
Management of Air Quality, Odour and Greenhouse Gases	• Implement measures in accordance with EPA Benchmark Technique 34. • Water or treat internal roads with chemical suppressants, where appropriate, to minimise dust generation. • Restrict vehicle speed to 20 km/hr within the Site. • Ensure that completed sections of the active landfill cell are progressively rehabilitated to reduce the area of non-vegetated surfaces.	Throughout the life of the Proposal

Table A8.1 (Cont'd)
Statement of Commitments

Desired Outcome	Action	Timing
Management of Air Quality, Odour and Greenhouse Gases (Cont'd)	• Decomposition of residual waste (general solid (putrescible)) within landfill cells. • Stockpiling of garden organics waste (grass, leaves, trees, shrubs and timber) within the Selected Waste Drop-off Area. • Leachate evaporation. • These measures would be implemented in accordance with EPA Benchmark Technique 36. • Minimise the area of uncovered waste within the active cell by operating the smallest active tipping face practicable and through the use of intermediate covers. • Control the pH of the leachate that is evaporated to minimise its odour, if necessary. • Manage stockpiles to ensure that development of anaerobic conditions in the stockpiled greenwaste is minimised. • Install airtight fittings on leachate risers, if required. • Install and operate an aerator on the leachate evaporation pond, if required.	Throughout the life of the Proposal
Management of Fire	• Implement measures in accordance with EPA Benchmark Technique 13 and 38. • Limit the size of stockpiles of combustible materials. • Maintain separate stockpiles of combustible materials so that, in the event that a stockpile did catch fire, the fire would not spread to other stockpiles. • Regularly remove stockpiles of combustible material so that the risk of spontaneous combustion is minimised. • Ensure that emplaced waste materials with high proportions of combustible materials are covered regularly to minimise the risk a fire within the landfill cell. • Regularly inspect all residual waste, recyclable material and green waste stockpiles and active landfill cells for fires and any potential fire risks. • Maintain a buffer zone (in the form of an unsealed track road and/or stormwater diversion channel) around the active sections of the Site. • Oxidise gas generated from the putrescible waste using means that does not risk initiating a fire. • Restrict public entry to the Site to identified operating hours and ensure that the Site is staffed during these hours. • Maintain appropriate fire extinguishers and other fire fighting equipment within the Site.	Throughout the life of the Proposal

Table A8.1 (Cont'd)
Statement of Commitments

Desired Outcome	Action	Timing
Management of Visibility	• Establish a tree/visual screen adjacent to the western, southern and eastern boundaries of the Site progressively throughout the life of the Proposal. • Ensure that the waste placement measures identified in Section 2.5.4 are implemented throughout the life of the Proposal, including managing placement of waste and implementation of intermediate covers. • Construct a perimeter fence around the Site prior to the commencement of activities under this Proposal. • Construct and progressively relocated a litter fence around the active landfilling cell(s) throughout the life of the Proposal. • Ensure that waste is placed in the manner described in Section 2.5.4 and that intermediate covers are used as required throughout the life of the Proposal. • Implement a litter inspection program within and surrounding the Site during periods of high winds and collect windblown litter as required.	Throughout the life of the Proposal
Management of Traffic	• Ensure that all Council-related drivers are required to adhere to Bogan Shire Council's "Driver Code of Conduct" during the delivery of materials to the site or transport of materials from the site. • Regularly inspect and clear long grass and bushes that grow on the Canonba Road shoulder to maintain the maximum possible sight distance. • Restrict vehicle speed to 20 km/hr within the Site. • Ensure that public drop-off of materials is be restricted to the nominated operating hours (see Section 2.8.2).	Throughout the life of the Proposal
Management of Heritage	• Follow the unanticipated finds protocol in Appendix 3 of the OzArk (2012) in the event that objects of suspected Aboriginal heritage significance are encountered.	Throughout the life of the Proposal
Management of Soils, Land Capability and Agricultural Suitability	• Implement measures in accordance with EPA Benchmark Technique 28. • Minimise handling of all soils to minimise their structural damage. • Strip topsoils to a depth of approximately 250mm and store in stockpiles no more than 2m high. • Strip subsoil to a depth of approximately 250mm below the base of the topsoil and store in stockpiles no more than 3m in high.	Throughout the life of the Proposal

Table A8.1 (Cont'd)
Statement of Commitments

Desired Outcome	Action	Timing
Management of Soils, Land Capability and Agricultural Suitability (Cont'd)	• Refrain from stripping or placing soils during wet conditions. • Place stripped soils directly onto areas undergoing progressive rehabilitation where practicable. Where that is not practicable, ensure that stripped material is placed neatly and uniformly so that the stockpile does not require further forming prior to establishment of vegetation cover. • Avoid driving of machinery on the topsoil and subsoil stockpiles to minimise compaction and further degradation of soil structure. • Ensure that the formed soil stockpile surfaces have a generally uneven surface that is as 'rough' as possible, in a micro-sense, to assist in surface water runoff control and seed retention and germination. • Sow the soil stockpiles with stabilising groundcover species as soon as practicable after placement and water if necessary to speed up establishment and attain a cover of at least 30%. • Ensure that during soil placement operations soil is placed directly onto a scarified surface without compaction and in correct order, namely topsoil overlying subsoil. • Add, where appropriate, organic matter comprising composted cleared vegetation. • Ensure that soil management procedures are developed in accordance with Landcom (2004).	Throughout the life of the Proposal

This page has intentionally been left blank