

<p>Codes used throughout document: CEMP Construction Environmental Management Plan ENP Environmental Program OCO Operational Control SEP Site Environmental Plan EMP Bell Bay Pulp Mill Environmental Monitoring Plan EMSO Gunns Environmental Management System Operations – ISO14001 NA Not applicable</p>	<p>Status:- Status “Open” this means additional task required before it can be “closed”. Status “Closed” this means that the issue has been addressed in the Construction Environmental Management Plan, Environmental Program, Operational Control or Site Environmental Plan as the case may be. Source Documents:- Draft IIS Volume 4 – Strategic Management Plan and Conclusions. Public Submissions relating to construction. Public Submission heading appears only if submissions received for that aspect.</p>
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PULP MILL SITE

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Groundwater – DIIS P3-33 to P3-36						
Performance Indicator	Groundwater bore monitoring indicates no significant impact to groundwater of the surrounding environment.					
Management Actions	All designs and drawings must comply with the MMP	Design	BBA	NA	Open	Pre construction audit required.
	Dedicated fuel and storage areas that meet the requirements of AS1940 – located away from bores and watercourses. All bunds will contain oily water interceptor.	CEMP Operations	BBA Gunns	OCO EMSO	Closed Open	
	Drip trays and spill kits	CEMP Operations	BBA Gunns	OCO EMSO	Closed Open	
	Designated refuelling areas	CEMP Operations	BBA Gunns	OCO EMSO	Closed Open	
	Sewage and grey water to approved facility	CEMP Operations	BBA Gunns	OCO EMSO	Closed Open	Pulp Mill effluent nutrient source for pulp mill treatment plant.
	Oily water from interceptors managed by licensed waste facility	CEMP Operations	BBA Gunns	OCO EMSO	Closed Open	
Monitoring	Maintain a training register.	CEMP Operations	BBA Gunns	CEMP Sect. 14 EMSO	Closed Open	

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Monitor standing water levels and quality of existing bores.	EMP	Gunns	EMP– Sect. 2.	Closed	
	During construction additional monitoring if suspect of spillage.	EMP	Gunns	EMP – Sect. 2.	Closed	
	All monitoring compared against standards.	EMP	Gunns	EMP – Sect. 2.	Closed	
Surface Water P3-36 to P3-39						
Public Submissions	20,88,301,302,550. These apply to surface water issues for all parts of the construction program.					
Performance Indicator	Surface water quality indicated no significant impacts.					
Management Actions	All designs and drawings must comply with this MP	Design	BBA	NA	Open	Pre construction audit required.
	All potentially contaminated water collected and treated.	CEMP Operations	BBA Gunns	OCO EMSO	Closed Open	
	Same as management actions detailed under groundwater					
	Minimum requirements of Stormwater Management Plan:-					
	Uncontaminated water diverted/segregated from work area runoff.	CEMP only	BBA	OCO	Closed	
	Stormwater detention basins collect site runoff	CEMP only	BBA	OCO	Closed	
During operation overflow from basins release only during 1 in 10 yr storm events.	CEMP only	BBA	OCO	Closed		
Excavated soil stockpiled to minimise release of sediment.	CEMP only	BBA	OCO	Closed		
No stockpiling in vicinity of water courses.	CEMP only	BBA	OCO	Closed		

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Divert excess water away from excavations.	CEMP only	BBA	OCO	Closed	
	Water pumped from excavations to be filtered.	CEMP only	BBA	OCO	Closed	
Monitoring	Regular inspections during construction.	CEMP	BBA	OCO	Closed	
	Surface water monitoring of Tamar and Williams Crk to establish baseline	EMP	Gunns	EMP – Sect 4	Closed	Changed to upstream and downstream monitoring during construction.
	In the event of a spill comprehensive monitoring of the estuary and/or Williams Crk will be required.	CEMP EMP	BBA Gunns	EP EMP – Sect 4	Closed Closed	
	Parameters monitored falling outside of water quality objectives or differ by 10% or more from the baseline samples, will trigger an investigation.	CEMP	Gunns	EMP – Sect 4	Closed	Changed to suspended solid levels in non saline waters downstream of the construction not to exceed 50mg/L - this is based on Vic. guidelines. Upstream and downstream in situ turbidity monitoring will occur during construction.
Air Quality						
P3-40 to 3-41						
Performance Indicator	Air emissions from construction do not significant impacts outside of site boundaries – dust, smoke, fumes.					
Public Submissions	85,105					
Management Actions	All designs and drawings must comply with the MMP	Design	BBA	NA	Open	Pre construction audit required.
	Water sprays dust control	CEMP	BBA	EP	Closed	
	Limit speed to control dust	CEMP	BBA	OCO	Closed	

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Equipment serviced and well maintained to minimise greenhouse emissions.	CEMP	BBA	OCO	Closed	
	Ozone depleting substances not permitted	CEMP	BBA	OCO	Closed	
	Burning waste prohibited except controlled burning of cleared vegetation.	CEMP	BBA	OCO	Closed	
	Earthworks to cease during strong winds.	CEMP	BBA	OCO	Closed	
	Haul truck covered on gazetted roads	CEMP	BBA	OCO	Closed	
Monitoring	Meteorological monitoring will continue to provide data	EMP	Gunns	EMP - Sect 1	Closed	
	Continuous ambient air quality monitoring will continue	Env. Monitoring Plan - Gunns	Gunns	EMP – Sect 1	Closed	
	Visual inspection of work areas/access tracks for dust issues.	CEMP	BBA	OCO	Closed	
Noise P3-41 to P3-43						
Submission	88,105,127,146,182,183,184,185,204,301,396,513,756. Applies to all parts of the construction program.					
Performance indicator	Noise levels do not exceed permit conditions or stated industry practice guidelines.					
Management Actions	All designs and drawings must comply with the MMP	Design	BBA	NA	Open	Pre construction audit required.
	Undertake noise surveys at various locations prior and during construction.	EMP	Gunns	EMP – Sect 1 & 4.	Closed	
	Low noise equipment will be used.	CEMP Operations	BBA EMSO	OCO EMSO	Closed Open	

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Regular equipment maintenance to ensure optimum operation.	CEMP	BBA	OCO	Closed	
	Where appropriate, noise barriers will be erected between sensitive receptors and construction operations	CEMP	BBA	OCO	Closed	
	All plant will be turned off when not in use	CEMP	BBA	OCO	Closed	
	Notify residents in advance of any particularly noisy operations - blasting	CEMP	BBA	OCO	Closed	
	Blasting limited to twice per day.	CEMP	BBA	OCO	Closed	
	Crushing equipment located away from sensitive receptors	CEMP	BBA	OCO	Closed	
	Supply employees with appropriate hearing protection	CEMP Operations	BBA Gunns	OCO EMSO	Closed Open	
Monitoring	Noise monitoring will be carried out continuously	EMP	Gunns	EMP – Sect. 1 & 4.	Closed	
	During construction spot surveys at sensitive locations.	CEMP	BBA	OCO	Closed	
	Additional monitoring will be required during particularly noisy operations.	CEMP	BBA	OCO	Closed	
	Vibration and air blast monitoring will occur during blasting.	Env Mon Plan-Gunns	Gunns	EMP – Section 1 & 4.	Closed	
Erosion Prevention and Sediment Control						
P3-43 to 3-45						
Performance Indicator	Sediment load monitoring and audits indicate no significant impacts from erosion.					
Public Submissions	88,302,550. Applies to all parts of the construction program.					
Management Actions	All designs and drawings must comply with the MMP	Design	BBA	NA	Open	Pre construction audit required.

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Undertake soil and geotechnical assessment (including acid sulphate soils) during detailed design phase.	CEMP	BBA	OCO	Closed	
	Limit total area of disturbance	CEMP	BBA	OCO	Closed	
	Strip and stockpile topsoil	CEMP	BBA	OCO	Closed	
	Areas of no permanent construction place 10 to 15cm layer topsoil to promote revegetation.	CEMP	BBA	OCO	Closed	
	As far as practical land will be progressively disturbed.	CEMP	BBA	OCO	Closed	
	Install erosion control structures	CEMP	BBA	OCO	Closed	
	Design topsoil stockpiles to prevent excessive loss by wind and water erosion.	CEMP	BBA	OCO	Closed	
	Ensure erosion and sediment control measures are constructed in high risk areas.	CEMP	BBA	OCO	Closed	
	Install pre-construction drainage were necessary.	CEMP	BBA	OCO	Closed	
Monitoring	Compaction tests at regular intervals during backfilling – 90 to 110% maintain record of tests	CEMP	BBA	OCO	Closed	
	Photographic record of various stages of construction	EMP	Gunns	EMP Sect. 4.	Closed	
	Monthly site inspections over autumn winter – erosion, rills etc	EMP	Gunns	EMP Sect. 4.	Closed	
Fauna and Flora P3-45 to 3-48						
Performance Indicator	Disturbance to fauna and flora is restricted to footprint areas and adjacent areas are not significantly impacted.					
Public Submissions	37 – pipeline crossing spread of gambusia fish, 132, 178, 192, 214, 258, 264 – burrowing crayfish, 327, 345, 359. Applies to all parts of the construction program.					

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Management Actions	All design and drawings must comply with this MP	Design	BBA	NA	Open	Pre construction audit required.
	Limit clearing to that essential for project	CEMP	BBA	OCO	Closed	
	Locate site yards and project facilities to avoid sensitive habitats.	CEMP	BBA	OCO	Closed	
	Install fencing in areas that are within development footprint but are planned for non-disturbance.	CEMP	BBA	OCO	Closed	
	Design night lights such that they are not directed onto sensitive habitats – limit light spillage as far as possible.	CEMP	BBA	OCO	Closed	
	Rehabilitation of disturbed areas of site, which are not required, to minimise habitat loss.	CEMP	BBA	OCO	Closed	
	Fauna inhabiting area to be allowed to relocate naturally. Educate contractors not to kill snakes.	CEMP	BBA	OCO	Closed	
	Vehicle hygiene entry and exit	CEMP	BBA	OCO	Closed	
	Ongoing ecological assessment to ensure a detailed understanding of local landscape processes.	CEMP	BBA	OCO	Closed	
	Topsoil stripped to be stockpiled separately	CEMP	BBA	OCO	Closed	
	Disturbance of rehabilitated areas will be minimised through fencing.	CEMP	BBA	OCO	Closed	
	Weed management strategy will be developed.	CEMP	BBA	OCO	Closed	
	Revegetation may need the establishment of a seed bank.	CEMP	BBA	OCO	Closed	
Establish extent of phytophthora and wash down facilities.	CEMP	BBA	OCO	Closed		

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Fire Management Strategy to take into account regeneration requirements.	CEMP	BBA	OCO	Closed	
	Where appropriate maintain native herbivore grazing regimes in order to maintain open grass swards.	CEMP	BBA	OCO	Closed	
	Consider establishment of habitat and species offsets	CEMP	BBA	NA	Closed	Dealt with outside of the CEMP
Monitoring	Photographic record pre, during, and post.	EMP	Gunns	EMP – Sect 4.	Closed	
	After construction monthly inspections autumn and winter.	EMP	Gunns	EMP – Sect 4.	Closed	
	Success of natural vegetation assessed by comparison of species pre construction baseline.	EMP	Gunns	EMP – Sect 4.	Closed	
	Development of specific strategies for individual protected species.	EMP	Gunns	EMP – Sect 4.	Closed	

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
General Waste Management						
P 3-48 to 3-50						
Performance Indicator	KPIs for waste recycled, waste re-use and management of site landfills are achieved.					
Management Actions	All designs and drawings must comply with the MMP	Design	BBA	NA	Open	Pre construction audit required.
	Licensed contractor for collection and management of all wastes. – log kept of all wastes produced and recycled.	CEMP	BBA	OCO	Closed	
	Waste management system will follow waste hierarchy.	CEMP	BBA	OCO	Closed	
	Procurement of materials must consider packing materials.	Procurement.	Andritz	Tender document:- Number :- Section :-	Open	Pre construction audit required.
	All waste to be installed in appropriate clearly labelled containers	CEMP	BBA	OCO	Closed	
	Designated waste disposal area at site.	CEMP	BBA	OCO	Closed	
	Waste storage areas not to be located adjacent to surface waters or bores.	Design CEMP	BBA BBA	OCO EP	Closed Closed	Pre construction audit required.
	All personnel to be trained on waste management	CEMP	BBA	CEMP Sect. 14	Closed	
Monitoring	Weekly inspections of storage areas	CEMP	BBA	OCO	Closed	
	Training register	CEMP EMSO	BBA Gunns	CEMP Sect. 14 EMSO	Closed Open	
	Waste log	CEMP	BBA	OCO	Closed	
	Monitoring will be further developed prior to construction- implemented.	EMP	Gunns	EMP Sect2	Closed	

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Hazardous Material Storage and Handling P3-51 to 3-52					
Performance indicator	No significant spills occurred to land or water.					
Management Actions	All designs and drawings must comply with the MMP	Design	Andritz, Chemical and Effluent Plant suppliers.	NA	Open	Pre construction audit required.
	Hazard identification (HAZID) workshops will identify high and extreme risk events.	Design :- Andritz, Chemical and Effluent Plant suppliers.	BBA Gunns	OCO	Closed	Pre construction audit required.
	Fuel storages bunded according AS1940	Design/Construction :- Andritz, Chemical and Effluent Plant suppliers.	BBA Gunns	OCO EMSO	Closed Open	Pre construction audit required.
	Bunded storages must have 110% capacity. Hoses, valves and pipework within bund. Bunds will drain to an interceptor.	Design/Construction :- Andritz, Chemical and Effluent Plant suppliers.	BBA, Andritz and Gunns.	OCO EMSO	Closed Open	Pre construction audit required.
	Storage areas clearly labelled with quantity and characteristic of chemical stored. MSDS sheets will be available.	CEMP EMSO	BBA Gunns	OCO EMSO	Closed Open	

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Spill kits available and personnel appropriately trained.	CEMP EMSO	BBA Gunns	OCO EMSO	Closed Open	
	Procedures for correct handling and use of hazardous substances – and training.	CEMP EMSO	BBA Gunns	OCO EMSO	Closed Open	
	Refueling in designated areas only.	CEMP EMSO	BBA Gunns	OCO EMSO	Closed Open	
	All spills reported to supervisor and, if required, to regulatory authority.	CEMP EMSO	BBA Gunns	OCO EMSO	Closed Open	
Monitoring	Training record.	CEMP EMSO	BBA Gunns	CEMP Sect 14 EMSO	Closed Open	
	Stocktakes of fuel and chemical storage areas to ensure minimum amounts of hazardous materials are stored on site.	CEMP EMSO	BBA Gunns	OCO EMSO	Closed Open	
	Daily site inspections – non compliance and remedial action.	CEMP EMSO	BBA Gunns	OCO EMSO	Closed Open	
Cultural Heritage						
P3-52 to 3-55						
Performance Indicator	No complaints are received relating to cultural heritage from the local or regional communities. Aboriginal heritage is dealt with in accord with the <i>Aboriginal Relics Act 1975</i>					
Public Submissions	3, 234. Applies to all parts of the construction program.					
	The following will be built into Cultural Heritage Management Plan. In event that further sites are located:-	CEMP	BBA Gunns Specialist	OCO	Closed	

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	<p>Cease works immediately within 100 m of the site</p> <p>Contact Aboriginal Heritage Office or Heritage Tas (historic heritage) within 24 hours</p> <p>Assess the characteristics, condition and values of the relics using suitably qualified specialists</p> <p>Arrange site visit by Aboriginal Heritage Office or Heritage Tas (historic heritage)</p>					
	Engage with the Tasmanian Aboriginal Land and Sea Council on assessment and management options, as required					
	Determine appropriate action with Aboriginal Heritage Office or Heritage Tas (historic heritage) and appropriate approval from Minister or Tas Heritage Council.	CEMP	BBA Gunns Specialist	OCO	Closed	
	All site specific management prescriptions and site locations will be incorporated in the management plan.	CEMP	BBA Gunns Specialist	OCO	Closed	
	A reserve will be established in the proposed car park around a recorded site of aboriginal significance.	CEMP	BBA Gunns Specialist	NA	Closed	Dealt with outside the CEMP

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Whilst undertaking works on part of ridge top that contains TASI9896 – monitoring by an Aboriginal Heritage Officer will be required. The area containing TASI 9896 must be subject to further investigation and mitigation actions prior to development of the mill site.	CEMP	BBA Gunns Specialist	OCO	Open	
	Known sites of European and aboriginal cultural significance will be avoided unless otherwise authorised under applicable legislation	CEMP	BBA Gunns Specialist	OCO	Closed	
	Community consultation with TALSC	CEMP	BBA Gunns Specialist	NA	Closed	Dealt with outside the CEMP
	Develop a contingency plan in event previously unknown sites are discovered during construction – include immediate cessation of work - notification of relevant authorities.	CEMP	BBA Gunns Specialist	OCO	Closed	
	Any property or area of land associated with the development of the pulp mill that was not accessed as part of the investigation of Aboriginal heritage conducted for the draft Integrated Impact Statement must be investigated in accord with the Guidelines for the draft Integrated Impact Statement.	CEMP	BBA Gunns Specialist	OCO	Open	

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	The area noted in Vol 3 (6 – 495) of the of the draft Integrated Impact Statement as the “Dune to coastal area” must be subject to further investigation and mitigation actions prior to development of the effluent pipeline. The SEP will detail requirements for the area.	CEMP	BBA Gunns Specialist	OCO	Open	
Social Land Use and Economics						
P3-54 to 3-55.						
Performance	No complaints are received concerning social impacts from the local or regional communities.					
Public Submissions	75,513,756					
	All designs and drawings must comply with the MMP					
	Encourage job applicants from local communities	Pre approval	Gunns	Gunns Executive	Open	Pre construction audit required.
	Facilitate employment opportunities	Pre approval	Gunns	Gunns Executive	Open	Pre construction audit required.
	Alternative access road around working areas	Design	BBA	Documents	Open	Pre construction audit required.
	Siting of new access tracks as far away as possible from sensitive receptors.	Design	BBA	Documents	Open	Pre construction audit required.
	Locate site yard away from residential areas.	Design	BBA	Documents	Open	Pre construction audit required.
	Location and construction of new services will be completed as per the requirements of the service provider and landowner.	Design	BBA	Documents	Open	Pre construction audit required.
	Service providers and users will be advised in advance of the timing and duration of any disruption to services.	CEMP	BBA	OCO	Closed	

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	If required an accommodation facility will be provided	Design	BBA	OCO	Open	Relates to temporary site facilities
	An induction program for non local workers will encourage appropriate integration with the local community.	Following engagement	Gunns			
	On going communication strategy including free phone number will ensure that the local community is kept fully informed.	Prior to construction commencement	Gunns	Communications Plan		
	Lighting orientation designed to minimise glare at high vertical angles.	Design	BBA, Andritz	OCO	Closed	Pre construction audit required.
	Complaints register maintained and reviewed	Construction Operations	BBE EMSO	CEMP Gunns EMS	Closed Open	
Emergency Response P3-57 to 3-58						
Performance Indicator	SHEQ incident statistics indicates no significant spills/emergencies have occurred to land or water.					
Mitigation Actions	HAZID workshops to identify high and extreme risk events (HAZOP)	Design	BBA and Andritz, Chemical Plant	OCO	Closed	Audit required.
	Develop emergency response plan specific to site.	CEMP	BBA	To be developed by JH of Bell Bay Alliance	Open	Audit required
	A site Fire Management Plan will be developed.	CEMP	BBA	OCO	Closed	
	All active sites will have response kits and personnel appropriately trained.	CEMP	BBA	OCO	Closed	
	Dedicated fully trained emergency crew - mill.	Operations	Gunns	EMSO	Open	

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Develop relationship with Bell Bay Industrial Mutual Aid Group - mill.	Operations	Gunns	EMSO	Open	
Monitoring	Record maintained of all personnel who have undergone training	Operations	Gunns	EMSO	Open	
	Daily site inspections will identify any unreported spills	CEMP	BBA	CEMP	Closed	
	Maintain a register of incidents to assist development of trends.	Operations	Gunns	EMSO	Open	
		CEMP	BBA	CEMP	Closed	
		Operations	Gunns	EMSO	Open	
Health Safety Asset						
P 3-59 to 3-60						
Performance	Facilities are designed to reduce the risk to personal to as low as reasonable.					
Management Actions	All designs and drawings must comply with the MMP	Design				
	Trained Emergency Response Crew	CEMP	BBA	Emergency Response Plan	Open	Developed by Safety Manager – BBA.
		Operations	Gunns	EMSO	Open	Developed by Safety Manager – Gunns.
	HAZID workshops – high and extreme events potential fatality in relation to accident events.	Operations	Gunns	EMSO	Open	HAZID workshops have yet to be carried out. Audit required
	Design to appropriate standards	Design and CMP				
	Installation guards	Design / Operations	Gunns	Tender documents call for construction to all Aust. Standards.	Open	Pre construction audit required.
Provision of PPE	Operations	Gunns	Gunns Safety System	Open	Will be resolved before commencement of operations.	

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Adherence to government risk warnings and management guidelines.	Design and CEMP	Andritz and BBA	Tender documents call for construction to all Aust. Standards.	Open	Pre construction audit required.
	Designs to consider natural hazards – fires and floods.	Design	Andritz and BBA	Design documents	Open	Pre construction audit required.
	Design to include risk assessment for commissioning phase.	Design	Andritz and BBA	Design documents	Open	Pre construction audit required.
	Design of plant to reduce risk of dropped objects	Design	Andritz and BBA	Design documents	Open	Pre construction audit required.
	Design to reduce potential ignition sources – near combustible, flammable or explosive areas.	Design	Andritz and BBA	Design documents	Open	Pre construction audit required.
	Appropriate vehicle speeds.	Design and CEMP, Operations	BBA, Gunns	OCO EMSO	Closed Open	
	Review of road corridor undertaken to identify additional signage requirements.	CEMP	BBA			
	Risk flyrock from blasting could cause damage to nearby transmission cables – implement controls.	CEMP	BBA	SEP	Open	To be prepared
Monitoring	A monitoring program will be developed pre construction					

WHARF

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Groundwater P 3-61 to 3-63						
Management Actions, Performance and Monitoring	The management actions are identical to the mill site					
Surface Water P 3-64						
Public Submissions	20,32,302					
Management Actions and Performance	These actions are identical to the mill site					
Monitoring	Monitoring Tamar Estuary prior to construction.	EMP	Gunns	EMP Sect. 4.	Closed	Changed to monitoring throughout construction upstream, at construction zone, and downstream.
	Monitoring Tamar estuary at least monthly during construction.	EMP	Gunns	EMP Sect. 4.	Closed	Changed to risk based monitoring.
	Additional monitoring after spill or rain event.	EMP	Gunns	EMP Sect. 4.	Closed	Changed to risk based monitoring
Air Quality P 3-67 to 3-68						
Management Actions Performance, and Monitoring	These actions are identical to the mill site					
Noise P3-69 to 3-70						
Management Actions Performance.	As per mill site					

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Management Actions - Other	Pile driving where practicable sonic or vibration piles will be used instead of impact piling.	Design	BBA	Tender Doc.	Open	An audit required
	Establish direct line of communication with aquaculture farm.	CEMP	Bell Bay Alliance	Site Specific plan	Open	
Monitoring	These actions are identical to the mill site					
Erosion and Sediment Control P3-71 to 3-72						
Management Actions and Performance	These actions are identical to the mill site					
Management Actions - Other	Reclamation area will be kept above average low tide mark	Site Specific Plan	Bell Bay Alliance	SEP	Open	To be prepared
	A rock bund will first be constructed around perimeter of reclamation area to contain disturbed sediments.	Site Specific Plan	Bell Bay Alliance	SEP	Open	To be prepared
	Design for complete suspended structure on piles so that hydrodynamic conditions arising from construction are unlikely to cause erosion either up or down stream.	Site Specific Plan	Bell Bay Alliance	SEP	Open	To be prepared
	Stabilise banks of Tamar River within the development footprint.	Site Specific Plan	Bell Bay Alliance	SEP	Open	To be prepared
Monitoring	As per mill site.					
Monitoring - Other	Assess scouring and erosion assoc. with structure. Annual survey – diving inspection of estuary bottom around wharf.	EMP	EnviroGulf	Book D P25 Appendix 3	Open	Aquenal to update Appendix 14 Ecological Monitoring Plan assoc with Bell Bay Pulp Mill Env Monitoring Program to include this requirement

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Suspended solid plumes during construction and Impact on dissolved oxygen levels: (a) <i>In situ</i> turbidity and dissolved oxygen measurements (when visual turbidity around the activity) radiating out from the activity.	EMP	EnviroGulf	Book D P45 Appendix 3 EMP Section 4.	Closed	
	Low potential for nutrient release however plan during construction to:- (a) On three occasions water samples shall be collected in the turbid plume and at a remote non turbid location both filtered (0.45micron) and analysed for : ❖ Total phosphorus ❖ Total oxidizable nitrogen (NO ₃ , NO ₂) ❖ Ammonia ❖ Total phosphorus ❖ Reactive phosphorus	EMP	EnviroGulf	Book D P46 Appendix 3 EMP Sect. 4.	Closed	
	Low potential for disturbance of arsenic, nickel, mercury, in sediments during construction activities:- Collect samples as above and analyse for total and dissolved levels of arsenic, nickel, and mercury	EMP	EnviroGulf	Book D P50 Appendix 3 EMP Sect 4	Open	
	Colonisation of pacific oysters and algae on wharf structures:- Annual monitoring associated with marine pest surveys will assess rate of colonisation	EMP	EnviroGulf	Book D P58 & 61 Appendix 3 EMP Appendix 14	Open	Aquenal to update Appendix 14 Ecological Monitoring Plan to include this requirement

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Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Assess long term impact on sea grass beds: Annual monitoring detailed above will assess this.	EMP	EnviroGulf	Book D P58 Appendix 3 Bell Bay Pulp Mill Env. Mon. Program Appendix 14	Open	Aquenal to update Appendix 14 Ecological Monitoring Plan to include this requirement
	Potential impact of marine pests or invasive species: Annual marine pest monitoring program.		EnviroGulf	Book D P45 Appendix 3 Appendix 3 Bell Bay Pulp Mill Env. Mon. Program Appendix 14	Open	Aquenal to update Appendix 14 Ecological Monitoring Plan to include this requirement
	Cetacean spotting.	CEMP	EnviroGulf BBA	Book D P82 Appendix 3 Site Specific Plan	 Open	To be prepared
Terrestrial Flora and Fauna						
Management Action, Performance, Monitoring	As per mill site.					
Marine Offshore Flora and Fauna						
Management Actions - Other	Where practicable piling and shoring activities are to be undertaken outside times of ecological significance.	CEMP	BBA	SEP	Open	To be prepared
	Crew educated in management of fauna. Fishing prohibited off wharf.	CEMP	BBA	SEP	Open	To be prepared

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Night lights may disorientate sea birds – design lights to reduce impact.	CEMP & Operations	BBA EMSO	Public Submission RPDC 756 SEP	Open	To be prepared An audit required
	No blasting will be undertaken as part of pile driving activity – air curtains will be considered.	CEMP	Design & Gunns Bell Bay Alliance.	Public Submission RPDC 146, 756 – disturbance of sediment, noise SEP	Open	To be prepared
	All ships will comply with AQIS.	CEMP & Operations	Bell Bay Alliance and Gunns Operations	OCO EMSO	Closed	
Monitoring - Other	Implement benthic monitoring before and after construction	Bell Bay Pulp Mill Env. Mon. Program	Gunns/Aquenal	EP Appendix 14 Page 7 to 8.	Developed	
	Marine pest program developed to establish baseline of pests already present.	Bell Bay Pulp Mill Env. Mon. Program	Gunns/Aquenal	EP Appendix 14 Page 7 to 8.	Developed	
General Waste Management P 3-76 to 3-78						
Performance, Management Actions, Monitoring	As per mill site.					
Hazardous Materials P3-78 to 3-79						
Performance, Management Actions, Monitoring	As per mill site					

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Cultural Heritage Sites P3-80 to 3-81						
Management Actions, Performance, Monitoring	As per mill site					
Social and Economics P3-81 to 3-82						
Performance, Management Actions, Monitoring.	As per mill site					
Management Action - Other	All ships will adhere to current AQIS procedures.	CEMP Operations	BBA Gunns	EP EMSO	Closed Open	
Emergency Response P3-83 to 3-84						
Performance, Management Actions, Monitoring	As per mill site					
Management Actions -Other	Develop plan specific to wharf.	CEMP Operations	CEMP Gunns	EP EMSO	Open Open	
Health Safety Asset P3-84 to 3-85						
Performance, Management Actions, Monitoring	As per mill site					

LANDFILL, QUARRY, LOCAL WATER SUPPLY

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Groundwater P 3-86 to 3-87						
Public Submissions	33					
Management Actions	As per mill site					
Management Actions - Other	Landfill constructed with HDPE liner, cutoff interceptor trenches to intercept clean rainwater.	Design	BBA	Design Documents	Open	An audit required
Monitoring	Monitor existing groundwater water bores – quality/level.	EMP	Gunns	EMP Sect 2.	Closed	
	Additional monitoring in the event of a spill.	EMP	Gunns	EMP Sect 2.	Closed	
Surface Onshore Water Quality P 3-89 to 3-92						
Performance, Management Actions, Moitoring	As per mill site					
Management Actions - Other	Timing of jetting to coincide with first 2/3 of outgoing tide.	CEMP	BBA	SEP	Open	To be prepared
Monitoring - Other	Sampling of particle size of river bed required for: ❖ WBM Model ❖ Assess fate nutrients, metals	CEMP EMP	BBA – to arrange model work	EMP Sect. 4. SEP	Closed Open	To be prepared WBM have provided a preliminary quote for this work.
	Assessment of dissolved oxygen, nutrients and metals	EMP	Gunns	EMP Sect. 4.	Closed	

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Baseline monitoring of ephemeral streams has commenced. Given the ephemeral nature of the stream water quality will only occur after a spill incident.	CEMP Operations	BBA Gunns	EMP Sect. 3 & 4.	Closed	To date no monitoring of pipeline water course crossing because no flow since Jan 2007.
Air Quality P3-92 to 3-93						
Performance, Mitigation Actions, Monitoring	As per mill site					
Noise P3-93 to 3-94						
Performance, Mitigation Actions, and Monitoring	As per mill site					
Mitigation Actions - other	Crushing equipment will be located away from sensitive receptors.	Design and CEMP	Bell Bay Alliance	OCO	Closed	
Monitoring - other	Due to lack of sensitive receptors in vicinity of landfill site (and quarry) noise monitoring is not considered necessary.	NA	NA	NA	NA	NA
	Targeted noise surveys in event of complaints.	CEMP	Gunns	OCO	Closed	
Erosion Prevention and Control P3-95 to 3-97						
Performance, Management Actions, Monitoring	As per mill site.					

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Terrestrial Flora and Fauna P3-97 to 3-99						
Performance, Management Actions, Monitoring	As per mill site					
General Waste Management P3-100 to 3-101						
Performance, Management Actions, Monitoring	As per mill site					
Management Actions - other	Truck carrying waste to landfill, subject to nature of waste, will be covered.	CEMP	BBA	OCO	Closed	
Hazardous Materials Storage and Handling P3-101 to 3-103						
Performance, Management Actions, Monitoring	As per mill site					
Cultural Heritage P3-103 to 3-104						
Performance, Management Actions, Monitoring	As per mill site					
Social Land Use and Economics P3-105 to						
Performance, Management Actions, Monitoring	As per mill site					

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Management Actions - other	The landfill site will not be permanently manned	Operations	Gunns	EMSO	Open	
	Public safety – leachate collection facilities will be fenced.	Operations	Gunns	EMSO	Open	
	Vehicular access by swipe card.	Operations	Gunns	EMSO	Open	
	No clearing of vegetation or infrastructure located on ridge crests	CEMP	BBA	SEP	Open	To be prepared
Emergency Response						
P3-105 to 3-107						
Performance, Management Actions, Monitoring	As per mill site					
Health Safety and Asset						
P3-107 to 3-108						
Performance, Management Actions, Monitoring						

WATER SUPPLY PIPELINE

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Groundwater Quality						
P3-109 to 3-111						
Management Actions	As per mill site					
Management Actions - Other	In areas where pipeline trench may intercept the water table it may be necessary to install clay plugs or similar at regular intervals to prevent the pipeline acting as a preferential pathway for groundwater flow – ditto if it passes through contaminated land.	CEMP	Gunns Bell Bay Alliance	OCO	Closed	
	No groundwater abstraction permitted for construction of water supply pipeline, this is inclusive of hydrotesting.	CEMP	Gunns Bell Bay Alliance	OCO	Closed	
Monitoring	Surface water baseline monitoring of all watercourse crossings - as a minimum it will be analysed for pH, total suspended solids(turbidity), hydrocarbons	EMP	Gunns	EMP Sect. 4.	Closed	Changed to <i>in situ</i> monitoring upstream and downstream during construction and when water courses flowing, hydrocarbon monitoring only after a spill.
	During construction of the Tamar Estuary crossing weekly monitoring will be implemented.	EMP	Gunns	EMP Sect. 4.	Closed	The frequency of monitoring increased to daily during jetting operations.
	Additional analyses will occur after a significant rain event – linear infrastructure.	EMP	Gunns	EMP Sect. 4.	Closed	If <i>in situ</i> monitoring shows a difference in turbidity upstream and downstream then samples for suspended solids shall be collected.

Air Quality P3-115 to 3-117						
Performance, Management Actions, Monitoring	As per mill site					
Noise P3-117 to 3-118						
Performance, Management Actions, Monitoring	As per mill site					
Erosion Prevention and Sediment Control P3-118 to 3-120						
Performance, Management Actions, Monitoring	As per mill site					
Terrestrial Flora and Fauna P3-120 to 3- 122						
Performance, Management Actions, Monitoring	As per mill site					
Crayfish and gambusia – public submission 37 and 264	Design crossings to accommodate issue with migration of <i>Gambusia</i> and burrowing crayfish issues.	CEMP	BBA	SEP	Open	To be prepared
General Waste Management P3-123 to 3-124						
Performance, Management Actions, Monitoring	As per mill site					

Hazardous Materials Storage Handling						
P3-125 to 3-126						
Performance, Management Actions, Monitoring	As per mill site					
Cultural Heritage						
P3-127 to 3-128						
Performance, Management Actions, Monitoring	As per mill site					
Management Actions - Other	Route pipeline to avoid 3 known sites of aboriginal significance. If avoidance not possible work with Abor Heritage Officer.	CEMP	BBA	Design SEP	Open Open	To be prepared
	Monitoring by Abor Heritage Officer when working between Coulsons and Station Creek at Dilston.	CEMP	BBA	SEP	Open	To be prepared
Social, Land Use and Economics						
Performance, Management Actions, Monitoring	As per mill site					
	Existing sealed roads will be crossed using non open cut technique.	Design	BBA	Design Documentss OCO	Open Closed	Pre construction audit required.
	Fence off working areas to ensure farmers and livestock do not access works.	CEMP	BBA	OCO	Closed	
	Restrict blast times to have minimal impact on the community.	CEMP	BBA	OCO SEP	Closed Open	
	Inform residents of blasting events	CEMP	BBA	OCO	Closed	

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

	Pipeline alignment restored close as possible to pre construction to support original or similar land use except easement which must remain clear of medium to tall woody vegetation.	CEMP	BBA	OCO SEP	Closed Open	
Monitoring	A monitoring program will be developed prior to construction.	CEMP	BBA	To be developed.	Open	
Emergency Response						
P3-130 to P3-131						
Performance, Management Actions, Monitoring	Same as pulp mill.					
Health, Safety and Asset						
P3-131 – P3-132						
Performance, Management Actions, Monitoring	Same as pulp mill.					
Management Actions - other	Marker posts will be installed at regular intervals and registered with Dial-B-4-U-Dig.	CEMP	BBA	OCO SEP	Closed Open	

EFFLUENT PIPELINE AND OCEAN OUTFALL

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Groundwater Quality P1-133 to 1-135						
Performance, Management Actions, Monitoring	Same as pulp mill					
Management Actions - Other	As far as practicable trenching in the swales between sand dunes shall be undertaken during dry months to prevent influx of saline water into freshwater groundwater.	CEMP	BBA	SEP	Open	To be prepared
Monitoring - Other	Groundwater monitoring will only be undertaken if reason to suspect a spill.	EMP	Gunns	EMP Sect 2	Closed	
Surface Onshore Water Quality- P1-136 to P3-139						
Performance, Management Actions, Monitoring	Same as pulp mill					
Monitoring - other	Surface water baseline monitoring of all watercourse crossings - as a minimum it will be analysed for pH, total suspended solids(turbidity), hydrocarbons	EMP	Gunns	EMP Sect 2	Closed	Changed to upstream, at construction site, and downstream monitoring during construction only. Hydrocarbon monitoring only if a spill has occurred.
	During construction water quality at crossings only after significant rain events or potential contamination.	EMP	Gunns	EMP Sect 2	Closed	Refer above
	At completion of construction all crossing to be monitored.	EMP	Gunns	EMP Sect 2	Closed	
Marine Offshore Water Quality P3-139 to P3-142						

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Management Actions	All design and drawings will comply with this EMP					
	Ensure diffuser is away from existing fixed installations and identified ecologically sensitive areas.	Design	BBA	Design documents	Open	An audit required.
	Low toxicity additives, if required, will be used for hydrotesting	CEMP	BBA	OCO	Closed	
	A excavated material management plan shall be prepared. Excavated material will be placed as near as possible to the pipeline trench and used to cover the trench.	CEMP	BBA	OCO	Closed	
	Excavation works in Donovans Bay that have the potential to result in mobilisation of sediments will be carried out in the first 2/3 of outgoing tides.	CEMP	BBA	SEP	Open	To be prepared
	Liaise with Rice Grass Advisory Group re advice on rice grass management in Donovans Bay	CEMP	EnviroGulf	Book D P 34. SEP	Open Open	
	Discharge of wastes from pipe laying vessel into Bass Strait prohibited.	CEMP	BBA	SEP	Open	To be prepared
	Ballast sludge will not be discharged at sea.	CEMP	BBA	SEP	Open	To be prepared
	Monitor sediment samples along the length of proposed outfall pipeline for arsenic, cadmium, copper, chromium, lead, mercury, nickel and zinc.	EMP	EnviroGulf	Book D P 37.	Closed	
	Monitor benthic recovery along outfall easement.	EMP	EnviroGulf	Book D P 43.	Closed	

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Monitor populations of screw shell along outfall easement	EMP	EnviroGulf	Book D P 48.	Closed	
	If screw shells present then design a relocation strategy	EMP CEMP	EnviroGulf	Book D P 48 SEP	Closed Open	To be prepared
	Visual monitoring of cetaceans – whales.	CEMP	EnviroGulf	Book D P 58. SEP	Closed Open	To be prepared
	<p>Pipelaying vessel will be equipped with spill response gear (including floating boom, skimmers, and absorbent materials) which will be used to contain a spill.</p> <ul style="list-style-type: none"> • Use of dispersants prohibited unless directed by an oil spill response expert. • All crew will be trained in oil spill response • Drip trays will be used under all fixed plant on the pipe laying vessel. 	CEMP	BBA	OCO	Closed	
Monitoring	<p>Marine water quality prior to commissioning as a baseline measurement, monthly during construction activities, and upon completion of construction.</p> <p>Minimum parameters measured during construction – hydrocarbons, total suspended solids,</p>	CEMP	Gunns	EP	Closed	Changed to monitoring pH, salinity, turbidity, and dissolved oxygen before and during construction. Hydrocarbons will only be monitored if a spill occurs. Metals and nutrients will be monitored in the suspended plume if it occurs.
Air Quality						
P3-142 to P3-143						

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Performance, Management Actions, Monitoring	Same as mill site.					
Management Actions - other	Natural revegetation may be enhanced by the use of targeted seeding programs in areas of high risk of wind erosion eg dune systems	CEMP	BBA	SEP	Open	To be prepared
Monitoring - other	Visual inspection of work areas and access tracks - dusting	CEMP	BBA	OCO	Closed	
	Community liaison	CEMP	BBA	Communications Plan	Closed	
Noise						
P3-144 to P3-145						
Performance, Management Actions, Monitoring	Same as mill site					
Management Actions - other	Noise may affect marine fauna and birds					
	As far as practicable construction will avoid sensitive seasons such as shark pupping.	Design	BBA	Planning	Open	Pre construction audit required.
Monitoring	Complaint driven	CEMP	BBA	OCO	Closed	
Erosion Prevention and Sediment Control						
P3-146 to 3-147						
Performance, Management Actions, Monitoring	Same as mill site					
Terrestrial Flora and Fauna						
P3-148 to 3-150						

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
Performance, Management Actions, Monitoring	Same as mill site					
Marine Offshore Flora and Fauna P3-150 to 3-151						
Performance, Management Actions, Monitoring	Same as mill site					
Monitoring - Other	Benthic fauna/flora monitoring before and after construction	CEMP	Gunns	SEP	Open	To be prepared
General Waste P3-151 to 3-153						
Performance, Management Actions, Monitoring	Same as pulp mill.					
Hazardous Material Storage and Handling						
Performance, Management Actions, Monitoring	Same as pulp mill					
Social Land Use and Economics P3-157 to 3-158						
Performance, Management Actions, Monitoring	Similar to pulp mill					
Management Actions - other	Railway line will be crossed using non open cut technique – with design to be agreed by the rail operator.	Design	BBA	Design Documents OCO	Open Closed	Pre construction audit required.

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Obligations	Summary of requirements	Stage	Responsibility	EP, SEP, EMP	Status	Status Comments
	Marine users (including aquaculture, recreational users, environmental monitoring groups) will be informed in advance of construction	CEMP	BBA	SEP	Open	To be prepared
Emergency Response P3-159 to 3-160						
Performance, Management Actions, Monitoring	Similar to pulp mill					
ACCOMMODATION FACILITY –Site Environmental Plan prepared						

SUMMARY OF AUDIT OBLIGATIONS

Issue	Stage	Responsibility	System	Status	Comments
All designs and drawings must comply with project approval conditions	Design	BBA	General	Open	Pre construction audit required.
Procurement of materials must consider packing materials.	Procurement.	Andritz	OCO	Closed	Pre construction audit required.
Waste storage areas not to be located adjacent to surface waters or bores.	Design CEMP	BBA BBA	Documents OCO	Open Closed	Pre construction audit required.
Waste storage areas not to be located adjacent to surface waters or bores.	Design CEMP	BBA BBA	Documents OCO	Open Closed	Pre construction audit required.
Hazard identification (HAZID) workshops will identify high and extreme risk events.	Design :- Andritz, Chemical and Effluent Plant suppliers.	BBA Gunns	HAZID Workshops to be scheduled.	Open	Pre construction audit required.
Fuel storages banded according AS1940	Design/Constr uction :- Andritz, Chemical and Effluent Plant suppliers.	BBA Gunns	OCO EMSO	Closed Open	Pre construction audit required.
Banded storages must have 110% capacity. Hoses, valves and pipework within bund. Bunds will drain to an interceptor.	Design/Constr uction :- Andritz, Chemical and Effluent Plant suppliers.	BBA, Andritz and Gunns.	OCO EMSO	Closed Open	Pre construction audit required.
Encourage job applicants from local communities	Pre approval	Gunns	Gunns Executive	Open	Pre construction audit required.
Facilitate employment opportunities	Pre approval	Gunns	Gunns Executive	Open	Pre construction audit required.

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Alternative access road around working areas	Design	BBA	Documents	Open	Pre construction audit required.
Siting of new access tracks as far away as possible from sensitive receptors.	Design	BBA	Documents	Open	Pre construction audit required.
Locate site yard away from residential areas.	Design	BBA	Documents	Open	Pre construction audit required.
Location and construction of new services will be completed as per the requirements of the service provider and landowner.	Design	BBA	Documents	Open	Pre construction audit required.
Lighting orientation designed to minimise glare at high vertical angles.	Design	BBA, Andritz	OCO	Closed	Pre construction audit required.
HAZID workshops to identify high and extreme risk events (HAZOP)	Design	BBA and Andritz, Chemical Plant	OCO	Closed	Audit required.
HAZID workshops – high and extreme events potential fatality in relation to accident events.	Operations	Gunns	EMSO	Open	HAZID workshops have yet to be carried out. Audit required
Installation guards	Design/Operations	Gunns	Tender documents call for construction to all Aust. Standards.	Open	Pre construction audit required.
Adherence to government risk warnings and management guidelines.	Design and CEMP	Andritz and BBA	Tender documents call for construction to all Aust. Standards.	Open	Pre construction audit required.
Designs to consider natural hazards – fires and floods.	Design	Andritz and BBA	Design documents	Open	Pre construction audit required.
Design to include risk assessment for commissioning phase.	Design	Andritz and BBA	Design documents	Open	Pre construction audit required.
Design of plant to reduce risk of dropped objects	Design	Andritz and BBA	Design documents	Open	Pre construction audit required.
Design to reduce potential ignition sources – near combustible, flammable or explosive areas.	Design	Andritz and BBA	Design documents	Open	Pre construction audit required.

CEMP APPENDIX F ENVIRONMENTAL COMMITMENTS REGISTER

Pile driving where practicable sonic or vibration piles will be used instead of impact piling.	Design	BBA	Tender Doc.	Open	An audit required
Night lights may disorientate sea birds – design lights to minimise impact.	CEMP & Operations	BBA EMSO	SEP	Open	An audit required
Landfill constructed with HDPE liner, cutoff interceptor trenches to intercept clean rainwater.	Design	BBA	Design Documents OCO	Open Closed	An audit required
Existing sealed roads will be crossed using non open cut technique.	Design	BBA	Design Documents	Open	Pre construction audit required.
Ensure diffuser is away from existing fixed installations and identified ecologically sensitive areas.	Design	BBA	Design Documents	Open	An audit required.
As far as practicable construction will avoid sensitive seasons such as shark pupping.	Design	BBA	Planning	Open	Pre construction audit required.
Railway line will be crossed using non open cut technique – with design to be agreed by the rail operator.	Design	BBA	Design Documents OCO	Open Closed	Pre construction audit required.

SUMMARY OF SITE ENVIRONMENTAL PLAN ISSUES

SITE ENVIRONMENTAL PLANS – ISSUES TO BE COVERED – BY ACTIVITY	
Pulp Mill Site	Risk flyrock from blasting could cause damage to nearby transmission cables – implement controls.
Wharf	Reclamation area will be kept above average low tide mark
	A rock bund will first be constructed around perimeter of reclamation area to contain disturbed sediments.
	Design for complete suspended structure on piles so that hydrodynamic conditions arising from construction are unlikely to cause erosion either up or down stream.
	Stabilise banks of Tamar River within the development footprint.
	Where practicable piling and shoring activities are to be undertaken outside times of ecological significance.
	Crew educated in management of fauna.
	Fishing prohibited off wharf.
	Night lights may disorientate sea birds – design lights to minimise impact.
	Benthic fauna/flora monitoring before and after construction
	Marine users (including aquaculture, recreational users, environmental monitoring groups) will be informed in advance of construction
No blasting will be undertaken as part of pile driving activity – air curtains will be considered.	
Tamar River Crossing	Timing of jetting to coincide with first 2/3 of outgoing tide.
	Sampling of particle size of river bed required for:- <ul style="list-style-type: none"> • WBM Model • Assess fate nutrients, metals
Landfill Quarry	Crushing equip. will be located away from sensitive receptors.
	No clearing of vegetation or infrastructure located on ridge crests
Linear Infrastructure-effluent and water supply pipeline.	In areas where pipeline trench may intercept the water table it may be necessary to install clay plugs or similar at regular intervals to prevent the pipeline acting as a preferential pathway for groundwater flow – ditto if it passes through contaminated land.
	No groundwater abstraction permitted for construction of water supply pipeline, this is inclusive of hydrotesting.
	Design crossings to accommodate issue with migration of <i>Gambusia</i> and burrowing crayfish issues.

Linear Infrastructure-effluent and water supply pipeline (cont)	Route pipeline to avoid 3 known sites of aboriginal significance. If avoidance not possible work with Aboriginal Heritage Officer.
	Monitoring by Aboriginal Heritage Officer when working between Coulsons and Station Creek at Dilston.
	Restrict blast times to have minimal impact on the community.
	Pipeline alignment restored close as possible to pre construction to support original or similar land use except easement which must remain clear of medium to tall woody vegetation.
	Marker posts will be installed at regular intervals and registered with Dial-B-4-U-Dig.
	As far as practicable trenching in the swales between sand dunes shall be undertaken during dry months to prevent influx of saline water into freshwater groundwater.
	Low toxicity additives, if required, will be used for hydrotesting
	A excavated material management plan shall be prepared. Excavated material will be placed as near as possible to the pipeline trench and used to cover the trench.
	Excavation works in Donovans Bay that have the potential to result in mobilisation of sediments will be carried out in the first 2/3 of outgoing tides.
	Consult with Rice Advisory Group for advice re Donovans Bay
	Discharge of wastes from pipe laying vessel into Bass Strait prohibited.
	Ballast sludge will not be discharged at sea.
	If screw shells present then design a relocation strategy
	Visual monitoring of cetaceans – whales.
	<p>Pipelaying vessel will be equipped with spill response gear (including floating boom, skimmers, and absorbent materials) which will be used to contain the spill.</p> <ul style="list-style-type: none"> • Use of dispersants prohibited unless directed by an oil spill response expert. • All crew will be trained in oil spill response • Drip trays will be used under all fixed plant on the pipe laying vessel.
Natural revegetation may be enhanced by the use of targeted seeding programs in areas of high risk of wind erosion eg dune systems	

Revision Status

Revision	Date	Revision Description	Prepared	Reviewed	Approved
B-00	April 2007	Issued for internal review	RVD	IW	
B-01	May 2007	Issued for internal review	RF	IW	
B-02	May 2007	Issued for DTAE review	RVD		JC
B-03	31 Oct 2007	Issued for DTAE approval	IW	JD	JC
B-04	30 Jan 2008	Issued for DTAE approval	IW	JD	CF