

These tables set out the operational controls required to achieve the objectives and targets set out in Environmental Program 16 Spill Management. BBA will, as a minimum, implement the control activities and performance measures set out below.

Table OCO 7.1 Storage and Use of Hazardous Materials, Fuels and Lubricants

Table OCO 16.1 Spill Management

Table OCO 16.1 Spill Management

Ref	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
INDUCTION AND TRAINING							
1.	Design Consultant Briefing	CEMP 10	The Design Consultants will be briefed on the design aspects of this Control Document	Design Director	Prior to start of design	Briefing record	
2.	Project and site induction	CEMP 13	All employees, consultants and subcontractors involved will be inducted into the environmental aspects and controls related to this Control Document.	Construction Director or Project Manager, as applicable Start up Manager for Early Works	Prior to personnel commencing work on site	Induction records	
3.	Staff Construction Environmental Management Plan induction	CEMP 13	All relevant staff will be inducted into the requirements of the Construction Environmental Management Plan and all associated documents.	Construction Director or Project Manager, as applicable	Prior to staff commencing work on site	Induction records	
4.	Briefings	CEMP 13 CEMP 14	Environmental briefings shall emphasize site-specific spill response requirements.	General Superintendent	Prior to working in a specific area	Record of Briefing (eg SEP Briefing)	

Ref	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
DESIGN							
5.	Design to minimise spill risk	Project Requirement	Where practicable design to minimise the risk of construction spills causing impacts on sensitive flora and fauna.	Design Director	Design of Permanent Works	Impact on flora and fauna avoided	
PRE-CONSTRUCTION							
6.	Spill response coordinator	Project Requirement	Nominate a BBA Spill Response Coordinator and deputy and ensure that they undertake appropriate spill response training	Environmental Manager	Prior to construction	Training records	
7.	Advise Port of Launceston	Project Requirement	Advise the spill response officer at the Port of Launceston of spill contingency measures and establish communication pathways for spill response	Environmental Manager	Prior to construction	Communication channels determined	
8.	Equipment availability	Project Requirement	Spill response equipment described in Attachment 1 will be stored on site throughout the construction period and following completion of construction, with existing National Oil Spill Plan equipment at a location to be determined in consultation with DTAE.	Environmental Manager	Prior to construction	Inspection records	
9.	Storage facilities	LU1, Part 3, Sect 2, 2HZ1.1, pg 91, (Seq pg 104) LU 1, Part 3, Sect 2, 2HZ2.1, pg 92, (Seq pg105) LU2, Part 3, HZ1.1, pg 21, (Seq pg 235)	All storage facilities for environmentally hazardous liquids greater than 250 L will be bunded to at least 110% capacity of the largest container and at least 25% of the total volume.	General Superintendent	Design of construction sites	Inspection records	
CONSTRUCTION							
10.	Design to minimise spill risk	Project Requirement	Design construction sites to minimise the risk of construction spills causing impacts on sensitive flora and fauna.	General Superintendent	Design of construction sites	Impact on flora and fauna avoided	
11.	Identify deployment locations	Project Requirement	In consultation with the spill response officer of the Port of Launceston, identify locations where spill response personnel will be deployed in the event of a spill.	Environmental Manager	Prior to construction	Sites identified	

OPERATIONAL CONTROLS 16 SPILL MANAGEMENT

Ref	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
12.	Display spill response procedures	Project Requirement	Display the response procedures described in Attachment 1 at likely places where response personnel will be deployed.	General Superintendent	During construction	Inspection records	
13.	Implement spill response procedures	Project Requirement	In the event of a spill, implement the response procedures described in Attachment 1.	General Superintendent	During construction	Incident records	

INCIDENTS

14.	Potential environmental harm	CEMP incident response procedures	<p><i>Class 1: An actual adverse effect on the health or safety of human beings that is of a high impact or on a wide scale; an actual adverse effect on the environment that is of a high impact or on a wide scale; an actual loss or property damage of an amount, or amounts in aggregate, exceeding ten times the threshold amount (\$5,000); an environmental nuisance of a high impact or on a wide scale; an actual adverse effect on the health or safety of human beings that is not negligible; an actual adverse effect on the environment that is not negligible - cease relevant activities across all sites until the problem is fully understood and rectified; follow incident response procedures</i></p> <p><i>Class 2: The emission of a pollutant that unreasonably interferes with, or is likely to unreasonably interfere with, a person's enjoyment of the environment; any emission specified in an environment protection policy to be an environmental nuisance; an actual loss or property damage of an amount, or amounts in aggregate, exceeding the threshold amount (\$5,000) - cease relevant activities at the site of occurrence until the problem is rectified; follow incident response procedures</i></p>	Environmental Manager	Ongoing	Incident response records	
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Ref	Subject	Reference	Control Activity	Responsibility	Timing	Performance Measure	Audit Check
15.	Potential permit breach	CEMP incident response procedures	<p><i>Class A: A permit condition has been breached and either the environmental consequences are significant or the breach is due to a wilful or negligent failure to attempt to satisfy the condition – cease relevant activities across all sites until the problem is fully understood and rectified; follow incident response procedures</i></p> <p><i>Class B: A permit condition has been technically breached but the intent of the condition has been or will be achieved and environmental consequences of the breach are not significant – cease relevant activities at the site of occurrence until the problem rectified; follow incident response procedures</i></p> <p><i>Class C: Compliance with the permit has been raised as an issue but the intent and requirements established by the permit condition have been met – examine the significance and potential for corrective action; follow incident response procedures</i></p>	Environmental Manager	Ongoing	Incident response records	
EVALUATING PERFORMANCE							
16.	Inspection	CEMP 16	Inspect spill response equipment and the display of the response procedures.	Site Environmental Officer	Daily	Weekly checklist	
17.	Reporting	CEMP 17	Report on the implementation of this EP in the environmental section of the monthly Project Report.	Environmental Manager	Ongoing	Monthly Report	
18.	Assess monitoring results	CEMP 19	Evaluate and assess monitoring results against specified targets	Environmental Manager	Ongoing	Reports	
19.	Corrective action	CEMP 19	Take corrective action, where required	Project Manager	As required	Action taken	

Revision Status

Revision	Date	Revision Description	Prepared	Reviewed	Approved
A0	27 April 2007	Draft for BBA review	IW		
A1	9 May 2007	Draft for DTAE review	IW		
B0	22 October 2007	Revised for submission to DTAE following auditor's comments	IW	JD	JC
B3	30 January 2008	Revised to include inspection frequency	JRD	JD	CF

Bell Bay Alliance – Spill Management Procedures		
Objective		
To achieve timely and effective response to spills.		
Display of these procedures		
These procedures should be prominently displayed at any location where spill response personnel will be deployed.		
Response Equipment		
The following equipment, in quantities sufficient to respond to any credible spill, must be stored and maintained at nominated deployment locations:		
<ul style="list-style-type: none"> ▶ floating oil spill booms, to contain any spills from the bridge and causeway ▶ light weight boat anchors with chain and ring hook attachments ▶ oil absorption materials, including roll of absorbent sheeting, large sized pillows, packages of absorbent mats ▶ sandbags filled with a mixture of 50% sand and 50% absorbent particles (eg kitty litter) ▶ shovels, brooms, 25 litre plastic containers for removed waste ▶ large plastic bags to contain spent booms, matting. 		
Following use for a spill, non-disposable equipment must be returned to the deployment location and disposable equipment must be replaced.		
Actions		
Actions for response to a spill are:		
<ul style="list-style-type: none"> ▶ Assess the safety risk to exposure of personnel to any spilled chemicals and mitigate risks ▶ Ensure appropriate treatment and/or removal of any personnel from the immediate area ▶ Notify the BBA spill response coordinator ▶ Contain the spill using available equipment ▶ For a spill that could enter the waters of the Tamar estuary, notify the Port of Launceston spill response coordinator ▶ Notify the DTAE Environment Division emergency contact officer ▶ Notify representatives of any agricultural or aquacultural activities that could be impacted by the spill ▶ Ensure the protection of response personnel ▶ Respond to the directions and instructions of the Spill Response Coordinator. 		
Actions following a spill are:		
<ul style="list-style-type: none"> ▶ After containment of plume, remove spent absorbent matting from water and place into plastic bags for disposal ▶ Monitor land and water for any damage from spill plume and notify Parks and Wildlife Service for rescue of any entrapped wildlife ▶ Spill Response Coordinator to prepare a written statement on the incident and actions taken to minimise environmental harm. 		
Emergency contacts		
BBA Spill Response Coordinator: Name Emergency contact No.
Backup BBA Spill Response Coordinator: Name Emergency contact No.
DTAE Environment Division Emergency contact:		1800 005 171 Emergency contact No.
Port of Launceston Spill Response Coordinator: Name Emergency contact No.