

CHECKLIST 16: Decanting earth bund (DEB)

Contractor:	Date:	Consent number:	Site:
	Time:		
Construction checklist		Yes ✓	No ✗ (Add comments to explain)
Check back to 'Decanting earth bund (DEB)' section for full information. Also see the Figures over the page.			
DEB is built along the contour to achieve the required volumes			
All vegetation is removed before construction			
DEB is keyed into the ground at least 0.3 m deep			
DEB is built with a clay-silt mix of suitable moisture content to achieve a reasonable compaction standard (90%). Track roll at 150–200 mm lifts			
There is good compaction around the outlet pipe that passes through the bund, to avoid seepage and potential failure			
A 150 mm diameter, non-perforated outlet pipe is installed through the bund and discharges to a stable erosion-proofed area or stormwater system			
A T-Bar decant is attached by a standard joint (glued and screwed) The decant is 100 or 150 mm diameter PVC pipe, 0.5 m long with equally spaced holes of 10 mm diameter It is fixed firmly to a waratah standard to achieve 0.3 litres/second/1,000 m ² of contributing catchment			
A sealed PVC pipe (with endcaps) is placed on top of the decant to add buoyancy			
A flexible, thick rubber coupling connects the decant arm and the discharge pipe. The coupling is fastened by strap clamps, glue and screws			

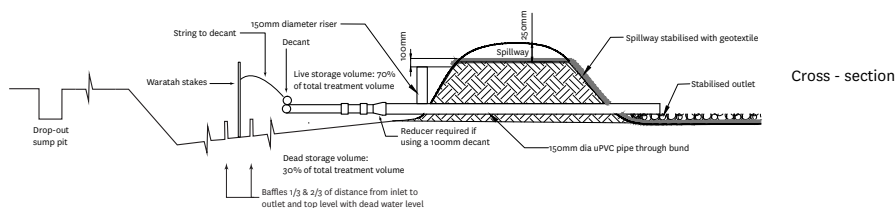
The decant is fastened to two waratahs by nylon cord, to the correct height to maintain dead water storage		
An emergency spillway goes to a stabilised outfall 100 mm freeboard height above the primary spillway. This can be a trapezoidal spillway with a minimum invert length of 2 m It must be smooth, have no voids and be lined with a soft needle punched geotextile to the stabilised outfall. Pins secure the geotextile, spaced no further than 0.5 m apart		
The emergency spillway has at least freeboard of 250 mm, ie between the invert of the spillway to the lowest point of the top of the bund		
At the end of construction, an as-built assessment is done and any discrepancies with the design rectified		
DEB is checked before and after each storm. Inspections are recorded and dated, along with comments, to be available for compliance monitoring officers		
There are baffles across the width of the bund, level with the dead water level and made of porous open-mesh cloth		
Dirty water inflows are treated with coagulant/flocculants in accordance with a chemical treatment plan and after appropriate testing		
Performance of the bund is monitored by water quality testing inflows and outflows. These records are stored in a retrievable location and can be produced for inspection		

Note: this is an on-site, self-check list for contractors to use. Keep your completed checklists to show Compliance Officers your set up, monitoring and maintenance, if requested.

Signature:

CHECKLIST 16

FIGURES: Decanting earth bund (DEB)



Decanting earth bund



Close up of decanting earth bund system (Source: SouthernSkies)