

<b>DESIGN ASSESSMENT CHECKLIST: ATTENUATION STORAGE TANK</b>			
<b>GENERAL INFORMATION</b>			
Site ID			
Asset ID(s)			
System location(s) and co-ordinates		Drawing reference(s)	
Date of assessment		Specification	
System description:			

<b>CHECK</b>	<b>SUMMARY DETAILS</b>	<b>ACCEPTABLE (Y/N)</b>	<b>COMMENTS/ REMEDIAL ACTIONS</b>
<b>DIMENSIONS (SECTION 21.4)</b>			
Length (m)			
Width (m)			
Depth to base - maximum and minimum (m)			
Depth of cover over top of system - maximum and minimum (m)			
Longitudinal base slope (1 in ?)			
<b>INFLOWS (SECTION 21.9.1)</b>			
Provide a description of the contributing catchment land use and its size (m <sup>2</sup> )			
Does the design include suitable silt Interception upstream of system?			
Does the design include suitable inlet and/or conveyance system to manage design flows - provide flow rate of water through side of crates, through perforated pipes or similar?			
<b>OUTFALL ARRANGEMENTS (SECTION 21.9.2)</b>			
Provide details of any flow control systems, overflow arrangements, drain-down time and limiting discharge rate from system			
Is the system designed to allow infiltration? If yes, attach infiltration assessment			
Is a geomembrane required to prevent infiltration? If yes, give reason			
Depth to maximum likely groundwater level (m)			
<b>STORAGE (SECTION 21.5)</b>			
Design return period(s) (years)			
Maximum design water depth(s) and level(s)			
Maximum design storage volume(s) (m <sup>3</sup> ) (include total system volume, void ratio and available volume)			
<b>STRUCTURAL (SECTION 21.4)</b>			
Confirm type of unit or structure to be used			
Confirm assumed traffic or other design loadings used in design plus short-term and long-term performance			

CHECK	SUMMARY DETAILS	ACCEPTABLE (Y/N)	COMMENTS/ REMEDIAL ACTIONS
Confirm that calculations are provided to demonstrate acceptable structural capacity over the proposed system design life that are approved by a chartered engineer			
Confirm that design and construction checklists, project roles and sign-off, designer evaluation form and product evaluation form in accordance with O'Brien et al (in press) have been provided			
Are there any unusual geotechnical risks? If yes, state and confirm acceptable risk management measures are proposed			
Has sufficient venting been provided to allow excess air pressure to be released when tank fills?			
<b>CRITICAL MATERIALS AND PRODUCT SPECIFICATIONS (SECTION 21.9)</b>			
Geomembrane			
Geotextile (non-woven)			
Topsoil			
Other (including proprietary systems):			
<b>CONSTRUCTABILITY (SECTION 21.12)</b>			
Are there any identifiable construction risks? If yes, state and confirm acceptable risk management measures are proposed			
<b>MAINTAINABILITY (SECTION 21.13)</b>			
Confirm that access for maintenance is acceptable and summarise details			
Are there specific features that are likely to pose maintenance difficulties? If yes, identify mitigation measures required			

SYSTEM DESIGN ACCEPTABILITY	SUMMARY DETAILS INCLUDING ANY	ACCEPTABLE (Y/N)	DATE CHANGES MADE
Acceptable: Minor changes required: Major changes required/redesign:			