

<b>Table B.5 SuDS health and safety risk assessment checklist</b>	
<b>Site/system overview</b>	
Site ID	Broadoak Farm, Linthwaite
Asset ID	SUDS Basin 1
Location	410563.621E 424787.537N
SuDS component	Detention Basin
Assessment date	TBC
Date of next assessment	TBC
<b>1 Establish context</b>	
General description of component and its operation	Detention SuDS basins to accommodate and retain flows for extreme storm events up to and including the 1:100 yr event. Preventing excessive discharge of flows to local UU sewer network and any flood risk to proposed or existing properties.
<b>2 Identify potential hazards</b>	
	Are hazards present? (Y/N)
Drowning or falling through ice in winter	If YES complete Section 3
Slips, trips and falls	If YES complete Section 4
Entry into pipes or confined spaces (note this is for inadvertent public access; follow relevant legislation and guidance for worker access)	If YES complete Section 5
Water quality – health risk	If YES complete Section 6

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3 Drowning or falling through ice in winter		
Consider factors that might affect: • the likelihood of people entering the water/accessing the ice • the potential consequence of entering the water/accessing the ice	Summary of influence of factor on likelihood of entry/access, including justification (consider for children < 5 years, children ≥ 5 years, adults)	Summary of influence of factor on consequence of entry or access, including justification (consider for children < 5 years, children ≥ 5 years, adults)
<b>Environmental factors</b>		
Proximity to populated areas: schools, inns, retail/tourism, picnic areas, play areas, car park, roads, especially attractive features likely to be visited	No local features or car parks.	
Features allowing or encouraging access (eg paths)	Maintenance access path is accessible	
Physical accessibility of proposed drainage feature: consider intended use and inadvertent access (including of small children)	SuDS Basin is not segregated from the site.	
Visibility and natural surveillance of proposed drainage features	Highly visible	
<b>Behavioural factors</b>		
Category and volume of expected users: swimmers, anglers, walkers, drivers, specialist water users, General public, dog walkers, teenagers, accompanied/unaccompanied children	N/A Basin is typically dry	
Nature of development (housing, commercial, industrial etc)	Housing	
Any known existing risks (eg records of accidents) posed by water/drainage features at or close to the site?	None	
<b>Design factors – water’s edge</b>		
Type and nature of water-edge planting	N/A no permanent water’s edge	
Definition of water edge and nature of ground (eg soft/hard)	N/A no permanent water’s edge	
Natural obstacles, barriers/fencing	N/A no permanent water’s edge	
Height of edge above water	N/A no permanent water’s edge	
Gradient and extent of slopes above, at and below water level	N/A	

**Note** For definition of levels, see [Table 36.2 in Chapter 36](#).

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3 Drowning or falling through ice in winter		
<b>Consider factors that might affect:</b> <ul style="list-style-type: none"> <li>the likelihood of people entering the water/accessing the ice</li> <li>the potential consequence of entering the water/accessing the ice</li> </ul>	<b>Summary of influence of factor on likelihood of entry/access, including justification (consider for children &lt; 5 years, children ≥ 5 years, adults)</b>	<b>Summary of influence of factor on consequence of entry or access, including justification (consider for children &lt; 5 years, children ≥ 5 years, adults)</b>
<b>Design factors – water body</b>		
Water depth profile	N/A	
Water surface area	N/A	
Clarity	N/A	
Underwater obstacles or traps	N/A	
Potential currents, velocities	Very low	
Potential increase in depth of water and rate of rise	942mm over 1440 minutes	
Potential for ice formation and significant depth of water below in winter	Very Low – water will drain down quickly	
<b>Public education</b>		
Signage	N/A	
Community engagement strategies	N/A	
Local education strategies (eg schools)	No Schools in proximity boundary to site	
<b>Overall assessment of likelihood of entry/access and consequences</b>	<b>Likelihood</b>	<b>Consequences</b>
Children < 5 years Children > 5 years Adults	LOW	

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Summary of section 3 risk assessment for drowning or falling through ice						
Group	Likelihood of entry to water	Likely consequence of entry to water	Overall level of risk posed by the design <sup>1</sup>	Further mitigation measures required	Action date	Final level of risk <sup>1</sup>
Children < 5 years Children > 5 years Adults	Low	Minimal risk of drowning	Very Low	None	N/A	Low

Note For definition of levels, see [Table 36.2 in Chapter 36](#).

4 Slips/trips/falls		
Factors that might affect likelihood of people slipping/tripping/falling	Summary of influence of factor on likelihood of slip/ trip/fall, including justification (consider for children < 5 years, children ≥ 5 years, adults)	Summary of influence of factor on consequence of slip/ trip/fall, including justification (consider for children < 5 years, children ≥ 5 years, adults)
<b>Design factors – inlets and outlets or channels</b>		
Headwall or channel location	Southern Side of Basin (inlet)	South Eastern Side of Basin (outlet)
Headwall height or channel depth and width	1110mm high	1150mm High
Slope of headwall or channel profile	50mm across headwall Apron	Level
Channels – profile and risk of freezing water	Low profile channel, no risk	Low profile channel, no risk
<b>Design factors – surfaces</b>		
Level changes	11.840m to 11.650m AOD	No level change
Surfacing materials	Concrete Apron	Concrete Apron

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Summary of section 4 risk assessment for slips/trips/falls						
Group	Likelihood of slips/trips/falls/other injury	Likely consequence of slips/trips/falls/other injury	Overall level of risk posed by the design <sup>1</sup>	Further mitigation measures required	Action date	Final level of risk <sup>1</sup>
Children < 5 years Children ≥ 5 years Adults	LOW	LOW	LOW RISK			

**Note**

For definition of levels, see [Table 36.2 in Chapter 36](#).

5 Entry into pipes or confined spaces (Note: This risk assessment covers inadvertent access by the public. Where specific access is required by workers the requirements of relevant health and safety legislation and guidance should be followed.)		
Factors that might affect likelihood of people entering pipes or confined spaces	Summary of influence of factor on likelihood of entry into pipes or confined spaces, including justification (consider for children < 5 years, children ≥ 5 years, adults)	Summary of influence of factor on consequence of entering pipe or confined space, including justification (consider for children < 5 years, children ≥ 5 years, adults)
<b>Design factors – inlets and outlets</b>		
Pipe diameter	450	450
Are grilles provided?	YES	YES
<b>Design factors – chambers</b>		
Depth of chamber	1.5	
Is access possible?	YES	

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Summary of section 5 risk assessment for entry into pipes/confined spaces						
Group	Likelihood of entry into pipes/ confined spaces	Likely consequence of entry into pipes/ confined spaces <sup>1</sup>	Overall level of risk posed by the design	Further mitigation measures required	Action date	Final level of risk <sup>1</sup>
Children < 5 years Children ≥ 5 years Adults	LOW	LOW	LOW RISK			

**Note**

For definition of levels, see [Table 36.2 in Chapter 36](#).

6 Health issues		
Factors that might affect likelihood of people suffering from ill health due to SuDS water quality	Summary of influence of factor on likelihood of poor health, including justification (consider for children < 5 years, children ≥ 5 years, adults)	Summary of influence of factor on consequence of resulting ill health, including justification (consider for children < 5 years, children ≥ 5 years, adults)
<b>Pollution treatment strategy</b>		
Level of contamination of publically accessible water	LOW	
Likely contamination from rat urine	LOW (Open Space likely predators will deter rats)	
Likely contamination from dog or bird fouling	Low , standing water not present	
Likelihood of toxic algal blooms	Low, standing water not present	
Likelihood of vectors (organism which carries disease-causing microorganisms from one host to another)	Low , standing water not present	
Public accessibility to any sediment accumulation zones	Medium (1:4 slops easy transversal )	
<b>Public education and risk management</b>		
Signs		
Community engagement strategies		
Local education strategies (eg schools)		
Litter management and control		
Dog fouling management and control		

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Summary of section 5 risk assessment for health issues						
Group	Likelihood of ill health	Likely consequence of ill health	Overall level of risk posed by the design	Further mitigation measures required	Action date	Final level of risk
Children < 5 years Children ≥ 5 years Adults						

**Note**

For definition of levels, see [Table 36.2 in Chapter 36](#).