

| Table B.5 SuDS health and safety risk assessment checklist                                                                                   |                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Site/system overview                                                                                                                         |                                            |
| Site ID                                                                                                                                      | Boorley Gardens, Winchester Road Hedge End |
| Asset ID                                                                                                                                     | Basin A2                                   |
| Location                                                                                                                                     | 450143, 115099                             |
| SuDS component                                                                                                                               | Attenuation basin and swale                |
| Assessment date                                                                                                                              | 25 February 2025                           |
| Date of next assessment                                                                                                                      | To be confirmed                            |
| 1 Establish context                                                                                                                          |                                            |
| General description of component and its operation                                                                                           | To provide water treatment and attenuation |
| 2 Identify potential hazards                                                                                                                 | Are hazards present? (Y/N)                 |
| Drowning or falling through ice in winter                                                                                                    | <b>Yes;</b> If YES complete Section 3      |
| Slips, trips and falls                                                                                                                       | <b>Yes;</b> 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) | <b>Yes;</b> If YES complete Section 5      |
| Water quality – health risk                                                                                                                  | <b>Yes;</b> If YES complete Section 6      |

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| 3 Drowning or falling through ice in winter                                                                                                                                    |                                                                                                                                                     |                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Consider factors that might affect:                                                                                                                                            | 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                    | Management Company maintained road – possibly will occur/recur occasionally                                                                         | Serious Injury/Dangerous Near Miss – the slopes have been designed at 1:4 to allow east exit, visibility is very good, with knee rails around the perimeter, reducing the consequences to Minor Injury. Final risk is low. |
| Features allowing or encouraging access (eg paths)                                                                                                                             | No – access discouraged with knee rails. Access is easy.                                                                                            | As above.                                                                                                                                                                                                                  |
| Physical accessibility of proposed drainage feature: consider intended use and inadvertent access (including of small children)                                                | Access is discouraged with knee rails. Access is easy.                                                                                              | As above.                                                                                                                                                                                                                  |
| Visibility and natural surveillance of proposed drainage features                                                                                                              | Good.                                                                                                                                               | As above.                                                                                                                                                                                                                  |
| <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 | The location is not suitable for other activities; it is easily accessible.                                                                         | As above.                                                                                                                                                                                                                  |
| Nature of development (housing, commercial, industrial etc)                                                                                                                    | Housing.                                                                                                                                            | As above.                                                                                                                                                                                                                  |
| 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                                                                                                                                         | Grass/wildflower/marginals.                                                                                                                         | Risk; Low.                                                                                                                                                                                                                 |
| Definition of water edge and nature of ground (eg soft/hard)                                                                                                                   | Grass/wildflower/marginals on a slope.                                                                                                              | Risk; Low.                                                                                                                                                                                                                 |
| Natural obstacles, barriers/fencing                                                                                                                                            | Knee rail adjacent paths.                                                                                                                           | Risk; Low.                                                                                                                                                                                                                 |
| Height of edge above water                                                                                                                                                     | 500mm on slope (at max water level).                                                                                                                | Risk; Low.                                                                                                                                                                                                                 |
| Gradient and extent of slopes above, at and below water level                                                                                                                  | 1:4                                                                                                                                                 | Risk; Low.                                                                                                                                                                                                                 |

**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                                                                                                                                                                                                                   | 900mm (including climate change) – permanent water level much lower, as the water level is measured during worst case rainfall event.                         | Risk; Low.                                                                                                                                                        |
| Water surface area                                                                                                                                                                                                                    | 1,272m <sup>2</sup>                                                                                                                                           |                                                                                                                                                                   |
| Clarity                                                                                                                                                                                                                               | Clear                                                                                                                                                         |                                                                                                                                                                   |
| Underwater obstacles or traps                                                                                                                                                                                                         | Forebay.                                                                                                                                                      | Risk; Low.                                                                                                                                                        |
| Potential currents, velocities                                                                                                                                                                                                        | No – very low flow.                                                                                                                                           | Risk; Low.                                                                                                                                                        |
| Potential increase in depth of water and rate of rise                                                                                                                                                                                 | Slow (during storm events)                                                                                                                                    | Risk; Low.                                                                                                                                                        |
| Potential for ice formation and significant depth of water below in winter                                                                                                                                                            | Yes, if temperature falls below 0°C after a significant rainfall event                                                                                        | Risk; Medium.                                                                                                                                                     |
| <b>Public education</b>                                                                                                                                                                                                               |                                                                                                                                                               |                                                                                                                                                                   |
| Signage                                                                                                                                                                                                                               | Yes – ‘Danger Deep Water - Keep Out’ signs with Lifebuoys                                                                                                     | Risk; Low.                                                                                                                                                        |
| Community engagement strategies                                                                                                                                                                                                       | To be confirmed.                                                                                                                                              |                                                                                                                                                                   |
| Local education strategies (eg schools)                                                                                                                                                                                               | To be confirmed.                                                                                                                                              |                                                                                                                                                                   |
| <b>Overall assessment of likelihood of entry/access and consequences</b>                                                                                                                                                              | <b>Likelihood</b>                                                                                                                                             | <b>Consequences</b>                                                                                                                                               |
| Children < 5 years    Children > 5 years<br>Adults                                                                                                                                                                                    | Uncommon – may occur/recur at times                                                                                                                           | Minor injury or health effects (drowning has been excluded as to exit is easy and the water level will be low most of the time).                                  |

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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<br>Children > 5 years<br>Adults                       | Uncommon – may occur/recur at times | Minor injury or health effects       | Low                                                    | Not required                         | 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                                             | Inlets and Outlet; unlikely                                                                                                                            | Post and rail fencing above the headwalls; Low                                                                                                          |
| Headwall height or channel depth and width                               | 1400mm; unlikely                                                                                                                                       | As above                                                                                                                                                |
| Slope of headwall or channel profile                                     | 1:4; unlikely                                                                                                                                          | As above                                                                                                                                                |
| Channels – profile and risk of freezing water                            | Low profile channels to remove standing water; unlikely                                                                                                | Low                                                                                                                                                     |
| <b>Design factors – surfaces</b>                                         |                                                                                                                                                        |                                                                                                                                                         |
| Level changes                                                            | Side slopes at 1:4 with a flat base; unlikely                                                                                                          | Gentle slopes; Low                                                                                                                                      |
| Surfacing materials                                                      | Grass/wildflower/marginals; unlikely                                                                                                                   | As above                                                                                                                                                |

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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<br>Children ≥ 5 years<br>Adults         | Uncommon – may occur/recur at times          | Minor injury or health effects                       | Low                                                    | Not required                         | Not applicable | Low                              |

**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                                                                                                                                                                                                                                        | 300/900mm; unlikely                                                                                                                                                        | Grilles provided; Low                                                                                                                                                   |
| Are grilles provided?                                                                                                                                                                                                                                | Yes; unlikely                                                                                                                                                              | As above                                                                                                                                                                |
| <b>Design factors – chambers</b>                                                                                                                                                                                                                     |                                                                                                                                                                            |                                                                                                                                                                         |
| Depth of chamber                                                                                                                                                                                                                                     | Approximately 1200mm; unlikely                                                                                                                                             | Covers in place; Low                                                                                                                                                    |
| Is access possible?                                                                                                                                                                                                                                  | No; unlikely                                                                                                                                                               | As above                                                                                                                                                                |

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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<br>Children ≥ 5 years<br>Adults                        | Unlikely                                        | Serious injury                                                       | Low                                       | Not required                         | Not applicable | Low                              |

**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                                                  | Unlikely.                                                                                                                                          | Low.                                                                                                                                                         |
| Likely contamination from rat urine                                                                    | Unlikely.                                                                                                                                          | Low.                                                                                                                                                         |
| Likely contamination from dog or bird fouling                                                          | Low.                                                                                                                                               | Low.                                                                                                                                                         |
| Likelihood of toxic algal blooms                                                                       | Unlikely.                                                                                                                                          | Low.                                                                                                                                                         |
| Likelihood of vectors (organism which carries disease-causing microorganisms from one host to another) | Unlikely.                                                                                                                                          | Low.                                                                                                                                                         |
| Public accessibility to any sediment accumulation zones                                                | Yes – if accumulated.                                                                                                                              | Low.                                                                                                                                                         |
| <b>Public education and risk management</b>                                                            |                                                                                                                                                    |                                                                                                                                                              |
| Signs                                                                                                  | Yes – ‘Danger Deep Water - Keep Out’ signs with Lifebuoys                                                                                          | Risk; Low                                                                                                                                                    |
| Community engagement strategies                                                                        | To be confirmed.                                                                                                                                   |                                                                                                                                                              |
| Local education strategies (eg schools)                                                                | To be confirmed.                                                                                                                                   |                                                                                                                                                              |
| Litter management and control                                                                          | Management Company & Residents                                                                                                                     | Risk; Low                                                                                                                                                    |
| Dog fouling management and control                                                                     | Management Company & Residents                                                                                                                     | Risk; Low                                                                                                                                                    |

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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<br>Children ≥ 5 years<br>Adults     | Unlikely                 | Serious injury                   | Low                                       | Not required                         | Not applicable | Low                 |

**Note**

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