## SuDS Risk Assessment Checklist

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| **SITE/SYSTEM OVERVIEW** |  |
| Site ID |  |
| Asset ID |  |
| Location |  |
| SuDS Component |  |
| Assessment Date |  |
| Date of next assessment |  |
| **1. ESTABLISH CONTEXT** |  |
| General description of component and its operation  |  |
| **2. IDENTIFY POTENTIAL HAZARDS** | Are hazards present? (Y/N) |
| Drowning/Falling through ice in winter |  If YES complete Section 3 |
| Slips, trips and falls |  If YES complete Section 4 |
| Entry into pipes/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 |

| **3. DROWNING OR FALLING THROUGH ICE IN WINTER** |  |  |
| --- | --- | --- |
| Consider factors that might affect:1. the likelihood of people entering the water/accessing the ice
2. 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/access, including justification(Consider for children < 5 years, children ≥ 5 years, adults) |
| **ENVIRONMENTAL FACTORS** |  |  |
| 1. Proximity to populated areas: schools, inns, retail/tourism, picnic areas, play areas, car park, roads, especially attractive features likely to be visited
 |  |  |
| 1. Features allowing/encouraging access (e.g. paths)
 |  |  |
| 1. Physical accessibility of proposed drainage feature: consider intended use and inadvertent access (including of small children)
 |  |  |
| 1. Visibility and natural surveillance of proposed drainage features
 |  |  |
| **BEHAVIOURAL FACTORS** |  |  |
| 1. Category and volume of expected users: swimmers; anglers; walkers; drivers; specialist water users; general public; dog walkers, teenagers; accompanied/unaccompanied children
 |  |  |
| 1. Nature of Development (housing, commercial, industrial, etc.)
 |  |  |
| 1. Any known existing risks (e.g. records of accidents) posed by water/drainage features at or close to the site?
 |  |  |
| **DESIGN FACTORS – WATER’S EDGE** |  |  |
| 1. Type and nature of water-edge planting
 |  |  |
| 1. Definition of water edge and nature of ground (e.g. soft/hard)
 |  |  |
| 1. Natural obstacles, barriers/fencing
 |  |  |
| 1. Height of edge above water
 |  |  |
| 1. Gradient and extent of slopes above, at and below water level
 |  |  |
| **DESIGN FACTORS – WATERBODY** |  |  |
| 1. Water depth profile
 |  |  |
| 1. Water surface area
 |  |  |
| 1. Clarity
 |  |  |
| 1. Underwater obstacles or traps
 |  |  |
| 1. Potential currents, velocities
 |  |  |
| 1. Potential increase in depth of water and rate of rise
 |  |  |
| 1. Potential for ice formation and significant depth of water below in winter
 |  |  |
| **PUBLIC EDUCATION** |  |  |
| 1. Signage
 |  |  |
| 1. Community engagement strategies
 |  |  |
| 1. Local education strategies (e.g. schools)
 |  |  |
| **OVERALL ASSESSMENT OF LIKELIHOOD OF ENTRY/ACCESS AND CONSEQUENCES** | **Likelihood** | **Consequences** |
| Children <5 yearsChildren >5 yearsAdults |  |  |

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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** | **Additional mitigation measures required** | **Action Date** | **Final level of risk** |
| Children <5 yearsChildren >5 yearsAdults |  |  |  |  |  |  |

For definition of Levels, see Risk Matrix, Table 2

|  |  |  |
| --- | --- | --- |
| **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) |
| **DESIGN FACTORS- INLETS AND OUTLETS OR CHANNELS** |  |  |
| 1. Headwall or channel location
 |  |  |
| 1. Headwall height or channel depth and width
 |  |  |
| 1. Slope of headwall or channel profile
 |  |  |
| 1. Channels – profile and risk of freezing water
 |  |  |
| **DESIGN FACTORS - SURFACES** |  |  |
| 1. Level changes
 |  |  |
| 1. Surfacing materials
 |  |  |

| **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** | **Additional mitigation measures required** | **Action Date** | **Final level of risk** |
| Children <5 yearsChildren >5 yearsAdults |  |  |  |  |  |  |

For definition of Levels, see Risk Matrix, Table 2

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| **5. ENTRY INTO PIPES/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) |
| **DESIGN FACTORS- INLETS AND OUTLETS**  |  |  |
| 1. Pipe diameter
 |  |  |
| 1. Are grilles provided?
 |  |  |
| **DESIGN FACTORS - CHAMBERS** |  |  |
| 1. Depth of chamber
 |  |  |
| 1. Is access possible?
 |  |  |

| **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** | **Overall level of risk posed by the design** | **Additional mitigation measures required** | **Action Date** | **Final level of risk** |
| Children <5 yearsChildren >5 yearsAdults |  |  |  |  |  |  |

For definition of Levels, see Risk Matrix, Table 2

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| --- | --- | --- |
| **6. HEALTH ISSUES** |  |  |
| Factors that might affect likelihood of people suffering from ill health as a result of 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) |
| **POLLUTION TREATMENT STRATEGY** |  |  |
| 1. Level of contamination of publically accessible water
 |  |  |
| 1. Likely contamination from rat urine
 |  |  |
| 1. Likely contamination from dog/bird fouling
 |  |  |
| 1. Likelihood of toxic algal blooms
 |  |  |
| 1. Likelihood of vectors (organism which carries disease-causing microorganisms from one host to another)
 |  |  |
| 1. Public accessibility to any sediment accumulation zones
 |  |  |
| **PUBLIC EDUCATION/RISK MANAGEMENT** |  |  |
| 1. Signs
 |  |  |
| 1. Community engagement strategies
 |  |  |
| 1. Local education strategies (e.g. schools)
 |  |  |
| 1. Litter management/control
 |  |  |
| 1. Dog fouling management/control
 |  |  |

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| **6. HEALTH ISSUES** |  |  |
| **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** | **Additional mitigation measures required** | **Action Date** | **Final level of risk** |
| Children <5 yearsChildren >5 yearsAdults |  |  |  |  |  |  |

For definition of Levels, see Risk Matrix, Table 2