## SuDS Risk Assessment Checklist

|  |  |
| --- | --- |
| **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 years  Children >5 years  Adults |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 years  Children >5 years  Adults |  |  |  |  |  |  |

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 years  Children >5 years  Adults |  |  |  |  |  |  |

For definition of Levels, see Risk Matrix, Table 2

|  |  |  |
| --- | --- | --- |
| **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 years  Children >5 years  Adults |  |  |  |  |  |  |

For definition of Levels, see Risk Matrix, Table 2

|  |  |  |
| --- | --- | --- |
| **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 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 years  Children >5 years  Adults |  |  |  |  |  |  |

For definition of Levels, see Risk Matrix, Table 2