

# Legionella Risk Assessment

## Butchers Coppice Scout Camp Site

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### 1. Description of Site and Water Systems

Generally, the water systems at Butchers Coppice Scout campsite are considered moderate risk as they are predominantly mains fed, have simple pipework systems, and minimal hot / cold water storage.

The primary risk is lack of use, especially during the winter months, which can be controlled by regular flushing.

#### Site Overview:

- Standalone toilet and shower block (separate male/female facilities)
- 2 sleeping accommodation buildings
- Explorer scout center
- Reception building / crew center
- Outdoor taps and standpipes for camping activities and washing up

#### System Description:

- Individual mains cold water supplies to each building
- Local hot water generation via boilers or electric water heaters in individual buildings
- Small hot and cold-water distribution systems
- Local TMVs to water outlets
- Only cold-water storage in small break tank located in plant room to toilet block.
- Showers fitted with thermostatic mixing valves (TMVs)

## 2. Risk assessment / Potential for Legionella Growth

| System                | Risk rating | Control measure                                        | Aerosol Generation | Comments / controls                      |
|-----------------------|-------------|--------------------------------------------------------|--------------------|------------------------------------------|
| Cold water break tank | Medium      | Annual checks of storage tanks                         | None               | Check for lids, insulation & cleanliness |
| Cold water system     | Low-Medium  | Cold water to be below 20°C                            | Low                | Monitor temps                            |
| Hot water system      | Medium      | Hot water must be > 60°C at source                     | Medium             | Monitor flow and return temps.           |
| Showers               | Medium      | Regular flushing and 3 monthly clean                   | High               | Ensure regularly used                    |
| TMVs                  | Medium      | Annual inspection and clean                            | n/a                | By contractor                            |
| Field taps            | Medium      | Regular flushing, especially between October and April | Low-Medium (spray) | Seasonal use can lead to stagnation      |

## 3. Occupancy and Use Patterns

- Site is occupied seasonally / during weekends with varying numbers (e.g. 20–400 people).
- Site is well used between April and October where most outlets will be well used throughout the camping season.
- Increased risk from stagnation due to lack of use between October to April so regular flushing becomes more important at that time of year.

## 5. Risk Evaluation

| Hazard                                 | Likelihood | Severity | Risk Rating | Control measure                                |
|----------------------------------------|------------|----------|-------------|------------------------------------------------|
| Legionella growth in stored cold water | Low        | High     | Medium      | Annual inspection & flushing controls in place |
| Legionella growth in hot water systems | Low        | High     | Medium      | Good temp control essential                    |
| Showers after periods of non-use       | High       | High     | High        | Regular flushing and cleaning                  |
| Outdoor taps used for activities       | Medium     | Medium   | Medium      | Regular flushing over winter                   |

## 6. Maintenance strategy / control measures

Maintenance will be carried out in line with HSG274. Part 2. This shall include the following regular maintenance of water systems

| Action                                                                                           | Priority | Responsible     | Timescale |
|--------------------------------------------------------------------------------------------------|----------|-----------------|-----------|
| Record weekly flushing schedule for all infrequently used outlets. (inc field taps)              | High     | Site Maint team | Weekly    |
| Record flow and return temperature from boilers / hot water storage >60°C flow and >50°C return. | High     | Site Maint team | Monthly   |
| Record cold water temps at closest and furthest outlet to ensure <20°C                           | High     | Site Maint team | Monthly   |
| Check mixed temperatures from TMVs not greater than 44°C                                         | Medium   | Site Maint team | Monthly   |
| Ensure cold water tanks are lidded, insulated, and clean.                                        | High     | Site Warden     | Annually  |
| Clean and disinfect shower heads.                                                                | High     | Site Maint team | 3 Monthly |
| Clean and disinfect TMVs check failsafe operation                                                | Moderate | Contractor      | Annually  |

| Action                                                                        | Priority | Responsible  | Timescale |
|-------------------------------------------------------------------------------|----------|--------------|-----------|
| Review and update this risk assessment every 2 years or after system changes. | Medium   | Site Manager | 2 yearly  |

## 7. Monitoring & Record Keeping

Records to be maintained on electronic logbook in line with HSG264 Part 2. Records shall be available for inspection on site. Records to include:

- Flushing records for infrequently used outlets. (defined as not likely to have been used within last 7 days)
- Temperature monitoring of hot / cold water
- Temperature monitoring of TMVs
- Failsafe checks on TMVs
- Shower head cleaning records
- Tank inspection reports
- Legionella sampling results (if applicable)
- Records of planned maintenance and remedial works completed by contractors

**Next review date no later than July 2026**