**ENVIRONMENTAL IMPACT ASSESSMENT**

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| **Title** | Legionella | | |
| **Aspect** | Chilled water in the water systems can generate the legionella virus if not properly treated and monitored. Legionella bacteria develop in water maintained at a high enough temperature to encourage growth with the right conditions for spreading the virus. | | |
| **Environmental Impact** | Risk of distributing airborne Legionella bacteria to the site and neighbourhood.  This can lead to death by legionnaire’s disease, a type of pneumonia.  If not properly regulated the cooling towers can culture and distribute the legionella bacteria by water droplets. | | |
| **Controls Measures** | A programme of microbiological testing and chemical dosing is in place as part of the sites Legionellosis prevention system. This is managed by the site maintenance and engineering team. | | |
| **Relevant Legislation** | See Register of Relevant Legislation | | |
| **Significance** | **Frequency**  **(F)** | **Severity**  **(S)** | **Impact**  **(I)** |
| **Normal** | **1** | **1** | **1** |
| **Abnormal** | **1** | **10** | **10** |
| **Emergency** | **1** | **10** | **10** |
| **Frequency (F)**  Unlikely (annual) = 1  Common (monthly) = 2  Frequent (daily/weekly) = 3 | | **Severity (S)**  Minimal Environmental Impact = 1  Low Environmental Impact = 2  Moderate Environmental Impact = 3  High Environmental Impact = 6  Severe Environmental Impact = 10 | |
| Environmental Impact (I) = Frequency of Occurrence (F) X Severity (S) | | | |
| Comments / Actions / Further Investigations The Technical and Engineering Managers and the Engineering Department hold safety policies and procedures. Legionella risk assessments are completed for the site on a two yearly basis. | | | |