***Table 3: Structures in which Legionella was isolated and in which at least a second sampling operation was performed: summary of samplings’ results***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Structures analysed: type, ID** | **Sampling #** | **Declared disinfection treatment carried out before sampling** | **Sampling result (isolated *Legionella*, % positive samples)** | **Maximum *Legionella* load detected (UFC / L)** |
| Sports Centre, 3 | 1 | / | *L. pneumophila* sg1, 67% | 8x103 |
| 2 | Shock hyperchlorination |  | < 10 |
| Sports Centre, 6 | 1 | / | *L. pneumophila* sg2-14, 33% | 6x103 |
| 2 | Heat shock every day, showerhead management |  | < 10 |
| Sports Centre, 10 | 1 | / | *L. pneumophila* sg2-14, 100% | 1.2x104 |
| 2 | Shock hyperchlorination, heat shock and showerhead management |  | < 10 |
| Sports Centre, 11 | 1 | / | *L. pneumophila* sg1 and 2-14, 67% | 3x104 |
| 2 | Shock hyperchlorination and showerhead management | *L. pneumophila* sg1 and 2-14: 50%;  *L. pneumophila* sg2-14: 25% | 1.4x105 |
| 3 | Shock hyperchlorination |  | < 10 |
| Sports Centre, 12 | 1 | / | *L. pneumophila* sg2-14, 100% | 6.2x104 |
| 2 | Shock hyperchlorination1 | *L. pneumophila* sg2-14, 75% | 5.7x104 |
| 3 | Shock hyperchlorination1 | *L. pneumophila* sg2-14, 83% | 3.0x104 |
| Sports Centre, 17 | 1 | / | *L. pneumophila* sg1, 25%;  *L. pneumophila* sg 1 and 2-14, 25% | 1.6x104 |
| 2 | Shock hyperchlorination2 | *L. pneumophila* sg2, 67%;  *L. pneumophila* sg 1 and 2-14, 17% | 3.2x104 |
| 3 | Shock hyperchlorination, heat shock every day, hydrogen peroxide | *L. pneumophila* sg1, 13% | 2x103 |
| Spa hotel, 36 | 1 | / | *L. pneumophila* sg1, 22.2%;  *L. pneumophila* sg1 and spp., 11.1%;  *Legionella* spp., 11.1% | 1.6x104 |
| 2 | Shock hyperchlorination every day |  | < 10 |
| 33 | / | *Legionella* spp., 18%;  *L pneumophila* sg1: 10% | 4x103 |
| 43 | Shock hyperchlorination every day | *Legionella* spp.,71%  *L pneumophila* sg1 e 2-14 and  *Legionella* spp, 14% | 1x103 |
| 53 | Shock hyperchlorination every day | *Legionella* spp., 17% | 90 |
| 63 | Shock hyperchlorination every day | *L. pneumophila* sg2-14, 20%; *Legionella* spp., 20%; *L. pneumophila* sg1, 10% | 1.9x103 |
| Retirement home, 48 | 1 | / | *L. pneumophila* sg1, 100% | 850 |
| 2 | Shock hyperchlorination, heat shock every day | *L. pneumophila* sg1, 63% | 4.1x104 |
| 3 | Shock hyperchlorination, heat shock every day | *L. pneumophila* sg1, 25% | 150 |
| 4 | Shock hyperchlorination, heat shock every day | *L. pneumophila* sg1, 25% | 40 |
| Retirement home, 49 | 1 | / | *L. pneumophila* sg1, 100% | 750 |
| 2 | Shock hyperchlorination, heat shock every day | *L. pneumophila* sg1, 75% | 470 |
| 3 | Shock hyperchlorination, heat shock every day | *L. pneumophila* sg1, 50% | 10 |
| 4 | Shock hyperchlorination, heat shock every day |  | < 10 |

*1 Carried out by the operator, not by a specialised technician*

*2* *Performed only in sections of water systems leading to the distal points that were positive for Legionella*

*3 Taking into account the negativisation of the structure in the previous sampling operation, the third, fourth, fifth and sixth samplings were considered in the analyses as the first, second, third and fourth sampling operations,* *respectively.*