**APPENDIX A: HEADROOM TABLES**

**AVAILABLE TREATMENT HEADROOM AT WASTE WATER TREATMENT WORKS**

Table 1 below gives an indication of remaining headroom at each Wastewater Treatment Works (WWTW) as at 1st January 2021 based on current Environment Agency permits and average dry weather flow (DWF) Q80 data for the period 2016-2020. Average waste water of 500l per household per day is used to estimate remaining capacity on the advice of the Environment Agency and in line with Southern Water’s guidance on calculating Dry Weather Flow Headroom for Local Plans. This approach has been agreed by the Chichester Water Quality Group and is consistent with the method used to inform the adopted Local Plan. Due to the constraints identified in the Statement above, capacity at Chichester (Apuldram) and Lavant is shown as zero.

**Table 1: Estimated Remaining Dry Weather Flow Headroom within current Environment Agency Permits - Jan 2021**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **WWTW** | **1. Consented DWF (EA permit) (m3/day)** | **2. Average DWF/day 2016-20 -.**  | **3. Average remaining DWF headroom (m3 per day) ( 1-2)** | **4. Estimated remaining dwelling capacity (based on 500l phpd)** |
| Bosham | 1221  | 948  | 273  | 546  |
| Chichester | 13524 | 10148 | 3376 | 0  |
| Kirdford | 165 | 95 | 70 | 140 |
| Lavant | 1696 | 455 | 1241 | 0 |
| Loxwood | 767 | 760 | 7 | 14 |
| Pagham | 2309 | 1942 | 367 | 734 |
| Sidlesham | 5800 | 5206 | 594 | 1188 |
| Tangmere | 3000 | 1143 | 1857 | 3714 |
| Thornham | 6565 | 6090 | 475 | 950 |
| Wisborough Green | 324 | 211 | 113 | 226 |
| Total | 35371 | 26998 | 8373 | 7512 |

Source: Southern Water

Table 2 below shows how committed development might use up the remaining headroom. This is based on the latest housing trajectory information for Chichester and Havant. Southern Water has provided information on other likely connections from outside of the Plan Area. Note that while local authorities monitor housing from April to March, Southern Water’s DWF data relates to calendar years. No specific allowance is made here for completions that may have happened between Jan 2021 and March 2021 due to data limitations but this is being considered in more detail for Thornham alongside the Position Statement. Given these are indicative estimates in any case, this is considered a proportionate approach.

**Table 2: A comparison of remaining DWF headroom to committed development (planning permissions only as at 1st April 2021)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WWTW** | **1.Estimated remaining headroom at 1st Jan 2021** | **2. Planning permission in Chichester Plan Area 1st April 2021** | **3. Planning Permissions in other areas 1st April 2021** | **4. Total Planning Permissions at 1st April 2021** | **5. Estimated remaining headroom – planning permissions** |
| Bosham | 546  | 63 | 17 | 80 | 466 |
| Chichester | 0  | 736 | 0 | 736 | -736 |
| Kirdford | 140 | 56 | 0 | 56 | 84 |
| Lavant | 0 | 1 | 18 | 19 | -19 |
| Loxwood | 14 | 103 | 180 | 283 | -269 |
| Pagham | 734 | 18 | 839 | 857 | -123 |
| Sidlesham | 1188 | 391 | 0 | 391 | 797 |
| Tangmere | 3714 | 1527 | 0 | 1527 | 2187 |
| Thornham | 950 | 360 | 215 | 575 | 375 |
| Wisborough Green | 226 | 26 | 0 | 26 | 200 |
| Total | 7512 | 3281 | 1269 | 4550 | 2962 |

 Source: CDC, HBC and Southern Water

**Table 3: A comparison of remaining DWF headroom to committed development ( planning permissions and existing allocations)**

Table 3 adds Local Plan allocations without planning permission to the permissions data above for a complete picture of existing commitments. Allocations are those in adopted Local Plans or Neighbourhood Plans. For Havant Borough , proposed allocations are also included given their Local Plan is at an advanced stage, currently at examination.

Column 10 in Table 3 below indicates when current DWF permit limits might be reached and either revised permits would be required, or alternative wastewater infrastructure solutions implemented. **Note that this is without any further allocations to be proposed through the Chichester Local Plan Review, as the location of these is still under review.**

Two figures are given for Thornham because decisions about the Waste Water Treatment Works to be used for proposed development of 2100 homes at Southleigh in Havant’s Local Plan are not yet taken. Current indications are that 1100 of these are expected to be delivered within the plan period.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **WWTW** | **5. Estimated remaining headroom – planning permissions** | **6. Existing Allocations in Chichester** | **7. Existing Allocations in other areas ( plus proposed allocations in Havant )** | **8. Total allocations** | **9. Estimated remaining capacity with permissions and allocations ( 5-8)** | **10. Year by which capacity could be used up** |
| Bosham | 466 | 0 | 0 | 0 | 466 | Not in plan period |
| Chichester | -736 | 15 | 0 | 15 | -751 | No capacity now |
| Kirdford | 84 | 15 | 0 | 15 | 69 | Not in plan period |
| Lavant | -19 | 0 | 58 | 58 | -77 | No capacity now |
| Loxwood | -269 | 27 | 0 | 27 | -296 | 2021/22 |
| Pagham | -123 | 0 | 0 | 0 | -123 | 2026/7 |
| Sidlesham | 797 | 0 | 0 | 0 | 797 | Not in plan period |
| Tangmere | 2187 | 2077 | 0 | 2077 | 110 | Not in plan period |
| Thornham | 375 | 0 | 1610 ( 510 without Southleigh) | 1610 ( 510 without Southleigh) | -1235 (-135 without Southleigh ) | 2025/6 ( with or without Southleigh) |
| Wisborough Green | 200 | 11 | 0 | 11 | 189 | Not in plan period |
| Total | 2962 | 2145 | 1668 ( 568 without Southleigh) | 3813 (2713 without Southleigh) | -851 (249 without Southleigh) |  |

Source: CDC, HBC and Southern Water