

## Appendix 1

### Southern Water commitment to planned, costed improvements for Summer 2024

#### September Update

|   |   | Dates                   | September Update  |
|---|---|-------------------------|---|
| <b>Complete the sealing of public sewers where leaks have been found</b>  | As per SMB Infiltration Reduction Plan 10/04/2024 – Draft Doc   | April 2024 – March 2025 | 11 m of patch lining completed; 16 manhole chambers sealed  |
| <b>Survey the sewers to identify any other leaks on the public system</b>   | As per SMB Infiltration Reduction Plan 10/04/2024 – Draft Doc   | April 2024 – March 2025 | Just over 4 Km’s of sewer surveyed  |
| <b>Undertake surveys to gain a better understanding of the private sewer systems and to determine whether they are leaking.</b> | Where problems are identified SW will discuss sewer sealing proposals with the property owners.   | April 2024 – March 2025 | 8 private laterals flagged for action; rehab has already started on these   |
|   |   |                         |   |
| <b>Piping through Gangbridge Lane</b>   | Sealing out a high potential location for groundwater infiltration, the manhole often surrounded by water which is visible from the bridge                                    | Summer 2024             | Awaiting confirmation on survey of side line identified to enable lining through manhole. Scaffolding is being used to make access safe to enable this activity due to surrounding water  |
| <b>Addressing belly in sewer south of village</b>   | This pipe defect slows the flows of wastewater leaving ST Mary Bourne Village exacerbating the need for tankers in the village centre   | Summer 2024             | Engineers have ruled out overflow sewer as a viable alternative, as likely to move problem downstream and throttling such a small line could be problematic. We are back to Pipe-Bursting as the favoured option, and are looking to use a resin ground treatment to avoid the need for de-watering by effectively sealing the excavations for the launch and reception pits. This is a new technology for Southern Water |
| <b>Sealing of rider sewer to Holdaway WPS</b>   | Sewer sealing to reduce infiltration but with a direct impact on the spills from the manhole near Tudor Cottage, by reducing discharge frequency of the local pumping station | Summer 2024             | Added to specification for the lining team working through the village, this will be completed in the coming weeks  |
| <b>Lining of laterals from 4 properties to Holdaway</b>   | As above but taking into account the 4 private lateral connections at this point  | Summer 2024             | Added to specification for the lining team working through the village, this will be completed in the coming weeks  |

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| <b>Agreement to not pump basements to sewer</b> | As above but an action to ensure we do not have any basements pumping out to the sewer in questions  | Summer 2024 | Completed   |
| <b>Install pumped AFD at Applegate</b>          | A pumped Anti-Flood Device, the installation will mean that properties in Applegate are able to use their facilities all year round regardless of groundwater levels | Summer 2024 | Negotiating change of power supply to an alternative property. Design and agreements are being adjusted, some concerns around groundwater levels and the depth at which the lowest chamber ring section needs to be installed but we will be doing everything in our power to complete the work |

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|--|--|-------------|--|
| <b>Extend Rising Main from Bourneside by to rider sewer</b>    | This will re-direct the pressurised main from the micro pumping station to a secondary sewer system with more capacity, reducing the likelihood of spills at the Tudor Cottage manhole.                            | Summer 2024 | Completed  |
| <b>Connect 1 property to rider sewer</b>                       | Transferring Knapp Cottage to a secondary sewer, in order to allow residents to use their downstairs facilities year-round regardless of groundwater conditions  | Summer 2024 | Completed  |
| <b>End seals on existing liners (assume 10)</b>                | An issue spotted by some of our operational teams where water is passing between end of existing liners and the pipework, meaning infiltration still occurs on some lined sections of sewer                        | Summer 2024 | Ongoing as part of lining work, search, and seal. Expecting to find these in the village in the current phase of investigation which is happening under flow control to remove excess water  |
| <b>Leaking of wet well structure at Holdaway - investigate</b> | Potentially groundwater getting into the bottom of the small well of the pumping station at Holdaway Cottages – not confirmed but some calculations suggest more flow at this point than the pipes alone can carry | Summer 2024 | Complete - Identified ingress via ducting  |
| <b>Leaking of wet well structure at Holdaway</b>               | If above is found to be true, repair work to be carried out to address this  | Summer 2024 | Complete - Ingress has been addressed  |
| <b>Redirecting Holdaway Cottage rising main</b>                | A crucial action in which the rising main discharge from the village centre is re-directed downstream of the dog-leg in the sewer as it crosses the Bourne Rivulet,  | Summer 2024 | Still to be enabled but earliest completion would be summer 2025 due to extensive permitting associated with multiple designations. The sweeping bends solution has been assessed by our engineering team. They agree that it will add benefit, however it is less |

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|   | improving hydraulics and reducing the risk of spills  |             | is less clear if the amended plan to extend the radius within the 1500 mm chamber ring on the upstream side of the river will be as beneficial |
| <b>Extend rising main from Prosen House</b> | Reconnecting 3 properties to the secondary sewer in the village centre, to enable residents to have year round use of their facilities regardless of groundwater levels | Summer 2025 | Meeting on 2 <sup>nd</sup> of October to finalise plans with technical team and our surveyor, negotiations on power supply are underway        |