

APPENDIX F: BASEMENT BACKUP ANECDOTAL RECORDS

To date, there has not been a formal documentation or full cause evaluation process for sewer surcharge into basements. When customers have reported sewer back-ups during storm events, once the City ensures there is not a specific physical issue with the public sewer main line (sewer laterals are 100% private) and that it is flowing freely, customers have been informed that if they have a basement plumbing fixture that they need to check their backwater valve if they have one. If they do not have one, the City has directed them to work with a plumber to install one if one is not present. It is important to note that just because an area of the community has not reported a back-up does not necessarily mean that one has not occurred. On the other hand, when backups are reported, once the City Streets Division, which performs emergency operation and maintenance of sewer mains on behalf of the Water Resources Division, determines that the public main is flowing freely they have often not been further investigated – meaning that some number of the backup reports could be the result of OTHER causes of backup. This could include 1) roof drains or other stormwater inputs tied into the domestic system and overwhelming the capacity of the private lateral or 2) the water in the basement being stormwater/groundwater which has entered the basement via other means (I have this in my basement). As such the streets locations provided below likely include some locations that were NOT storm related surcharge events. However, some do line up with locations with street flooding and/or in the general proximity identified by the H/H analysis and are likely accurate.

Possible Storm Related Backups street location reports:

- Downhill/western side of N and S Willard Street
- Adsit Court
- North Champlain
- Pitkin Street
- Portions of downhill (western side) of South Prospect Street
- Properties on Church Street (this is where roof drains play a large role)
- Cherry St (likely roof drain)
- Summit Street
- North Street
- North Winooski
- Lafountain St.
- Corner Pomeroy and Hyde
- Brooks Ave
- Street flooding Willard at bottom of Loomis, bottom of Brooks
- Pearl Street
- North Willard
- North Prospect
- Henry Street
- Drew Street
- Strong Street
- Locust Terrace
- Foster Street
- Overlake Park
- Cross Parkway
- Fern Street
- Dale Road
- Oakland Terrace
- End of Bennington Court

- Eastern most buildings along the sewer interceptor at Strathmore
- Dewey Drive
- Killarney Drive

With the preliminary results of the H/H model showing the initial documented potential for predicted surcharge events both into the street and thus into unprotected homes, the City's thinking is evolving. We are looking to examples in other CSO communities such as DC Water where the municipality works with the homeowner to retrofit their sewer lateral against this direct public health threat, while acknowledging that, in accordance with code, it is ultimately the homeowner's responsibility to have and maintain these valves.

As work on the LTCP moves forward, we will be looking at the specific addresses reported in the past and during future storms on these roads and cross-referencing with the current H/H model findings and the model refinement that is underway in 2022. Areas with previous reports will also be high priority for re-metering in 2023 and beyond.

In addition to the re-metering in the surcharge predicted areas and more detailed H/H model calibration described in the draft LTCP, we will be working with the community to encourage the report of all backups and/or street flooding and will be implementing better tracking and investigation methods so that these reports can be categorized into likely related to sewer surcharge, related to internal roof drains/private stormwater inputs, or not related to storm events.