### Sump Pump Program Realtor Informational Meeting



### AUSTIN, MN April 17, 2018 4:00 PM City Hall – Council Chambers GROWING TOGETHER



# Meeting Objectives



- What is Infiltration and Inflow?
- Why are we doing this program?
- Discuss program approach and details
- Frequently asked questions



### What is I/I? Inflow and Infiltration





### Some Sources of I/I





# I/I in Austin



Austin System Description: Average Dry Weather (ADW) flow (MGD): 2.6 Average Wet Weather (AWW) flow (MGD): 6.3 Peak Instantaneous Wet Weather (PIWW) flow (MGD): 19.8 760% average





### Consequences of Excessive I/I



Low customer satisfaction Costs greater than needed Potential health risks Property damage Regulatory actions

### I/I's Effects on Austin



- Lift Station Upgrades
- Sewer Rate Increases
- Sanitary Sewer Overflows
- •EPA Enforcement Order



Why are we doing this program?



- Sump pump programs are typically the MOST cost effective method to reduce I/I in the system.
- Removing I/I from the sanitary sewer:
  - <u>Saves Money</u>: Reduces future rate increases
  - <u>It's the Neighborly thing to do</u>: Reduces potential for backups & property damage



### Example Flow Removal & Cost Public Sector vs. Private Sector





Example from Kutzky/Slatterly Pilot I/I Study, Rochester MN 2008 National averages range from 50/50 - 75/25

## Why a Sump Pump Program?



- A few sump pumps can make a big difference
  - Typical sump pump 20-100 gpm a piece
  - Typical 8" sewer capacity 350 gpm.
  - As few as FOUR pumps can take up the pipe capacity and cause a backup in the neighborhood.



- 20-100 gpm (Sump # 4)
- 20-100 gpm (Sump # 3)
- 20-100 gpm (Sump # 2)
- 20-100 gpm (Sump # 1)



### Sump Pump Program Approach



- Ordinance Modification
- Public Info
- Public Meetings
- Scheduling
- Inspections



### Key Aspects to Ordinance Revision



- Chapter 3 of Austin Code of Ordinances prohibited clear water connections before Amendment
- Amended Ordinance allows City to verify compliance.
   Key Aspects :
  - Sump pumps, beaver drains, footing drains, defective laterals, etc are prohibited from discharging to sanitary sewer
  - Rigid discharge piping, no valves or flex hose
  - Sump pits must have pumps
  - City, City's representative, or private plumber inspects
  - 30 days to inspect, 90 days to correct deficiencies
  - City can issue \$100/month surcharge for violations or no inspection

### **Realtor Information**



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- Point of Sale Inspection
  - Same inspection used during Sump Pump Program
  - Not required at this time.
  - Anticipated after all sectors are completed (2024)
- Required Paperwork
- Education of clients on future requirement

### Public Info





### Austin Sump Inspection

schedule inspection

A Public Informational

Chambers.

home program information FAQs notices inspection map contact

#### SUMP PUMP INSPECTION PROGRAM

#### Updated 4/11/2018

Received a Letter? Click Here to Schedule an Inspection Have a Ouestion? Please call toll free 844-630-0878.

#### Why is this important?

The City of Austin is starting a mandatory sump pump inspection program. To complete the program the City is divided in to six areas: Northwest, Southeast, Northwest (divided into two areas) and Southwest (divided into two areas). In 2018, Southeastern Austin- generally south of

A successful program benefits the City by reducing backups, protecting health, and Controlling costs

### Information available in print and on the web at

- www.AustinSump.com
- **City of Austin Social Media**



### Citywide Sectors





# **SE Inspection Sectors**





### The Inspection



- Completed in under 15 minutes, many under 5 minutes
- Adult must be present
- Inspector looks at:
  - Sump pumps
  - Beaver drains
  - Roof drains
  - Site grading
- Occupant and inspector signs
- Notice of Violation and instructional diagrams given if needed

### Installation Examples: Sump Pumps



-Rigid Pipe to Outside PROPER -Flex Hose to Drain *IMPROPER* 



### Installation Examples: Sump Pumps



### -Rigid Pipe to Outside PROPER

# -Flex Hose to Outside IMPROPER

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### Installation Examples: Beaver Drains



-Beaver Drain to Sump Pit PROPER -Beaver Drain to Floor Drain *IMPROPER* 

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### Installation Examples: Beaver Drain / Tile







### Inspection Form



|    | City of Austin                                                                                                                                                                                                                                             | Page 2 d                                                                                                                                                                               |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Sump Pump Inspection Report                                                                                                                                                                                                                                | •                                                                                                                                                                                      |
| Α. | Initial Inspection                                                                                                                                                                                                                                         |                                                                                                                                                                                        |
|    | 1. Owner and Address:                                                                                                                                                                                                                                      |                                                                                                                                                                                        |
|    | a. Owner Name(s):                                                                                                                                                                                                                                          |                                                                                                                                                                                        |
|    | D. Address:                                                                                                                                                                                                                                                |                                                                                                                                                                                        |
|    | d. Owner Address (s): (If different)                                                                                                                                                                                                                       |                                                                                                                                                                                        |
|    |                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |
|    | 2. Date of Initial Inspection:                                                                                                                                                                                                                             |                                                                                                                                                                                        |
|    | 3. Date of construction and Building Type? Building built in year(ex. 1959)                                                                                                                                                                                |                                                                                                                                                                                        |
|    | Note residential, apt., commercial, industrial:                                                                                                                                                                                                            |                                                                                                                                                                                        |
|    | <ol><li>History of backups or flooding? Note date, source, and actions taken:</li></ol>                                                                                                                                                                    |                                                                                                                                                                                        |
|    |                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |
|    |                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |
|    | <ol> <li>Does building have:</li> <li>a. ☐Yes ☐No Exterior grading sloping towards the building?</li> </ol>                                                                                                                                                |                                                                                                                                                                                        |
|    | b. ☐Yes ☐No Roof drains that go into the ground?                                                                                                                                                                                                           |                                                                                                                                                                                        |
|    | d. Yes No Seepage collection (beaver) system?                                                                                                                                                                                                              |                                                                                                                                                                                        |
|    | e.  Yes  No Sump pit?                                                                                                                                                                                                                                      |                                                                                                                                                                                        |
|    | 6. If building has a <b>roof drain</b> that goes into the ground, which of the following apply?                                                                                                                                                            |                                                                                                                                                                                        |
|    | <ul> <li>a. It is properly constructed to discharge to open air or storm system.</li> <li>b. It is improperly constructed to discharge into the sanitary sewer system.</li> </ul>                                                                          |                                                                                                                                                                                        |
|    | c. Discharge location not determined.                                                                                                                                                                                                                      |                                                                                                                                                                                        |
|    | 7. If there is a seepage collection (beaver) system, which of the following apply?                                                                                                                                                                         | DIAGRAM: roof arains into ground, exterior arains, improper grading, sump pits and<br>pumps, sump nump discharges, beaver systems, sanitary grinder pumps, etc                         |
|    | <ul> <li>a. It is properly constructed to discharge into a sump pit</li> <li>b. It is improperly constructed to discharge into the sanitary sewer system.</li> </ul>                                                                                       | [                                                                                                                                                                                      |
|    | c. Discharge location not determined.                                                                                                                                                                                                                      | B. Subsequent Inspection                                                                                                                                                               |
|    | 8. If there is a <b>sump pit</b> , which of the following apply?                                                                                                                                                                                           | 1. Data of subconvert increation:                                                                                                                                                      |
|    | <ul> <li>a.          Pump is properly plumbed to discharge outside the basement through rigid piping.     </li> <li>b.          Pump is improperly plumbed to discharge into the sanitary sewer system.     </li> </ul>                                    |                                                                                                                                                                                        |
|    | c. Pump has the capability of discharging into the sanitary sewer system (ex. flex hose).                                                                                                                                                                  | 2. Inspection conducted by                                                                                                                                                             |
|    | e. Discharge location not determined.                                                                                                                                                                                                                      | 3. Does the building now comply with the applicable Ordinance for the City of Austin?                                                                                                  |
|    | 9. Other comments (exterior drains, uncapped cleanouts, inactive sump pit, etc):                                                                                                                                                                           | ∐Yes ⊡No                                                                                                                                                                               |
|    |                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |
|    |                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |
|    |                                                                                                                                                                                                                                                            | I hereby verify that the City Representative I hereby verify that the City Representative                                                                                              |
|    | 10. Photos taken of Interior Summe and Collection Sustem, and Building Exterior?                                                                                                                                                                           | I hereby verify that the City Representative<br>has inspected the above-described sump<br>num and the information set forth above                                                      |
|    | 10. Photos taken of Interior Sumps and Collection System, and Building Exterior?                                                                                                                                                                           | I hereby verify that the City Representative<br>has inspected the above-described sump<br>pump and the information set forth above is<br>true and correct to the best of my knowledge. |
|    | <ol> <li>Photos taken of Interior Sumps and Collection System, and Building Exterior? Yes No</li> <li>If 6b, 7b, 8b or 8c was checked, a Violation Notice was given to the Occupant or Owner directing them to correct the violation by (date):</li> </ol> | I hereby verify that the City Representative<br>has inspected the above-described sump<br>pump and the information set forth above is<br>true and correct to the best of my knowledge. |
|    | <ol> <li>Photos taken of Interior Sumps and Collection System, and Building Exterior? Yes No</li> <li>If 6b, 7b, 8b or 8c was checked, a Violation Notice was given to the Occupant or Owner directing them to correct the violation by (date):</li> </ol> | I hereby verify that the City Representative<br>has inspected the above-described sump<br>pump and the information set forth above is<br>true and correct to the best of my knowledge. |

### Sump Pump Diagrams







### Questions?







**Contact and Project Information** 



- Contact/ Project information
  - Bryan Kaemingk, WHKS

507-288-3923

- Scheduling Website: AustinSump.com
- Call toll- free: (844) 630-0878

