

# Sump Pump Program Public Informational Meeting



**AUSTIN, MN**  
**April 16, 2019**  
**5:30 PM**  
**City Hall – Council Chambers**

**GROWING TOGETHER**

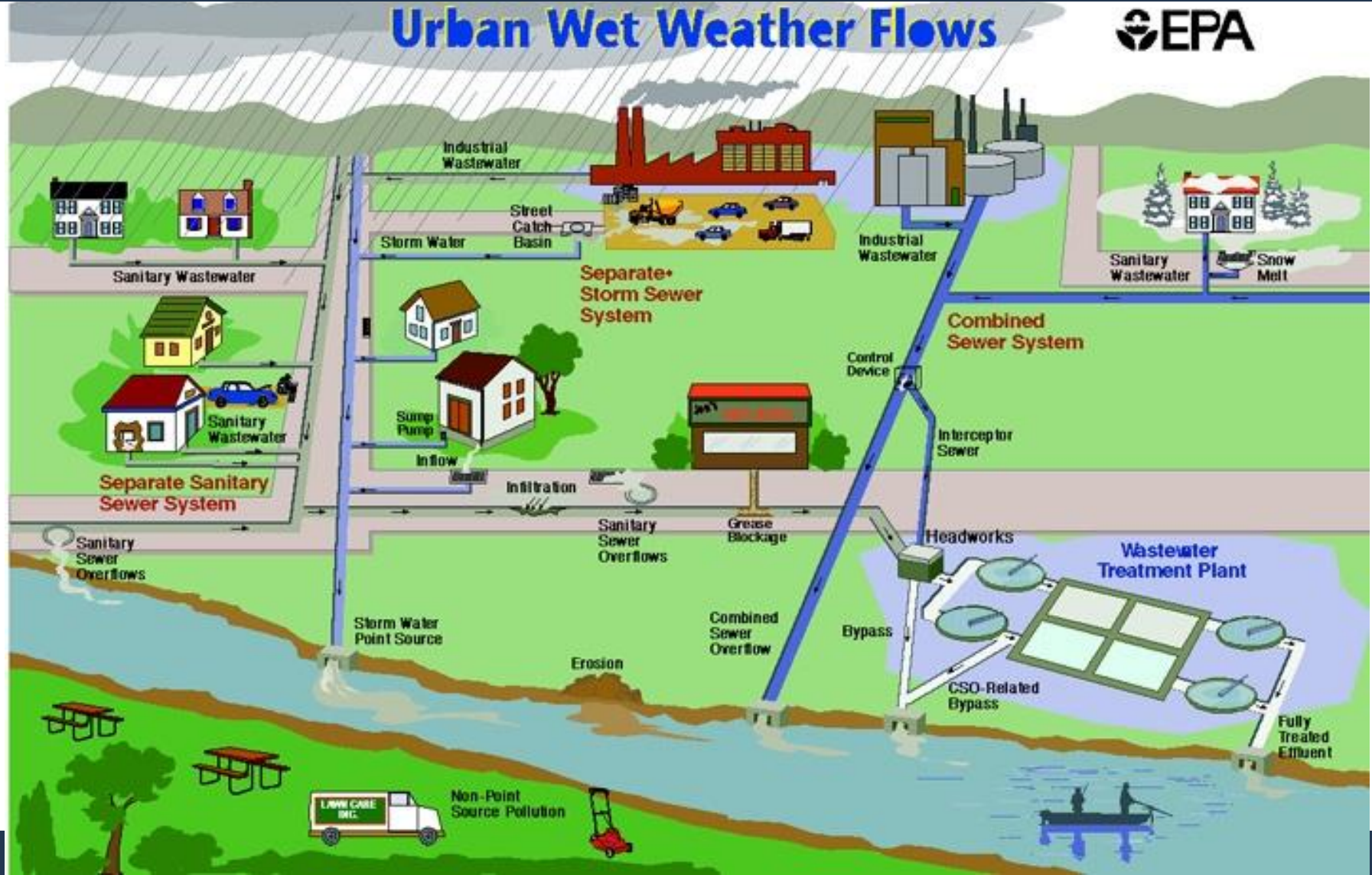
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# Meeting Objectives

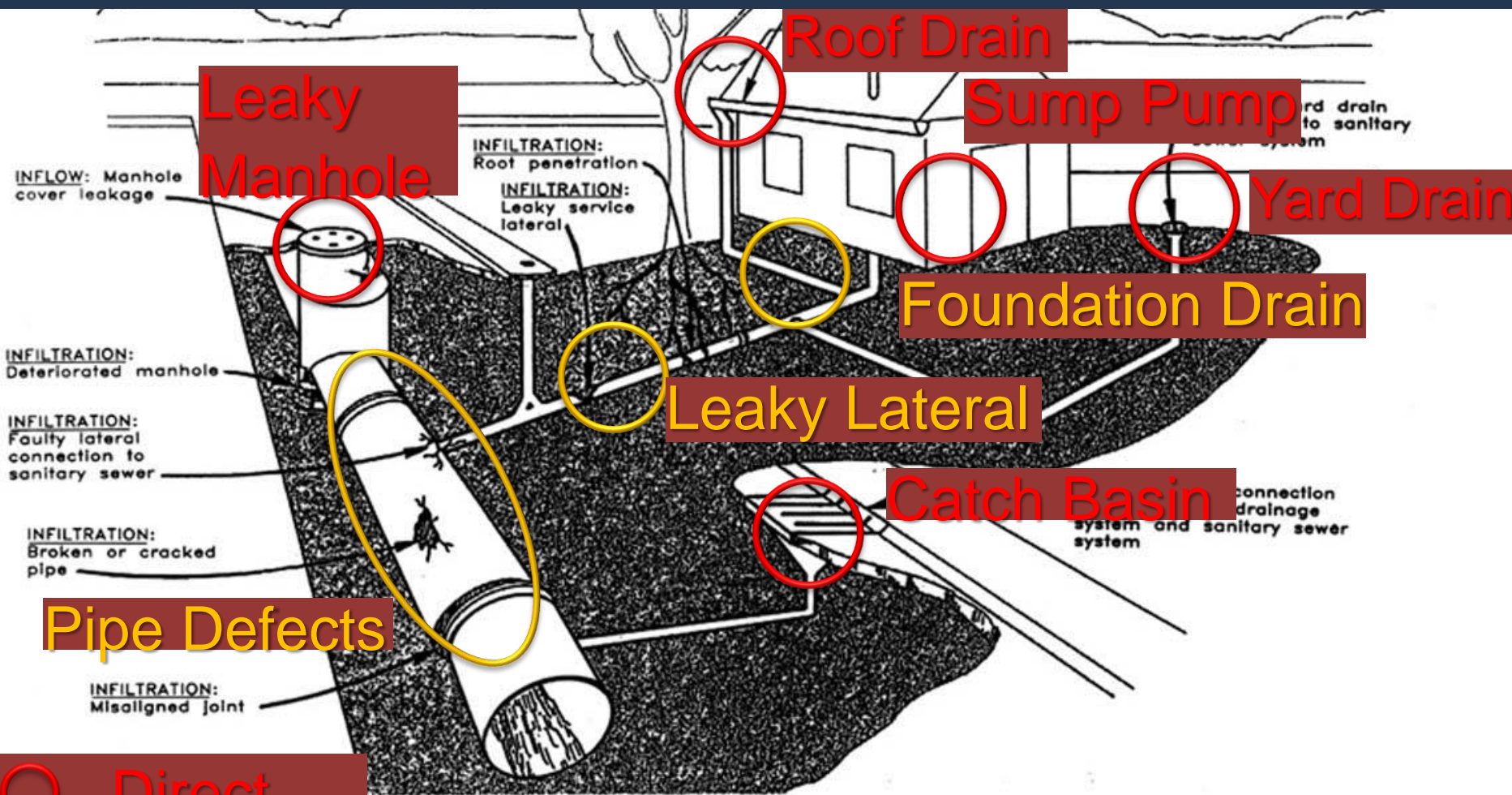


- **What is Infiltration and Inflow?**
- **Why are we doing this program?**
- **Discuss program approach and details**
- **Frequently asked questions**

# What is I/I? Inflow and Infiltration



# Some Sources of I/I



- Direct
- Indirect

## SANITARY SEWER PROBLEMS

# I/I in Austin

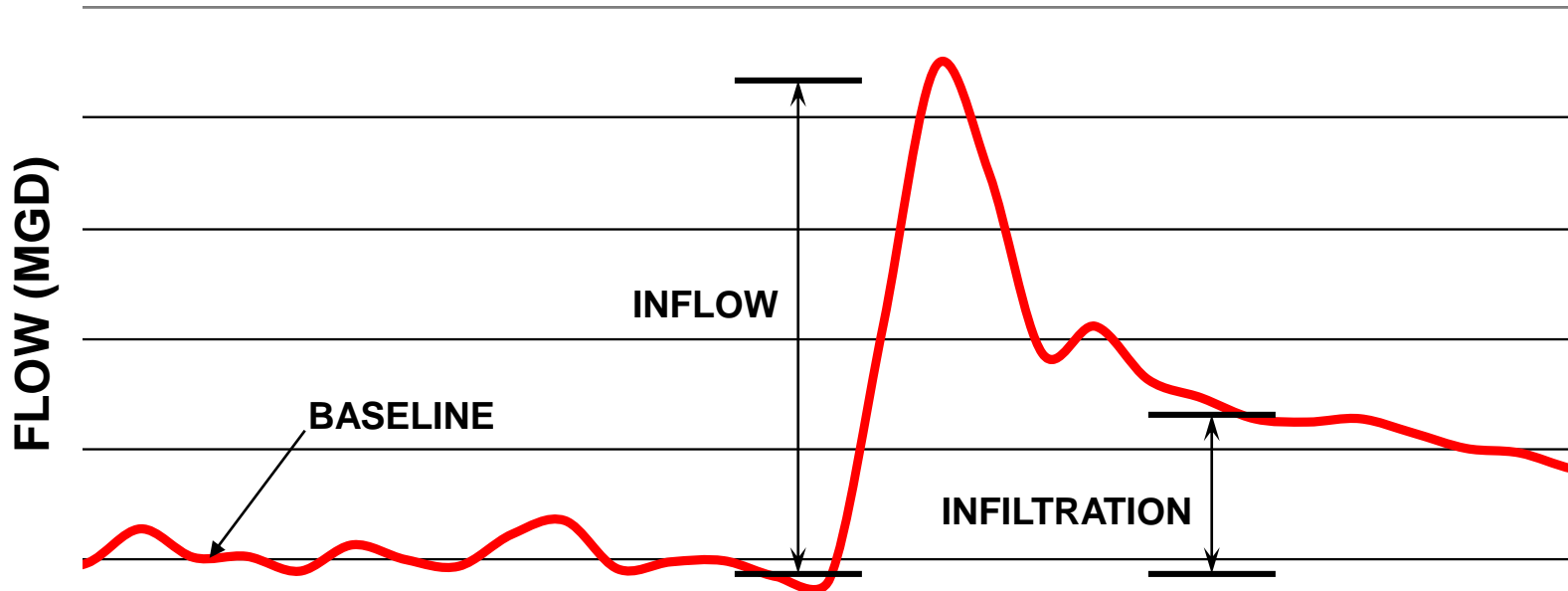
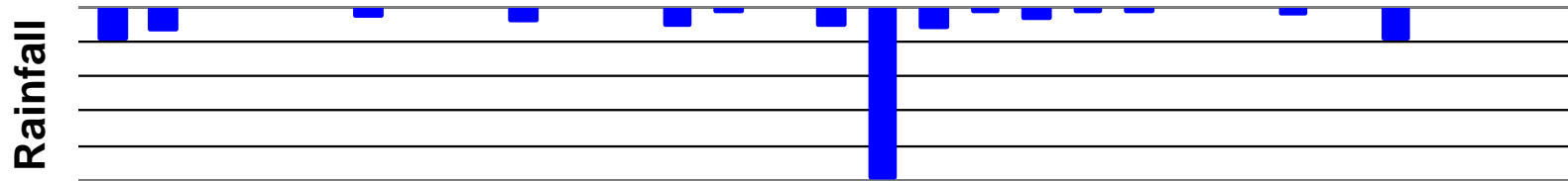


## Austin System Description:

Average Dry Weather (ADW) flow (MGD): 2.6

Average Wet Weather (AWW) flow (MGD): 6.3

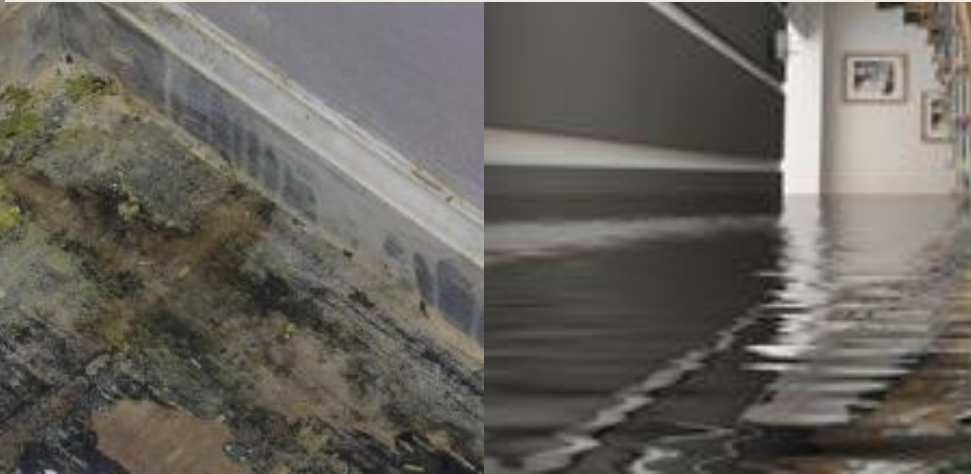
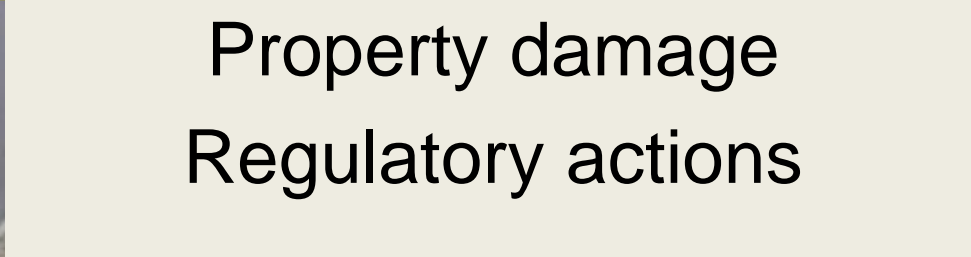
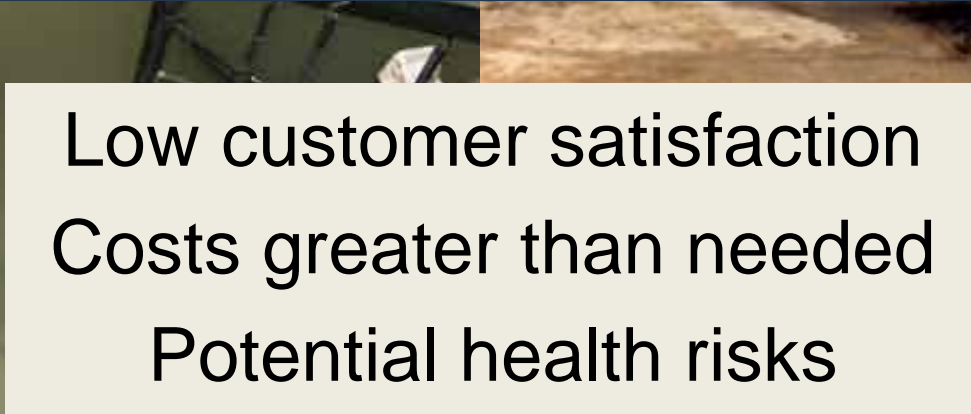
Peak Instantaneous Wet Weather (PIWW) flow (MGD): 19.8 **760% average**



# 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**
- **Extra Costs for WWTP Upgrades**

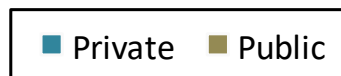
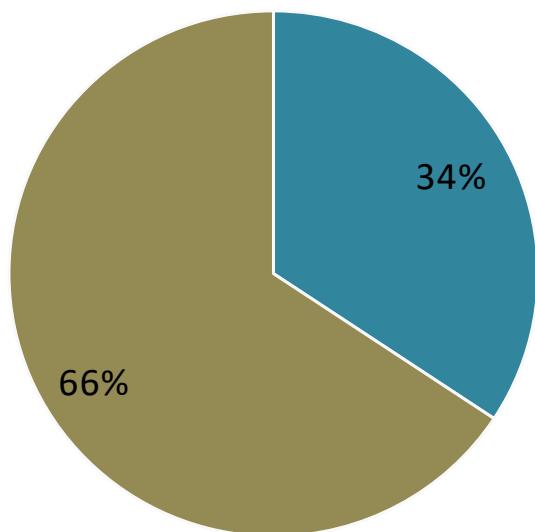
# Why are we doing this program?



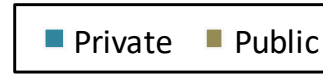
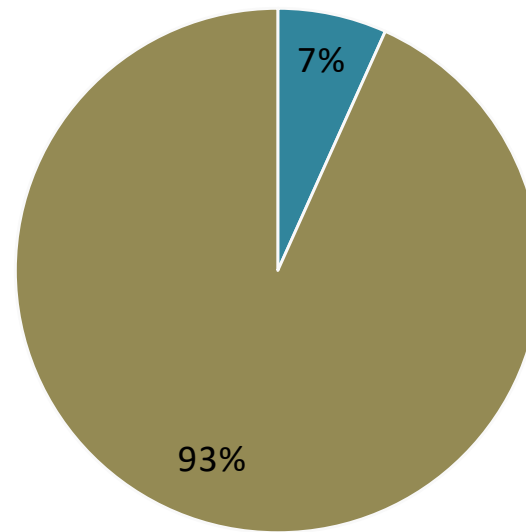
- Sump pump programs are typically the **MOST** cost effective method to reduce I/I in the system.
- Removing I/I from the sanitary sewer:
  - **Saves Money**: Reduces future rate increases
  - **It's the Neighborly thing to do**: Reduces potential for backups & property damage



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



**Sources of I/I**



**Cost to Remove I/I**

vs.

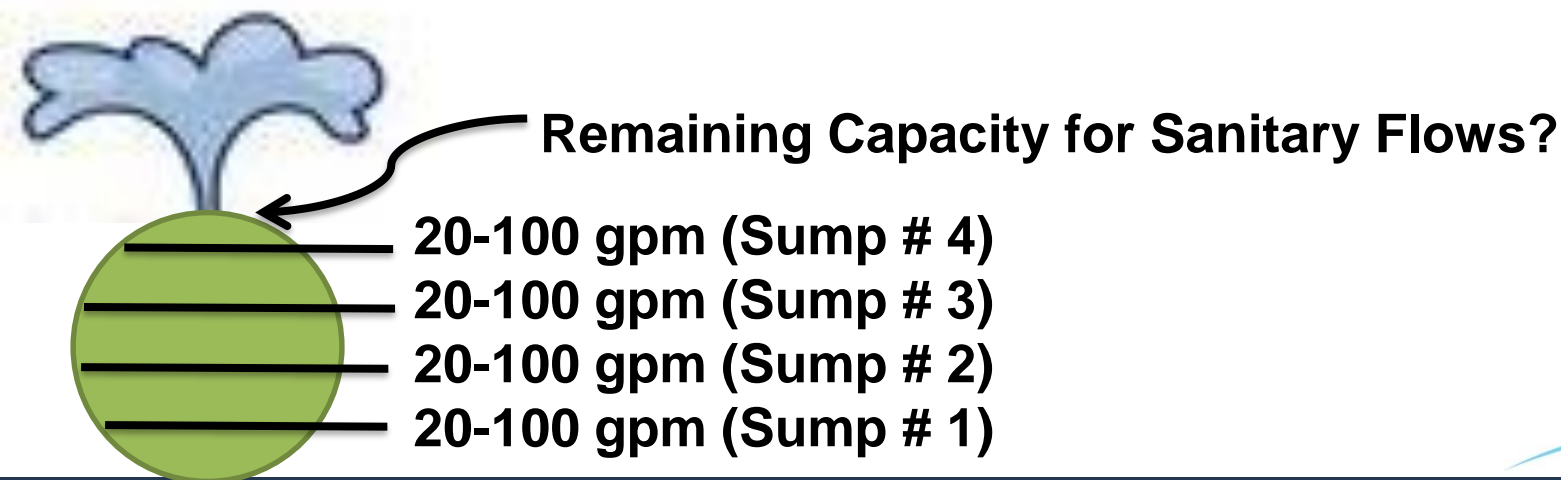
Example from Kutzky/Slatterly Pilot I/I Study, Rochester MN 2008  
National averages range from 50/50 - 75/25





# 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.**



# 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



# Public Info



**Austin Sump Inspection**

home program information FAQs notices inspection map contact schedule inspection

## SUMP PUMP INSPECTION PROGRAM

Updated 4/02/2019

Received a Letter? [Click Here](#) to Schedule an Inspection  
Have a Question? Please call toll free 844-630-0878.

**Why is this important?**

The City of Austin is continuing its mandatory sump pump inspection program. To complete the program the City is divided into six areas: Northeast, Southeast, Northwest (divided into two areas) and Southwest (divided into two areas). In 2019 Southwest Central Austin — generally south of Oakland Avenue West, west of Main Street South and northeast of Turtle Creek — will be inspected. In 2018, Southeastern Austin was inspected, and all other areas of Austin will be inspected in the following years.

Like many cities in Minnesota, Austin faces a challenge with its sanitary sewer collection system. During significant rainfall events the system is overloaded by excess ground water and rain water (clear water). When it rains, flows can jump up to eight times the normal rate. Overloaded sewers

**\*\* NEWS \*\***

A Public Informational Meeting will be held on **Tuesday April 16th 5:30 pm** at Austin City Hall in the Council Chambers.

Meeting will discuss the scheduling of inspections, length of inspections, proper sump pump connections and other miscellaneous items.

Information from the meeting will be posed in the Notices section after the meeting.

Information available in print and on the web at

- [www.AustinSump.com](http://www.AustinSump.com)
- City of Austin Social Media

**A successful program benefits the City by**

- reducing backups,
- protecting health, and
- Controlling costs



**Austin Daily Herald Article**

City of Austin  
500 Fourth Avenue N.E.  
Austin, Minnesota 55912-3773



Sump Pump Hotline  
Toll free 1-844-630-0878



April 2, 2019

To: Sump Inspection for building at  
RE: Sump Pump Inspection Program

The City of Austin prohibits the discharge of clear water into the sanitary sewer system. Clear water from any roof, surface, ground, sump pump, footing tile, swimming pool, seepage collection system ("beaver system") or other natural precipitation is prohibited from discharging into the sanitary sewer.

Due to evidence of non-compliance during recent inspections, the City has adopted an ordinance that requires **mandatory sump pump inspections** on all buildings with sewer accounts. The mandatory sump pump inspections will verify that sump pumps, roof drains, and other clear water sources are not connected to the sanitary sewer system. The engineering firm, WHKS & Co., is coordinating this program and will serve as Project consultant.

Why is the City conducting the sump pump inspections?

- Sump pump programs are typically the MOST cost effective method to reduce clear water from the sanitary sewer collection system.
- Removing clear water from the sanitary sewer
  - Protects your investment in the public infrastructure
  - Reduces the potential for backups and property damage
  - Helps the City increase customer satisfaction
  - Helps to ensure that future residential, commercial and industrial developments can be allowed within the City
- All buildings with sewer accounts will be inspected. A typical inspection is completed in under 15 minutes.

If you are receiving this letter, your inspection will take place during 2019. The Southwestern Central area of Austin — generally south of Oakland Avenue West, west of Main Street South and northeast of Turtle Creek—will be inspected in 2019. In 2018, Southeastern Austin was inspected, and all other areas of Austin will be inspected in the following years. The Southwestern Central area will be separated into approximately five sectors, designated by a color (red, yellow, green, blue and purple), to stagger inspection times throughout the year. You will be contacted by letter at a later time to inform you of your sector color and to invite you to schedule your inspection.

The City will host a **public informational meeting on Tuesday, April 16, 2019 at 5:30 pm at Austin City Hall in the Council Chambers** to discuss the scheduling of inspections, length of inspection, proper sump pump connection, and other miscellaneous items.

Your anticipated cooperation is greatly appreciated in completing this program. If you have any questions, or would like to review the Ordinance, please contact the WHKS & Co. office toll free at 1-844-630-0878.

Sincerely,

Steven J. Lang P.E. – City Engineer

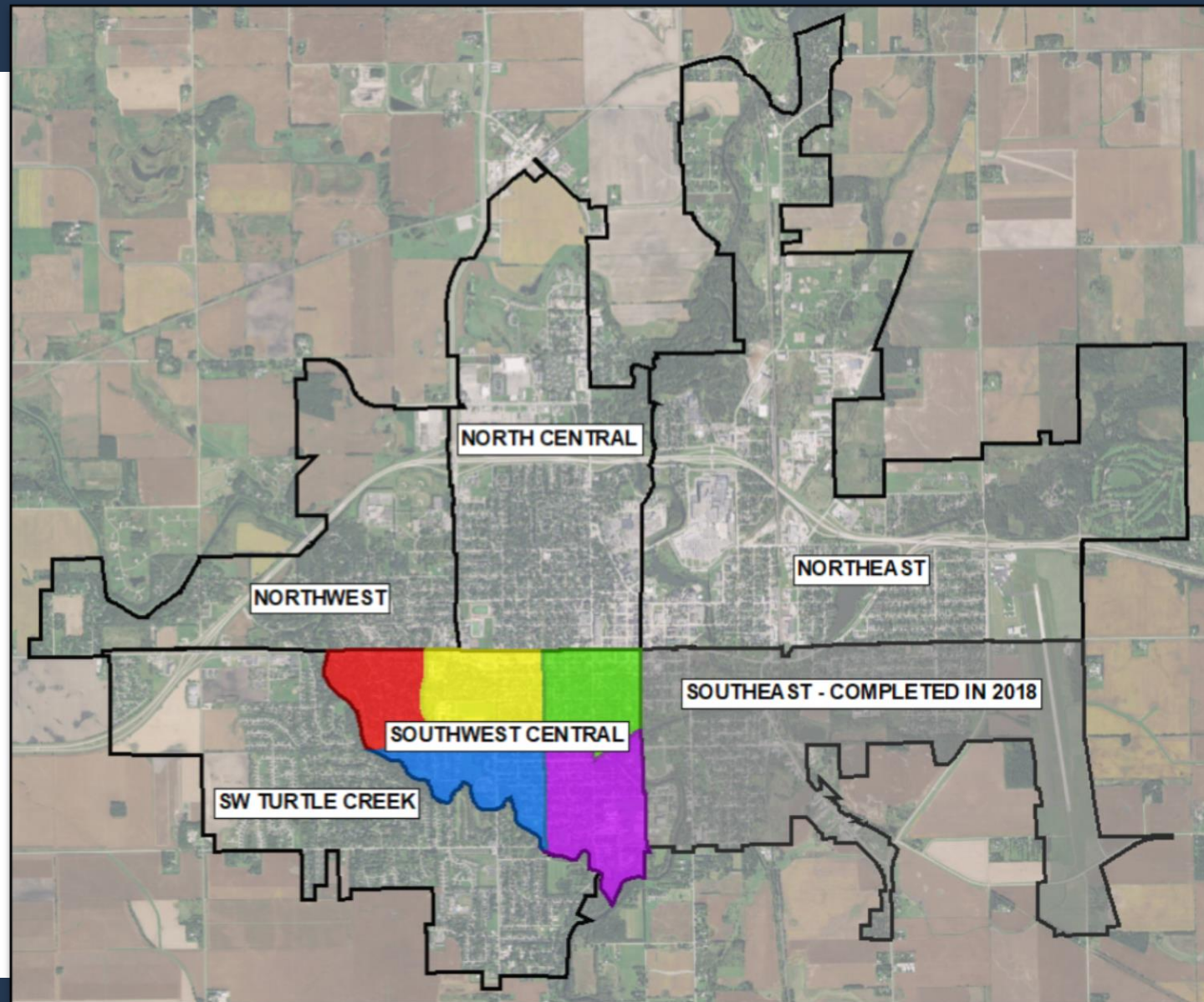
Invitation  
to attend  
public info  
meeting  
and  
schedule  
inspection

# Scheduling



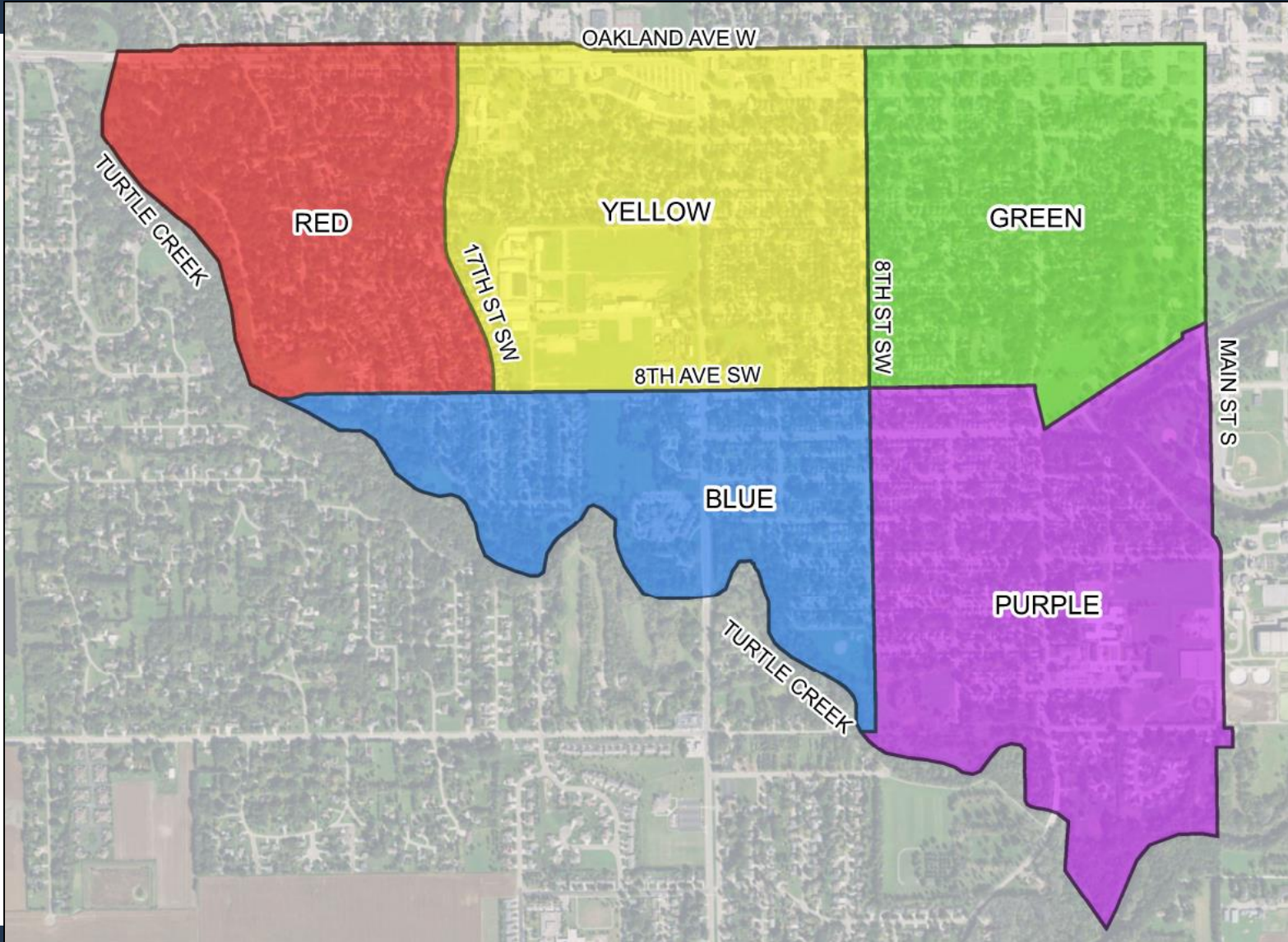
- **All inspections are scheduled, no door-to-door inspections.**
- **Scheduling is fast and easy**
- **Schedule through website or telephone**
- **Residents will receive a letter when it is time for their sector to schedule inspections.**

# Citywide Sectors





# 2019 - SWC Inspection Sectors





# Scheduling and Info Website

## AustinSump.com



## Austin Sump Inspection

[home](#) [program information](#) [FAQs](#) [notices](#) [inspection map](#) [contact](#)

[schedule inspection](#)

## SUMP PUMP INSPECTION PROGRAM

Updated 4/02/2019

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### Why is this important?

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Like many cities in Minnesota, Austin faces a challenge with its sanitary sewer collection system. During significant rainfall events the system is overloaded by excess ground water and rain water (clear water). When it rains, flows can jump up to eight times the normal rate. Overloaded sewers lead to basement backups, and in extreme cases, require bypassing flow directly to the river. This

#### \*\* NEWS \*\*

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Information from the meeting will be posed in the [Notices](#) section after the meeting.

*whks*

# Scheduling and Info Website

## AustinSump.com



### Scheduling Calendar

			1	2	3	4	<h3>April 22</h3> <p>Click the time below to schedule.</p> <ul style="list-style-type: none"><li>7:15am - 7:30am</li><li>7:30am - 7:45am</li><li>9:15am - 9:30am</li><li>9:45am - 10:00am</li><li>10:30am - 10:45am</li><li>11:00am - 11:15am</li><li>11:15am - 11:30am</li><li>11:30am - 11:45am</li><li>11:45am - 12:00pm</li><li>12:00pm - 12:15pm</li><li>12:15pm - 12:30pm</li><li>12:45pm - 1:00pm</li><li>2:00pm - 2:15pm</li><li>2:15pm - 2:30pm</li><li>2:30pm - 2:45pm</li><li>2:45pm - 3:00pm</li><li>3:00pm - 3:15pm</li><li>3:15pm - 3:30pm</li><li>3:30pm - 3:45pm</li><li>3:45pm - 4:00pm</li><li>5:00pm - 5:15pm</li><li>5:15pm - 5:30pm</li><li>5:45pm - 6:00pm</li><li>6:00pm - 6:15pm</li></ul>
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	



# Scheduling and Info Website

## AustinSump.com

### Resident Welcome Screen

## Schedule Inspection

You have an inspection appointment scheduled for April 21, 8:00 AM



#### Schedule Inspection

Select a time for an inspection.



#### Edit Notes

Provide special instructions for inspectors or other information about your property.



# Scheduling and Info Website

## AustinSump.com

### Resident Log Out & Appointment Confirmation

## You are Logged Out

Yay!

You have logged out. You have an inspection appointment scheduled for 04/21/2015 8:00 AM Thank you for participating in this program.

*whks*

# 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**



# Inspector Identification

AUSTIN - I/I PROGRAM INSPECTOR



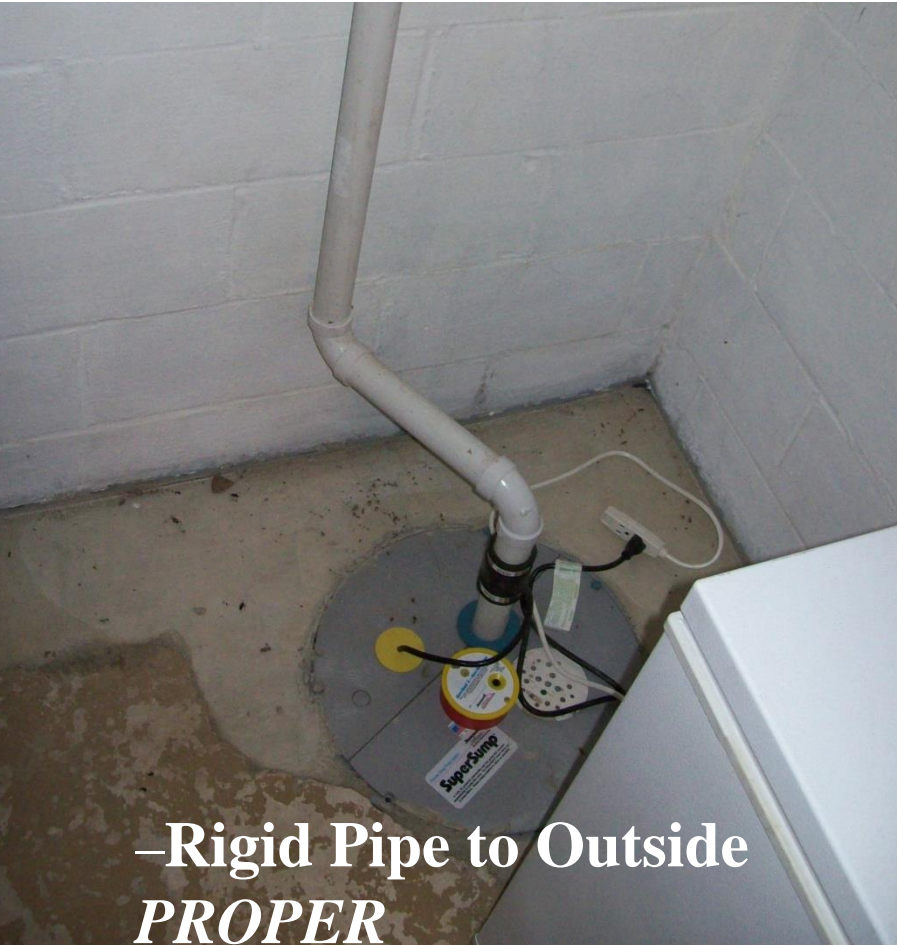
MICHAEL OTOMO

*whks*

- All inspections are scheduled
- No door-to-door
- WHKS logos on
  - Badges
  - Clothing
  - Vehicles

*whks*

# Installation Examples: Sump Pumps



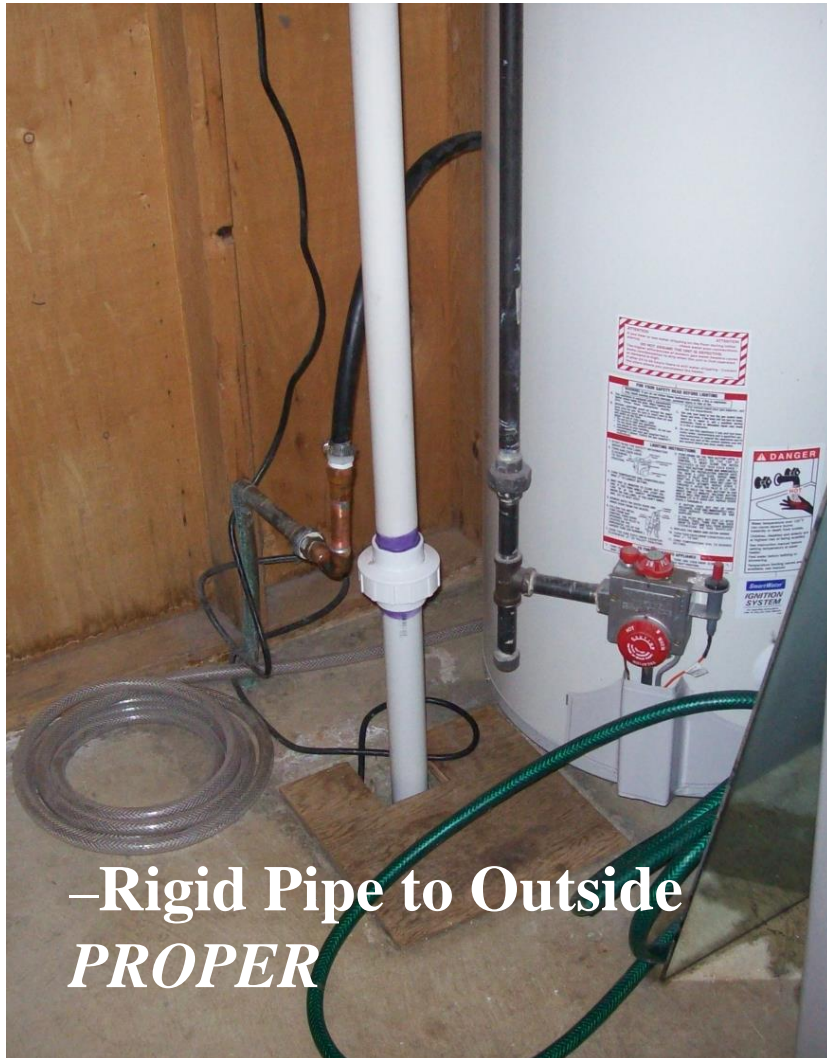
-Rigid Pipe to Outside  
*PROPER*



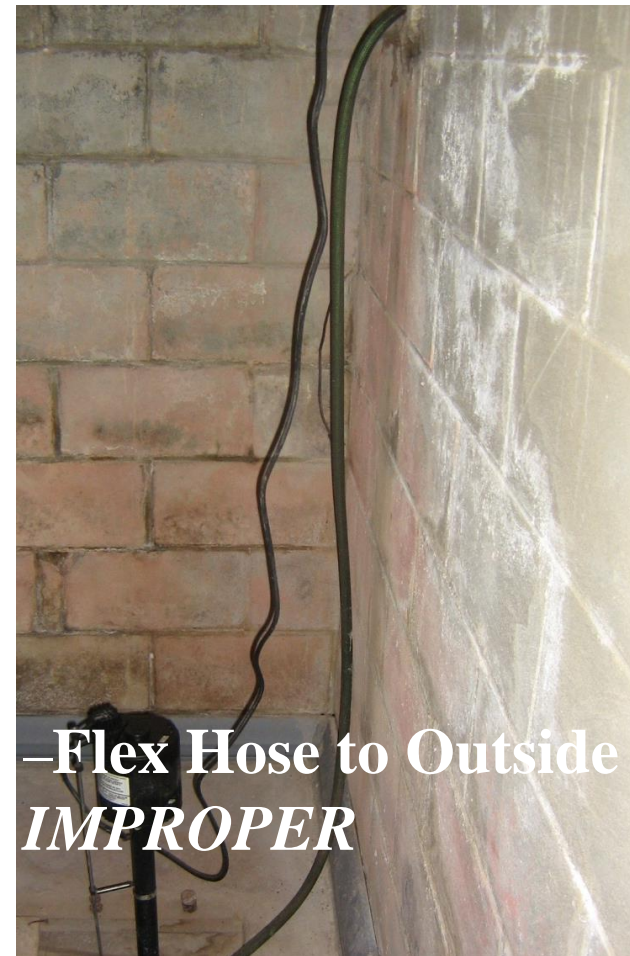
-Flex Hose to Drain  
*IMPROPER*



# Installation Examples: Sump Pumps

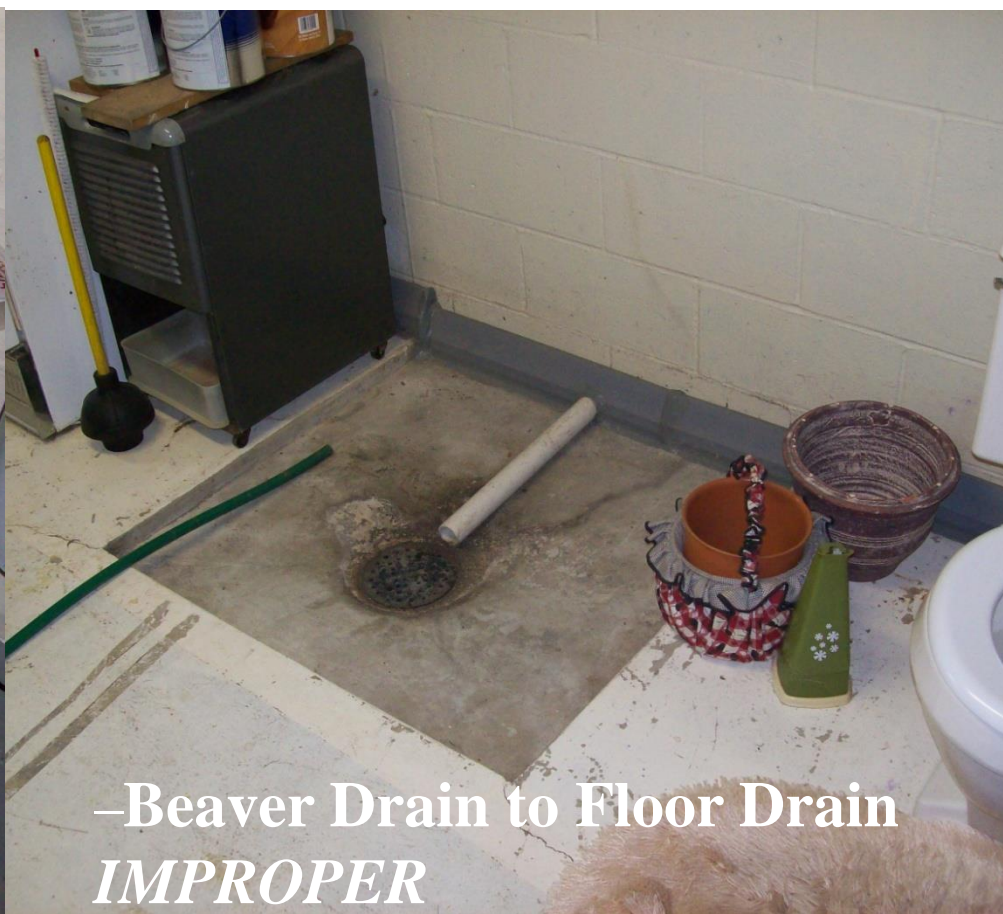


-Rigid Pipe to Outside  
*PROPER*



-Flex Hose to Outside  
*IMPROPER*

# Installation Examples: Beaver Drains



# Installation Examples: Beaver Drain / Tile



# Inspection Form



Inspector \_\_\_\_\_  
 Plumbing License # \_\_\_\_\_

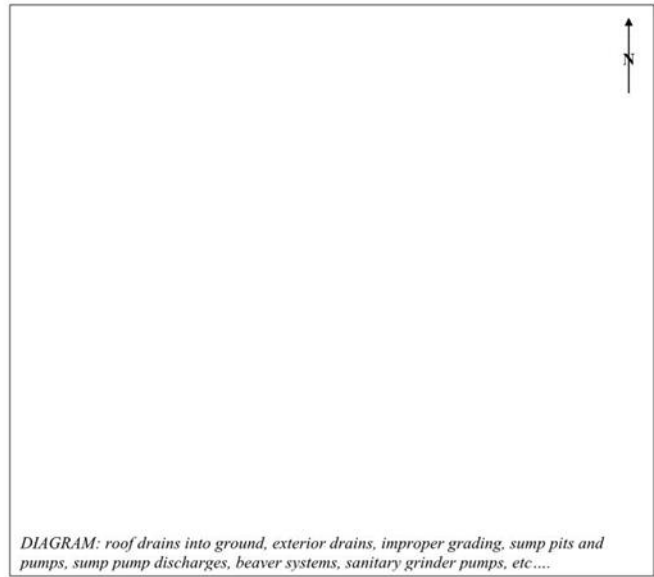
**City of Austin  
 Sump Pump Inspection Report**

**A. Initial Inspection**

1. Owner and Address:
  - a. Owner Name(s): \_\_\_\_\_
  - b. Address: \_\_\_\_\_
  - c. Occupants Name (If different): \_\_\_\_\_
  - 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: \_\_\_\_\_
  
4. History of backups or flooding? Note date, source, and actions taken: \_\_\_\_\_  
 \_\_\_\_\_
  
5. Does building have:
  - a.  Yes  No Exterior grading sloping towards the building?
  - b.  Yes  No Roof drains that go into the ground?
  - c.  Yes  No Basement?
  - d.  Yes  No Seepage collection (beaver) system?
  - e.  Yes  No Sump pit?
  
6. If building has a **roof drain** that goes into the ground, which of the following apply?
  - a.  It is properly constructed to discharge to open air or storm system.
  - b.  It is improperly constructed to discharge into the sanitary sewer system.
  - c.  Discharge location not determined.
  
7. If there is a **seepage collection (beaver) system**, which of the following apply?
  - a.  It is properly constructed to discharge into a sump pit
  - b.  It is improperly constructed to discharge into the sanitary sewer system.
  - c.  Discharge location not determined.
  
8. If there is a **sump pit**, which of the following apply?
  - a.  Pump is properly plumbed to discharge outside the basement through rigid piping.
  - b.  Pump is improperly plumbed to discharge into the sanitary sewer system.
  - c.  Pump has the capability of discharging into the sanitary sewer system (ex. flex hose).
  - d.  There is a pit with no pump. Plumbing is checked as (a) (b) or (c) if present.
  - e.  Discharge location not determined.
  
9. Other comments (exterior drains, uncapped cleanouts, inactive sump pit, etc): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
  
10. Photos taken of Interior Sumps and Collection System, and Building Exterior?  Yes  No
  
11. 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): \_\_\_\_\_

PASS \_\_\_\_\_      FAIL \_\_\_\_\_      City Follow-Up \_\_\_\_\_

Property Address \_\_\_\_\_ Page 2 of 2



**B. Subsequent Inspection**

1. Date of subsequent inspection: \_\_\_\_\_
2. Inspection conducted by \_\_\_\_\_
3. Does the building now comply with the applicable Ordinance for the City of Austin?  
 Yes  No

I hereby verify that the City Representative has inspected the above-described sump pump and the information set forth above is true and correct to the best of my knowledge.

\_\_\_\_\_  
**Occupant/Owner**

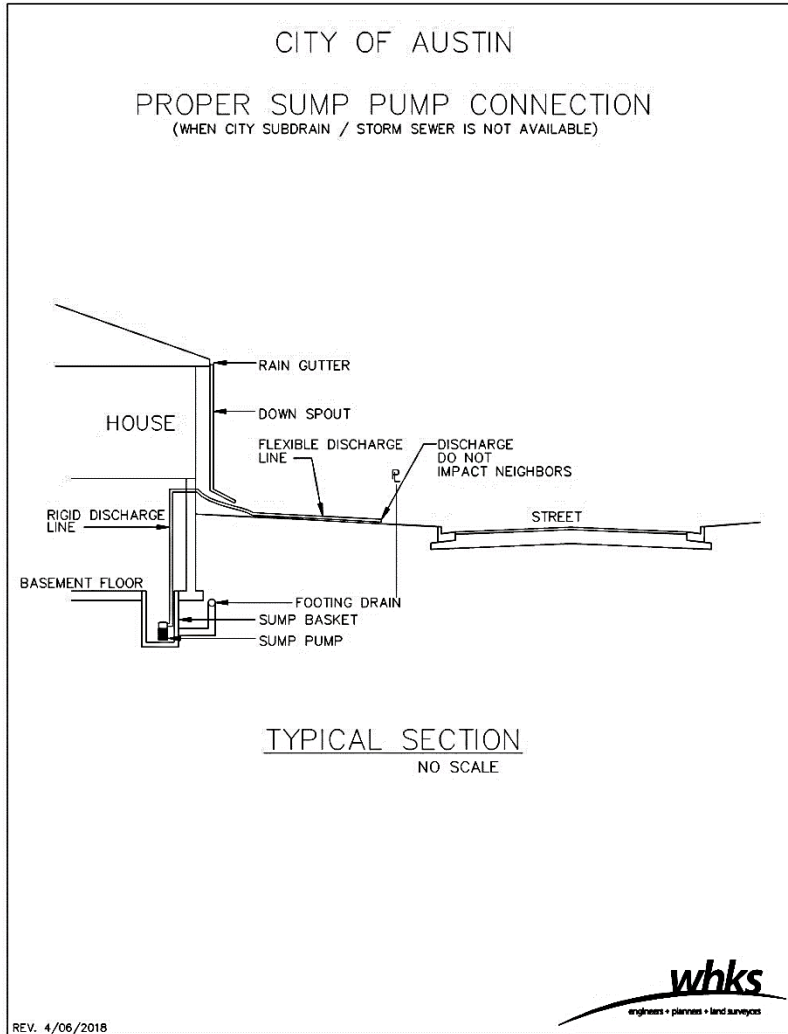
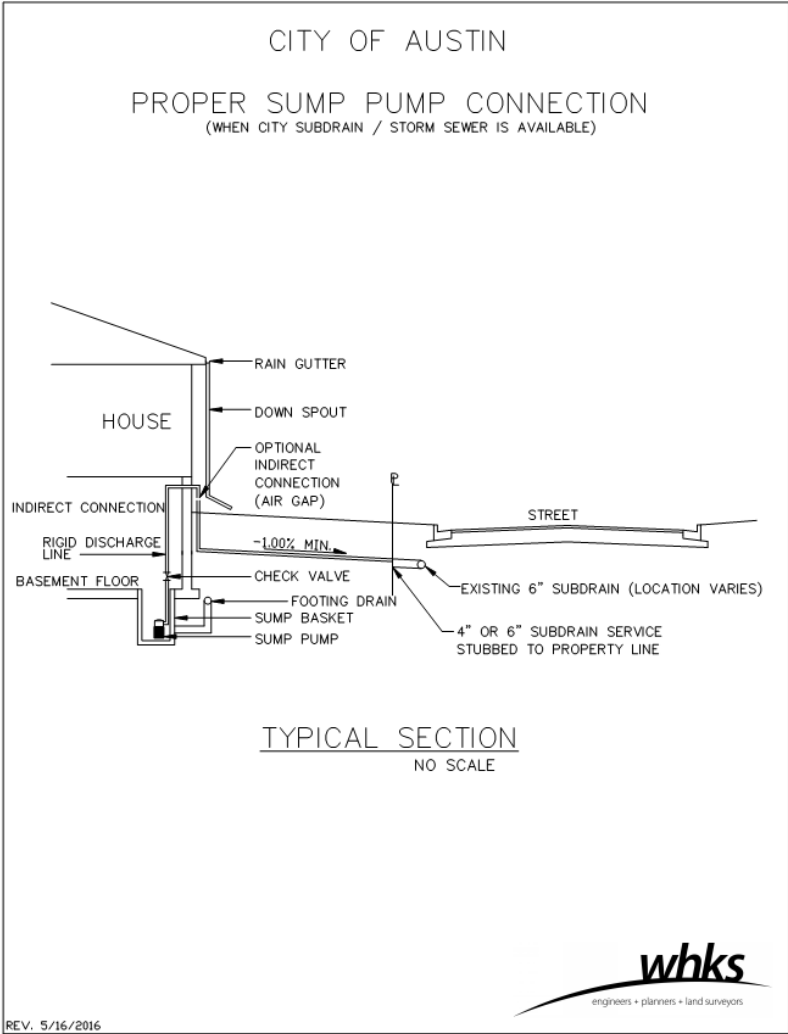
Date \_\_\_\_\_

I hereby verify that the City Representative has inspected the above-described sump pump and the information set forth above is true and correct to the best of my knowledge.

\_\_\_\_\_  
**City Representative**  
 Licensed Plumbers: sign with license #.

Date \_\_\_\_\_

# Sump Pump Diagrams



# Approximate Inspection Timeline



Item	Date
<b>Public Information Meeting</b>	<b>Apr 16, 2019</b>
<b>Red Sector Inspections Begin</b>	<b>May 2019</b>
<b>Yellow Sector Inspections Begin</b>	<b>May 2019</b>
<b>Green Sector Inspections Begin</b>	<b>June 2019</b>
<b>Blue Sector Inspections Begin</b>	<b>July 2019</b>
<b>Purple Sector Inspections Begin</b>	<b>August 2019</b>
<b>All Inspections Complete</b>	<b>Nov 2019</b>

# Next Steps



- 1. Wait for scheduling letter to arrive.**
- 2. Then contact us by phone or login to website to schedule the appointment.**

# Questions?





# Contact and Project Information



- Contact/ Project information
  - Bryan Kaemingk, WHKS 507-288-3923
  - Scheduling Website: [AustinSump.com](http://AustinSump.com)
  - Call toll- free: (844) 630-0878