Algona Sanitary Sewer Connection Inspection Program Public Informational Meeting

Date: October 15, 2024 at 6pm

Algona Public Library - Conference Room A

Presenters:

Kevin Graves, P.E.

Emma Nollenberger, E.I.T.



Meeting Objectives



Objective One

What is inflow and infiltration?



Objective Two

Why are we doing this program?



Objective Three

Discuss program approach and details



Objective Four

Frequently asked questions



What is I/I? Inflow and Infiltration

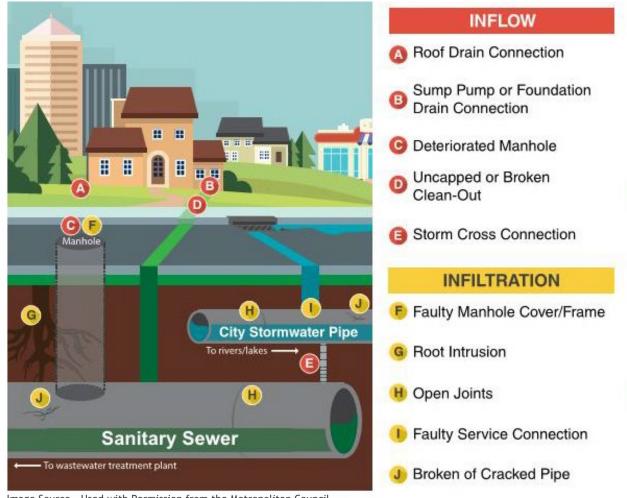
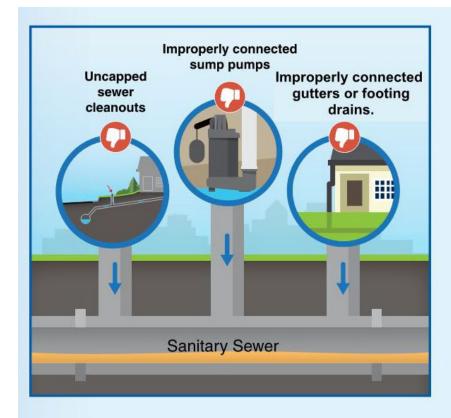


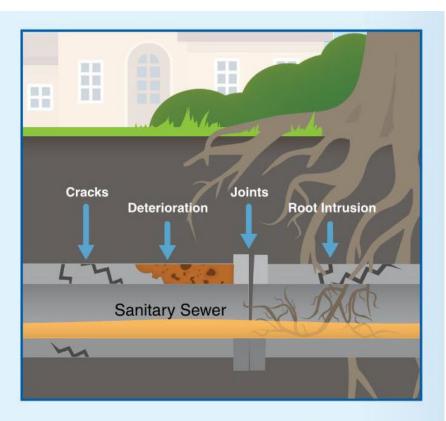


Image Source - Used with Permission from the Metropolitan Council

Some Sources of I/I



Inflow is clear water that quickly enters the wastewater system after rainfall events from sources such as sewer cleanouts, sump pumps, gutters, building foundation drains, and broken maintenance hole covers.



Infiltration is clear water that gradually enters the wastewater system below ground through cracks and openings in sewer service lines and joints, and public sewer mains and deteriorated maintenance holes.



I/I in Algona

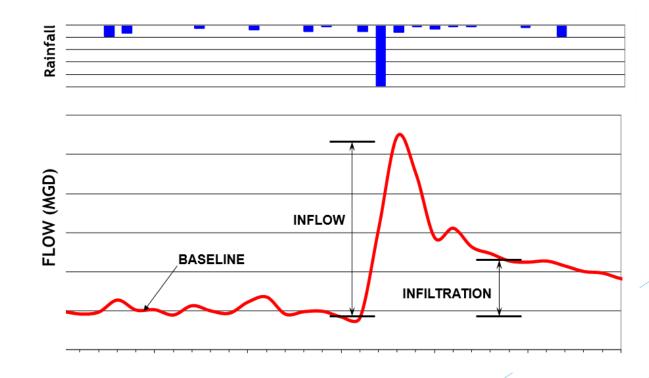
Algona System Description:

Average Dry Weather (ADW) flow (MGD): 1.32

Average Wet Weather (AWW) flow (MGD): 2.72

Peak Instantaneous Wet Weather (PIWW) flow (MGD): 6.08

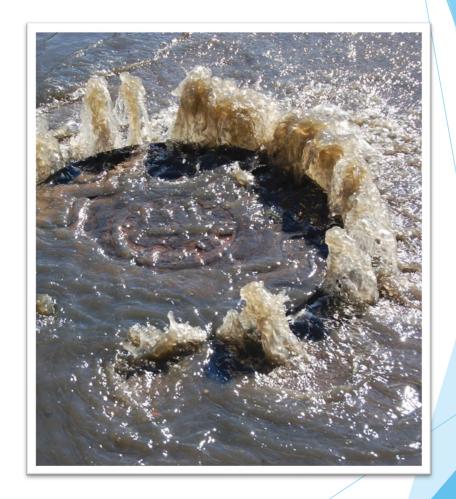
460% Average





Consequences of Excessive I/I

- Low customer satisfaction
- Costs greater than needed
- Potential health risks
- Property damage
- Regulatory actions
- Sanitary sewer overflows
- Extra costs for WWTF upgrades





Why are we doing this Program?

- ► Lateral & sump pump inspection programs are typically the MOST cost effective method to reduce I/I in the system
 - Priority for this program is footing/roof drain connections
 - Sump inspections are supplemental
- Removing I/I from the sanitary sewer:
 - Saves money: Reduces future rate increases









Sanitary Sewer Connection Inspection Program Approach

- Ordinance Review
- Public Info
- Public Meetings
- Scheduling
- Inspections





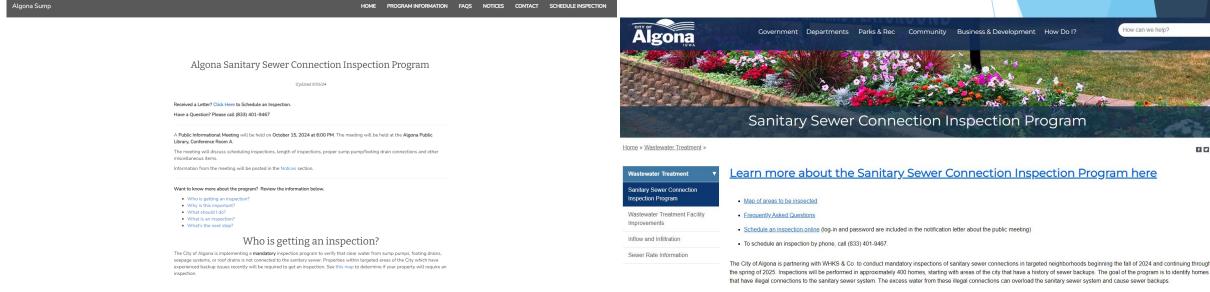
Key Aspects to Ordinance Review

- ► Title 13 of Algona's Code of Ordinances prohibits clear water connections
- Ordinance allows City to verify compliance
 - Key Aspects:
 - Sump pumps, beaver drains, footing drains, roof drain, etc. are prohibited from discharging to sanitary sewer
 - 30 days to schedule inspection, 90 days to correct sump deficiencies, 365 days to correct lateral deficiencies
 - City can issue \$100/month surcharge for no inspection or not correcting violations within above timeframes

- Title 13 PUBLIC SERVICES
 - Chapter 13.04 SEWER SERVICE SYSTEM
 - Article I. General Provisions
 - Article II. Building Sewers and Connections
 - Article III. Use of Public Sewers
 - Article IV. Private Sewer Systems
 - Article V. Surface Runoff and Groundwater Discharge to Sanitary Sewer



Public Info



Information available in print and on the web at

- www.AlgonaSump.com
- City of Algona Social Media

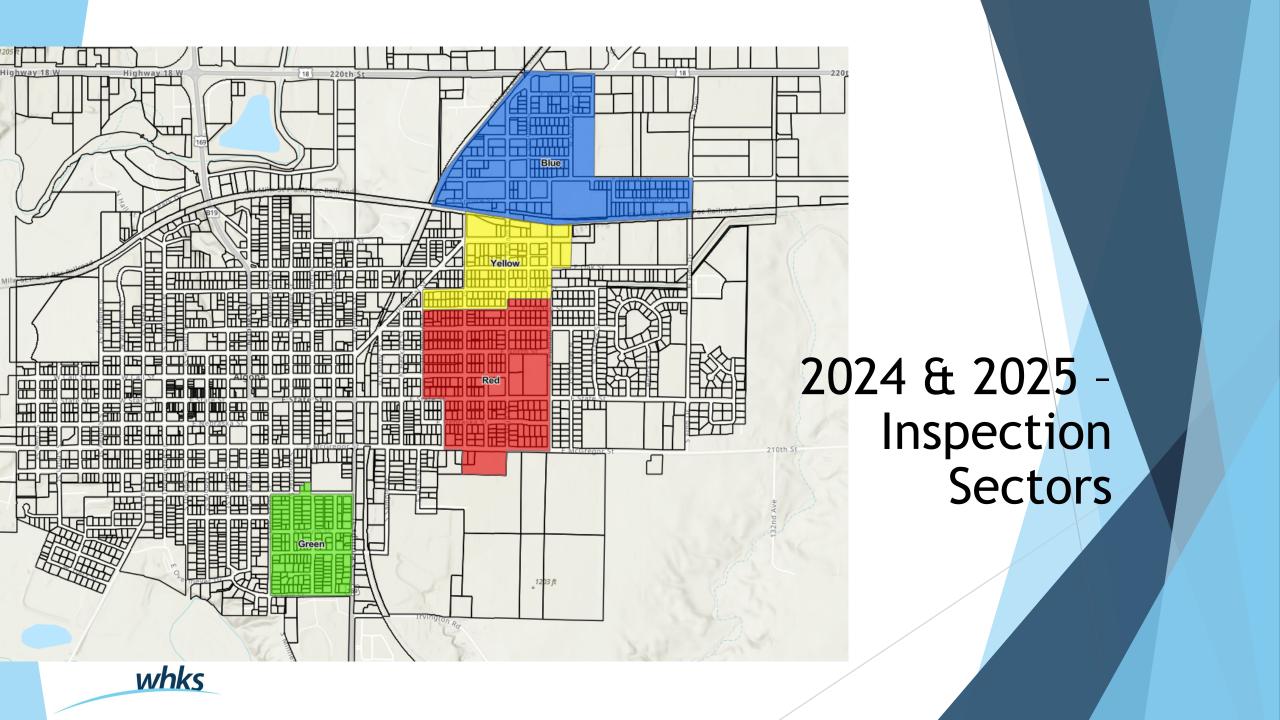


How can we help?

City of Algona Website

• www.algonaiowa.gov





Invitation to attend public info meeting and schedule inspection (red sector only).

Invite will be sent to additional sectors in spring 2025



112 W. Call Street, Algona, IA 50511 Phone: 515-295-2411 www.algonaiowa.gov

DATE: October 3, 2024

O: John Sample

Inspection for building at 123 Sample ST

Login: 123456789

Password (case sensitive): 123a

RE: Sanitary Sewer Connection Inspection Program

Dear Property Owner:

The purpose of this letter is to notify you of an upcoming, mandatory sanitary sewer inspection program in your neighborhood and an associated public meeting.

Beginning this October, the <u>City</u> will conduct mandatory inspections of sanitary sewer connections in targeted areas of the City that have experienced sewer backups in recent years. The City has hired WHKS & Co. to coordinate and conduct the inspections on behalf of the City, at no cost to apperty owners.

The inspection will check footing (foundation) drains, sump pumper and other potential sources clear water that may be illegally connected to the sanitary sevents, excess clear water entering the system through a werload the sanitary sewer, which can lead to basement backups and require

The <u>City</u> will host a public informational me <u>Conference Room A</u>. The meeting viconnections, and other related topics. __er 15th at 6:00 pm at the <u>Algona Public Library</u> .ne program, inspection scheduling, proper sewer

How to schedule an inspection: Inspections may be scheduled in one of two ways:

- 1) Visit www.AlgonaSump.com and use the login and password provided at the top of this letter.
- Call WHKS & Co. toll-free at (833) 401-9467 between 8am-5pm on Monday-Thursday and 8am-12pm on Friday. If calling after hours, please leave a message with your name and phone number, and you will receive a call back on the next business day.

Inspections typically are completed in 30 minutes. An adult must be present during the inspection.

Your anticipated cooperation is greatly appreciated in helping to complete this program. For more information about the program and scheduling your inspection, please visit www.AlgonaSump.com or call (833) 401-9467.

Sincerely,

Jacob Tjaden City Administrator



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.







Algona Sump HOME PROGRAM INFORMATION FAQS NOTICES CONTACT SCHEDULE INSPECTION OF

Algona Sanitary Sewer Connection Inspection Program

Updated 8/05/24

Received a Letter? Click Here to Schedule an Inspection.

Have a Question? Please call (833) 401-9467

A Public Informational Meeting will be held on October 15, 2024 at 6:00 PM. The meeting will be held at the Algona Public Library, Conference Room A.

The meeting will discuss scheduling inspections, length of inspections, proper sump pump/footing drain connections and other miscellaneous items.

Information from the meeting will be posted in the Notices section.

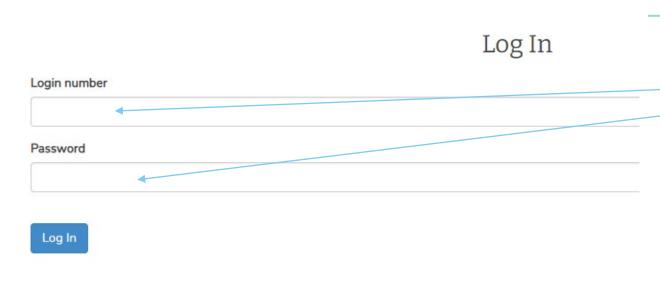
Want to know more about the program? Review the information below.

- Who is getting an inspection?
- Why is this important?
- What should I do?
- What is an inspection?
- · What's the next step?

Who is getting an inspection?

The City of Algona is implementing a **mandatory** inspection program to verify that clear water from sump pumps, footing drains, seepage systems, or roof drains is not connected to the sanitary sewer. Properties within targeted areas of the City which have experienced backup issues recently will be required to get an inspection. See this map to determine if your property will require an inspection.







112 W. Call Street, Algona, IA 50511 Phone: 515-295-2411 www.algonaiowa.gov

TO: John Sample

DATE: October 3, 2024

Inspection for building at 123 Sample ST

Login: 123456789

Password (case sensitive): 123a

RE: Sanitary Sewer Connection Inspection Program

Dear Property Owner:

The purpose of this letter is to notify you of an upcoming, mandatory sanitary sewer inspection program in your neighborhood and an associated public meeting.

Beginning this October, the <u>City</u> will conduct mandatory inspections of sanitary sewer connections in targeted areas of the City that have experienced sewer backups in recent years. The City has hired WHKS & Co. to coordinate and conduct the inspections on behalf of the City, at no cost to property owners.

The inspection will check footing (foundation) drains, sump pumps, roof drains, and other potential sources of clear water that may be illegally connected to the sanitary sewer collection system. During significant rainfall events, excess clear water entering the system through illegal connections can overload the sanitary sewer, which can lead to basement backups and require bypassing flow directly into the river.

The <u>City</u> will host a public informational meeting on <u>Tuesday</u>, <u>October 15th at 6:00 pm</u> at the <u>Algona Public Library</u> <u>Conference Room A</u>. The meeting will cover the need for the program, inspection scheduling, proper sewer



Schedule Inspection

This building does not have its inspection completed.

Schedule Inspection

Schedule an inspection of

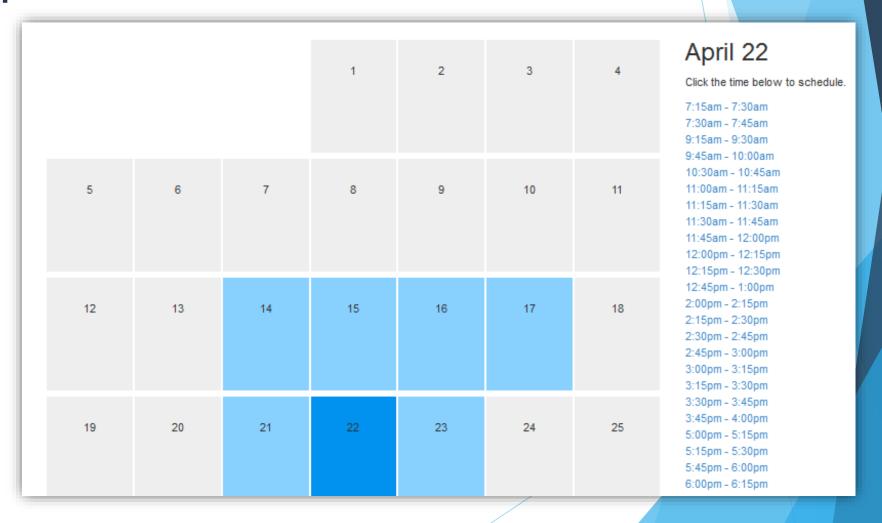
ST, Algona, IA

Edit Notes

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



Scheduling Calendar





Residents 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.

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.



Inspector Identification





All inspections are scheduled



No door-to-door



WHKS logos on:

Badges

Clothing

Vehicles



The Inspection

- Completed in under 30 minutes
- Adult must be present
- Inspector will televise lateral to ~20 ft beyond foundation
- Inspector looks at:
 - Sump pumps
 - Beaver drains
 - Roof drains
 - Site grading
- Notice of Violation and instructional diagrams given, if needed



Inspection Outcomes

- Pass
 - ▶ No further action needed
 - ▶ Letter will be mailed within 10 days confirming pass



Inspection Outcomes

- ► Follow-Up
 - Sump
 - Schedule follow up which City Staff will perform
 - Lateral
 - Schedule follow up on plumber inspection day



112 W. Call Street; Algona, IA 50511 Phone: 515-295-2411

www.algonaiowa.gov

SUMP PUMP & LATERAL FOLLOW-UP INSPECTION REQUIRED NOTICE

For

Owner's Name(s):
Address:
Date of Issue:
Schedule Follow – Up By:
SUMP PUMP FOLLOW-UP
During the sump pump inspection, we were not able to confirm the discharge location of one or more of
the following items: sump pump, seepage system, roof drain, or exterior drain. Your inspection will not
be complete until the discharge location is confirmed. You must schedule a Follow-Up Inspection
appointment with the City of Algona to complete the inspection process.
To-Do:
Please call WHKS within 10 days of receiving this Notice to schedule a sump pump Follow-
Up Inspection. The Follow-Up Inspection is required to complete the inspection process. There is no
charge for scheduling a Follow-Up Inspection.
LATERAL FOLLOW-UP
During the lateral inspection, we were not able to gain access to the sewer lateral to inspect for a footing
drain connection. To gain access to the lateral a plumber will need to install a wye on the sewer stack or
remove and reinstall a toilet. There is no cost associated with the plumber or Follow-Up inspection. The
inspection process is not complete without the Follow-Up inspection.
To-Do:
Please call WHKS within 10 days of receiving this Notice to schedule a lateral Follow-Up
Inspection. The Follow-Up Inspection is required to complete the inspection process. There is no
charge for scheduling a Follow-Up Inspection.
that the territoring at one of impression
The Follow-Up plumber assisted inspection time is scheduled for:
WHKS & Co.
Phone: 1-833-401-9467
Hours: Mon - Thurs 8 AM - 5:00 PM, Fri 8 AM - 12PM



If calling after hours, please leave your name and phone number and we will call you back within one business day.

Inspection Outcomes

- ► Failure
 - Sump
 - Receive violation notice and repair within 90 days
 - ► Lateral
 - Receive violation notice and repair within 365 days
 - Reinspection must be scheduled after repair





112 W. Call Street; Algona, IA 50511 Phone: 515-295-2411

www.algonaiowa.gov

VIOLATION NOTICE

For

Date of	issuc.
Comply	with City Ordinance by:
su	MP PUMP VIOLATION (90 days to repair and schedule reinspection)
	Please use property login information to schedule your reinspection at <u>algonasump.com</u> or call WHKS at the phone number below after the work is complete to schedule a reinspection (Required by Ordinance).
FO	OOTING DRAIN VIOLATION (365 days to repair and schedule reinspection)
<u>.</u>	To-Do After Repair: (two options) City Reinspection Please use property login information to schedule your reinspection at algonasump.com or call WHKS at the phone number below after the work is complete to schedule a einspection (Required by Ordinance).
9	<u>DR</u>
8	Contractor/Plumber Reinspection When footing drain is repaired, have the licensed contractor/plumber televise the sewer lateral as part of the repair. Please see video requirements on the statched inspection form. Video (on a USB-drive) and inspection form can be dropped off at Algona City Lell If done properly, it will not count as a

Additional Information

reinspection.

Owner's Name(s):
Address:

Please visit <u>algonasump.com</u> for more information. Including inspection report and copy of lateral video (if applicable). Please allow 10 business days for report and video.

Chapter 13 of the Municipal Code of Ordinances prohibits clear water connections into the sanitary sewer. Ordinance can be reviewed at algonasump.com.

Inspection report will be mailed to property owner within 10 business days.

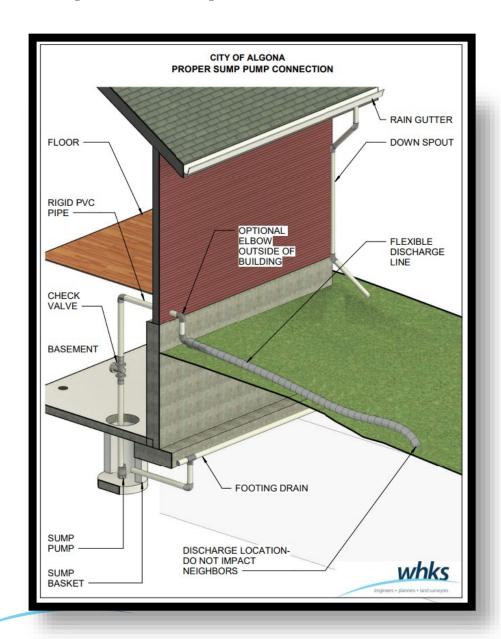
WHKS & Co. Toll-Free Inspection Scheduling Phone Number
Phone: I-833-401-9467
Hours: Mon – Thurs 8 AM – 5:00 PM, Fri 8 AM – 12PM
If calling after hours, please leave your name and phone number
and we will call you back within one business day.

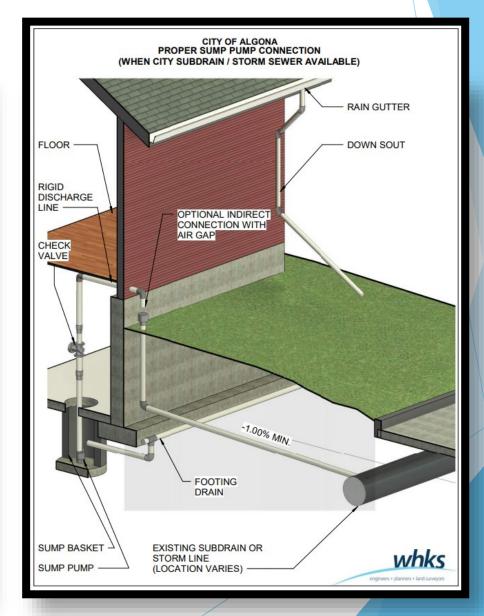
Cost Share Program

- Failure Lateral
 - City is considering possible cost share program for lateral connection violations



Sump Pump and Lateral Diagrams





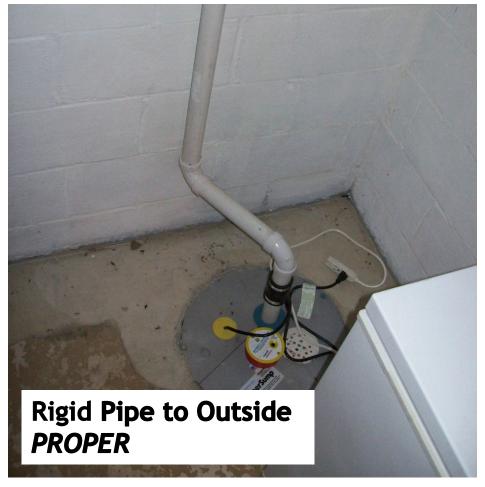
Installation Examples: Footing Drain Connection

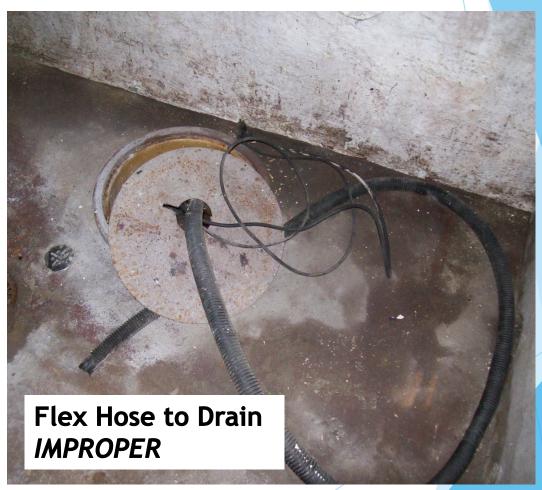


Tap in Lateral Past Foundation IMPROPER



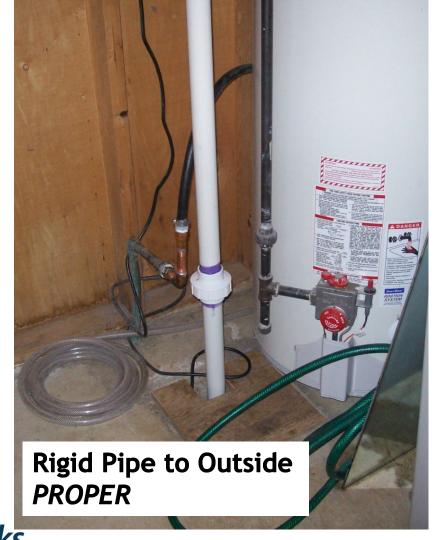
Installation Examples: Sump Pumps

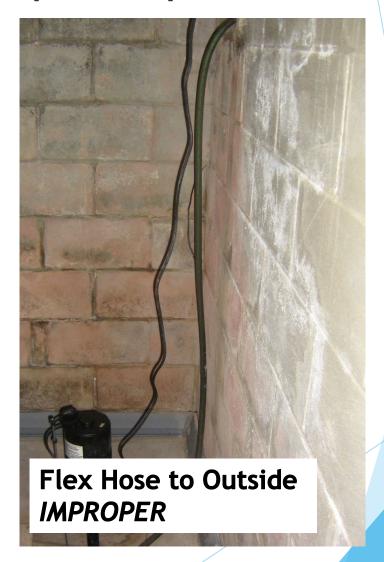






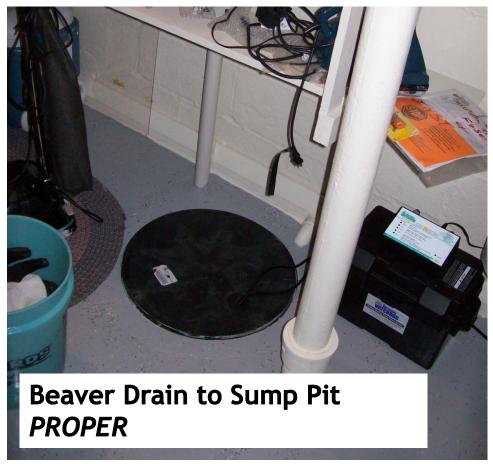
Installation Examples: Sump Pumps

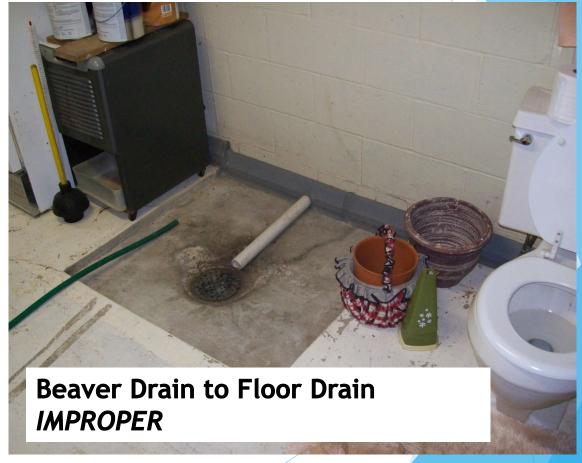






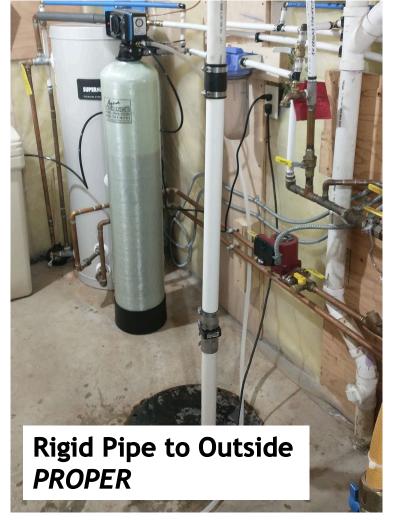
Installation Examples: Beaver Drains





whks

Installation Examples: Sump Pump with direct connection







Inspection Form

City of Algona Sump Pump and Lateral Inspection Report

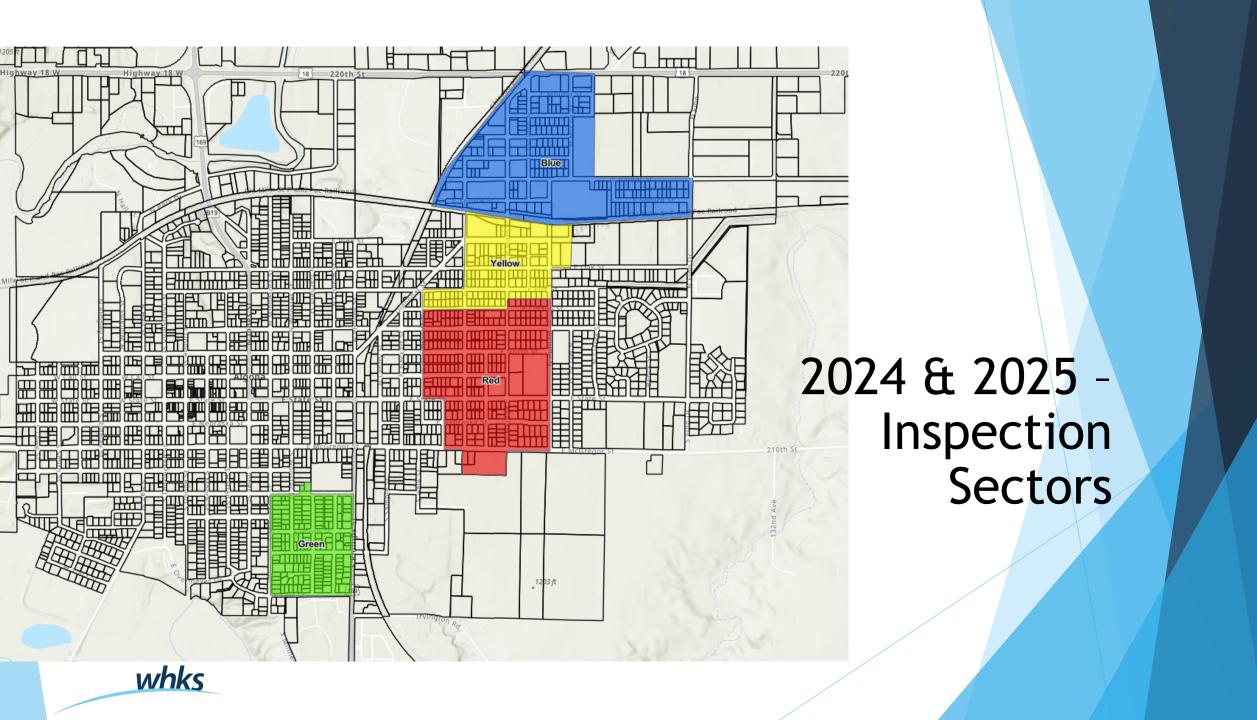
A. Initial Inspection

Ini	Initial Inspection				
1.	Owner and Address:				
	a. Owner Name(s): b. Address:				
	c. Occupant(s) Name (If different than owner):				
	d. Owner Address (If not current occupant):				
2.	Date of Initial Inspection:				
3.	What Year was the Building Constructed? (ex. 1959)				
4.	Building Type (Residential, Apt., Commercial, Industrial, etc.):				
5.					
J.	If marked ves, please provide previous flooding dates, source of the flooding (if known), and				
	,				
	any actions taken:				
6.	Does building have: a. Yes No				
7.	If building has a roof drain that goes into the ground, which of the following apply? a. t is properly constructed to discharge to open air or storm system. b. t is improperly constructed to discharge into the sanitary sewer system. c. Discharge location not determined.				
8.	If there is a seepage collection (beaver) system, which of the following apply? a. t is properly constructed to discharge into a sump pit. b. t is improperly constructed to discharge into the sanitary sewer system. c. Discharge location not determined.				
9.	If there is a sump pit , which of the following apply? a. Pump is properly installed to discharge outside the basement through rigid piping. b. Pump is improperly installed 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.				
10.	If lateral inspection is conducted, fill in information below. a. No Suspect Foundation Drain Found b. Suspect Foundation Drain Found c. Suspect Foundation Drain not determined. (Note Why in Comments)				
11.	If lateral inspection is conducted, fill in information below. a. General Information i. Pipe Diameter (inches) ii. Pipe Material (vcp, Pvc, DiP, RCP, CMP, CIP, Obg. other) iii. CCTV Start Location (i.e. Sewer main, Totel, Sewer stack, etc) iv. CCTV Start Distance from Foundation Wall (i.e. Along the arignment of the pipe, how far is the foundation from point of insertion? (t) b. Observations (Note footage (ft) of each instance)				

	iii. iv.	Mineral/Unknown Deposits Chipped/Cracked Pipes Offset Joints				
	vi.	Sags/DeflectionsSuspect Foundation Drains				
12.	Other Co	omments (exterior drains, uncapped cleanouts, inactive sump pit, suspect foundatio	n			
drain, etc.):						
13.	Photos T	aken of Interior Sumps and Collection System and Building Exterior?	No.			
14.	nspection Video Submitted on USB-drive (required for lateral inspection)?	□No				
	Video is required to show the point of insertion into the sanitary sewer to 20-feet past the repair (if reinspection) or foundation (initial inspection). Address only needs to be displayed at the beginning the video. Footage needs to be displayed on the screen at all times. Failure to comply with these requirements or provide a clear video for City review will void the inspection. File name					
15.	If 7b, 8b,	9b, 9c, 9d, or 10b is checked, a Violation Notice will be given to the Occupant or O	wner			
	directing	them to correct the violation by (date):				
PA	ss	FAIL CITY FOLLOW-UP	_			
			†			



Roots



Approximate Inspection Timeline

ltem	Sector	Date
Public Information Meeting		October 15, 2024 (Red Sector) March 2025 (Remaining Sectors)
Inspections:		
South Main Neighborhood	Red	October/November 2024
North Main Neighborhood	Yellow	March/April 2025
Garrigan Neighborhood	Blue	April/May 2025
Jerome/Kennedy Neighborhood	Green	May/June 2025
All Inspections Completed		2025



Next Steps

1. Contact us by phone or login to website to schedule the appointment.









Questions?





Contact and Project Information

- Contact/ Project information
 - Emma Nollenberger, E.I.T. (507) 288-3923
 - Scheduling Website: AlgonaSump.com
 - Call toll- free: (833) 401-9467

