Sump Pump Inspection & Water Meter Replacement

June 16, 2021

6:00pm

Byron City Hall

Bryan Kaemingk, P.E. – Project Manager



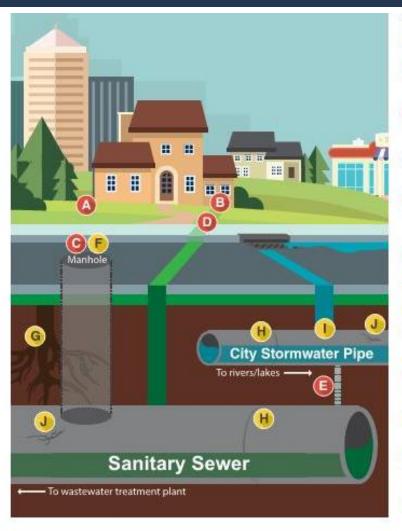


Meeting Objectives

- 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



INFLOW

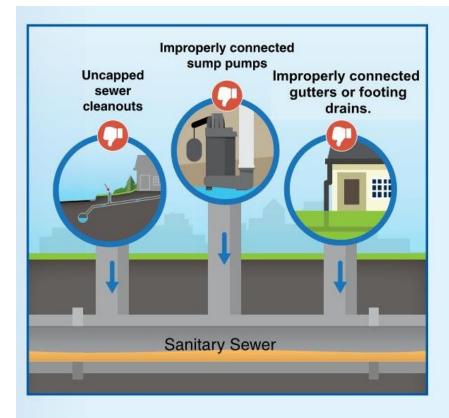
- Roof Drain Connection
- Sump Pump or Foundation Drain Connection
- O Deteriorated Manhole
- Uncapped or Broken Clean-Out
- Storm Cross Connection

INFILTRATION

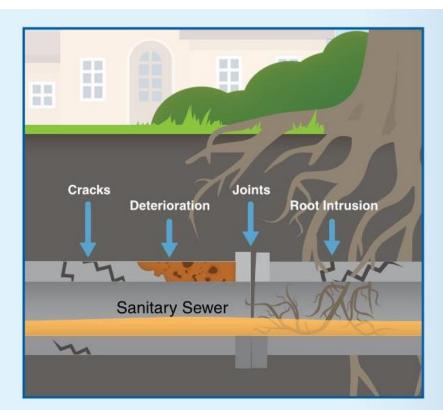
- Faulty Manhole Cover/Frame
- G Root Intrusion
- Open Joints
- Faulty Service Connection
- Broken of Cracked Pipe



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.

Consequences of Excessive I/I



I/I's Effects on Byron

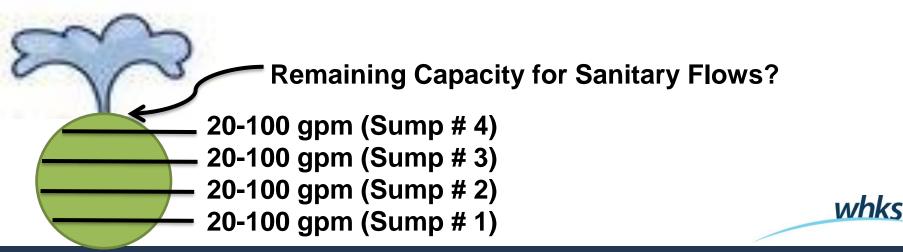


- Sanitary Sewer Backups into Homes
- Sewer Infrastructure Size Increase
- Wastewater Treatment Plant Upgrades
- Sewer Rate Increases



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

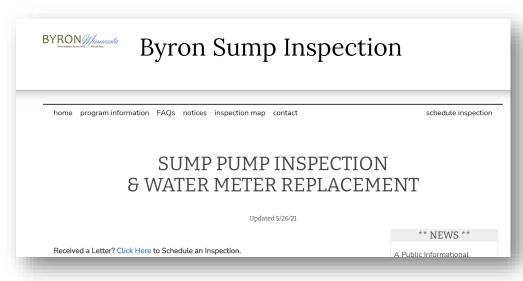


Key Aspects to Ordinance Revision

City Ordinance 20-06 prohibits clear water connections.

- Sump pumps, beaver drains, footing drains, 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
- Timeline
 - 30 days to inspect
 - 90 days to correct sump pump deficiencies
- City can issue \$100/month surcharge for violations or no inspection

Public Information



Information available in print and on the web at

- www.ByronSump.com
- City of Byron Social Media

A successful program benefits the City by

•reducing backups,

•protecting health, and

•Controlling costs



Invitation to attend public info meeting and schedule inspection



Byron Sump Pump Inspection & Water Meter Replacement Phone: (507) 775-3400 ByronSump.com

June 4, 2021

John Doe

Inspection for building at 123 Sample St

Login:Sample Password (case sensitive):Sample

Sump Pump Inspection & Water Meter Replacement Program -

MEETING AND INSPECTION INVITE

The City of Byron's Ordinance 20-06 prohibits the discharge of clear water into the sanitary sewer system. Clear water from any roof, surface, ground, sump pump, footing drain, swimming pool, seepage collection system ("beaver system"), or other natural precipita discharging or draining into the sanitary sewer.

The City will be conducting mandatory sump pump inspections to veri drains, and other clear water sources are not connected to the sanitary stem. The City is coordinating the clear water inspections with water meter rep for each property are replaced every 10 to 15 years due to ag n. All meters within the inspection area are older than 15 years and need re

If you are receiving his letter, your property is so an inspection in 2021. Visit Byronsump.com for program details.

Property Owners Must Schedule Man as y Sump Pump Inspection.
Per ordinance, within 30 days (from the dat of the you must schedule an inspection to avoid a \$100/month surcharge on your ew bill. For fairness to all residents, to avoid a \$100/month surcharge on your inspection of all buildings with a se mandatory even if the building does not have a basement or sump pump

Please visit ByronSump.com le an inspection. Your login and password to ated at he top of this letter. You can also contact City Hall schedule an appointment of the schedule an appoint of the schedule and your call the next business day. Typical inspections are completed in 30 minu the inspection make sure there is clear and easy access to your sump pump (if ap and water meter. This will allow the inspection and water meter replacement to occ. in a timely matter.

The City will host a public informational meeting on Wednesday, June 16, 2021 at 6:00 pm at Byron City Hall to discuss the need for the program, the scheduling of inspections, proper connection, and other miscellaneous items. The Meeting will also be broadcast via Zoom. Go to ByronSump.com for Zoom meeting information.

For more information about the program and scheduling your inspection please visit Byronsump.com or call (507) 775-3400.

Sincerely,

City of Byron

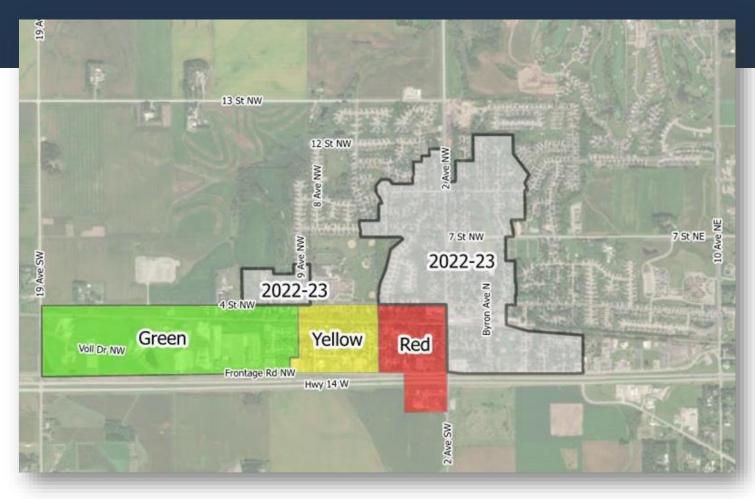


Scheduling

- 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.



Sectors



Interactive map available at ByronSump.com





Byron Sump Inspection

home program information FAQs notices inspection map contact

schedule inspection

SUMP PUMP INSPECTION & WATER METER REPLACEMENT

Updated 5/26/21

** NEWS **

Received a Letter? Click Here to Schedule an Inspection.

A Public Informational



Schedule Inspection

This building does not have an inspection scheduled.



Select a time for an inspection of 1234 test sample Ave.

Edit Notes

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



Scheduling Calendar

			1	2	3	4	April 22 Click the time below to schedule.
							7:15am - 7:30am 7:30am - 7:45am 9:15am - 9:30am 9:45am - 10:00am
5	6	7	8	9	10	11	10:30am - 10:45am 11:00am - 11:15am 11:15am - 11:30am 11:30am - 11:45am 11:45am - 12:00pm 12:00pm - 12:15pm 12:15pm - 12:30pm 12:45pm - 1:00pm 2:00pm - 2:15pm 2:15pm - 2:30pm 2:30pm - 2:45pm 2:45pm - 3:00pm 3:00pm - 3:15pm 3:15pm - 3:30pm 3:30pm - 3:45pm 3:45pm - 4:00pm 5:00pm - 5:15pm 5:15pm - 5:30pm 5:45pm - 6:00pm 6:00pm - 6:15pm
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	

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

- City Staff performing all inspections.
- All inspections are scheduled
- No door-to-door
- City
 - Badges
 - Clothing
 - Vehicles



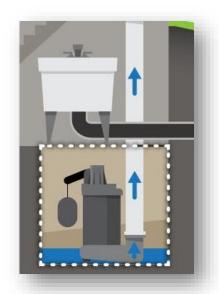
COVID-19 Safety

- 1. If requested, we will wear masks into your homes for inspection
- 2. We will take temperatures of our inspectors each day
- 3. We will eliminate the signature at the end of the inspection to make it contactless.
- 4. We request you maintain a distance of 6' from inspector.

What are we doing?

Sump Pump Inspection & Water Meter Replacement

- Completed in 30 minutes
- Adult must be present







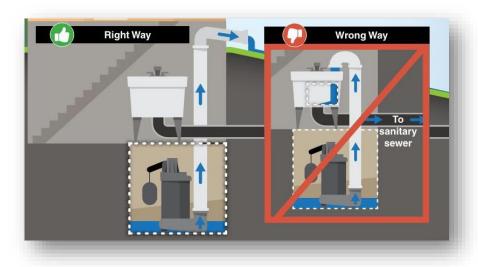


Water Meter Replacement

- Coordinating replacement with Sump Inspections! Two Birds with one stone!
- Used to measure the amount of water used at your property.
- Typical meters are replaced every 10 to 15 years due to age and condition.
- New Style installed which is more accurate and can be read remotely.



Sump Pump Inspection



- Sump Inspection looks at:
 - Sump pumps
 - Beaver drains
 - Roof drains
 - Site grading
- Notice of Violation and instructional diagrams given if needed
- May Need a follow up Inspection



Installation Examples: Sump Pumps



whks

Installation Examples: Beaver Drains



whks

Installation Examples: Beaver Drain / Tile



whks

Inspection Form

oing	License Number Page				
120121	City of Byron				
lni	Sump Pump Inspection Report w/ Water Meter Replacement tial Inspection				
1.	Owner and Address:				
2.	a. Owner Name(s): b. Address: c. Occupants Name (If different): d. Owner Address (s): (If different) Date of Initial Inspection:				
3.	Date of construction and Building Type? Building built in year				
	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 Sepage collection (beaver) system?				
6.	If building has a roof drain that goes into the ground, which of the following apply? a.				
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.	Water Meter Information (Internal – Only City Staff are authorized to install water meters) a. Water Meter Replaced \square Yes \square No				
	b. Final Meter Reading				
	c. New Meter ID Number				
	d. New EndPoint ID Number				
	e. Water Service Material (Copper, Lead, Galvanized, Plastic, Other)				
10	Other comments (exterior drains, uncapped cleanouts, inactive sump pit, suspect foundation drain etc):				
11	Photos taken of Interior Sumps and Collection System, Water Meter and Building Exterior? ☐Yes ☐No				
12	If 6b, 7b, 8b, 8c, 8d or 9b was checked, a Violation Notice was given to the Occupant or Owner directing them to correct the violation by (date):				
	SS City Follow-Up				

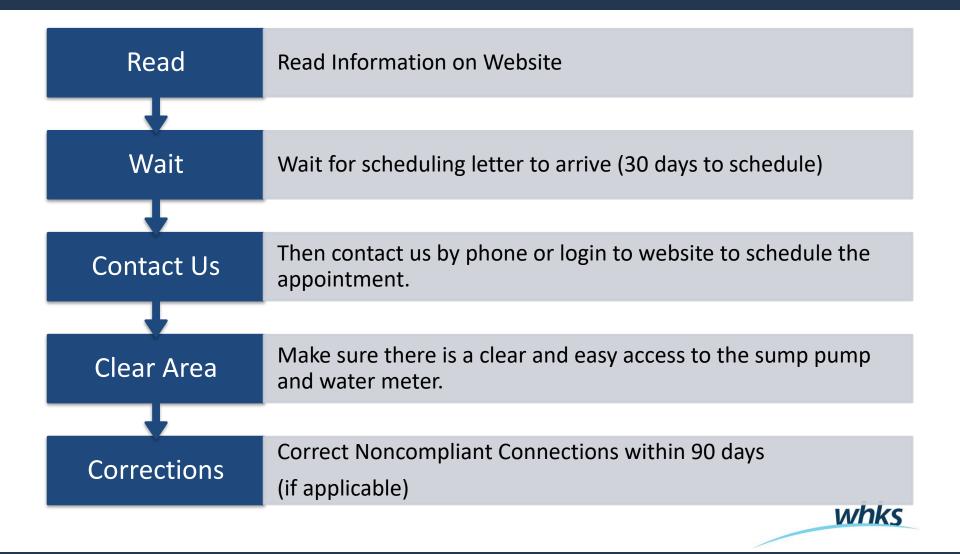
	Property Address Pag
	N
B. Subsequent Inspection – Date 1. Inspection conducted by 2. Does the building now comply with the ap □Yes □No	pplicable Ordinance for the City of Byron?
	till reviewed by the City of Byron. The City will y requirements are met. Results provided by City review.
I hereby verify that the building stated above has been inspected for the above-described sump pump, lateral (if applicable) and the information set forth above is true and correct	I hereby verify that the building stated above has been inspected for the above-described sump pump, lateral (if applicable) and the information set forth above is true and correct
to the best of my knowledge.	to the best of my knowledge.
	Inspector Licensed Plumbers: sign with license #.

Approximate Inspection Timeline

Item	Date
Public Information Meeting	June 16, 2021
Sump Pump Inspections & Water Meter Replacements	
Red Sector	June 2021
Yellow Sector	July 2021
Green Sector	August 2021
All Inspections Completed	Fall 2021
Other sections of the City	2022-2023



Next Steps



Contact and Project Information

- Contact/ Project information
 - Scheduling Website: ByronSump.com
 - Call City Hall: 507-775-3400

Bryan Kaemingk, P.E. 507-288-3923



Questions?



