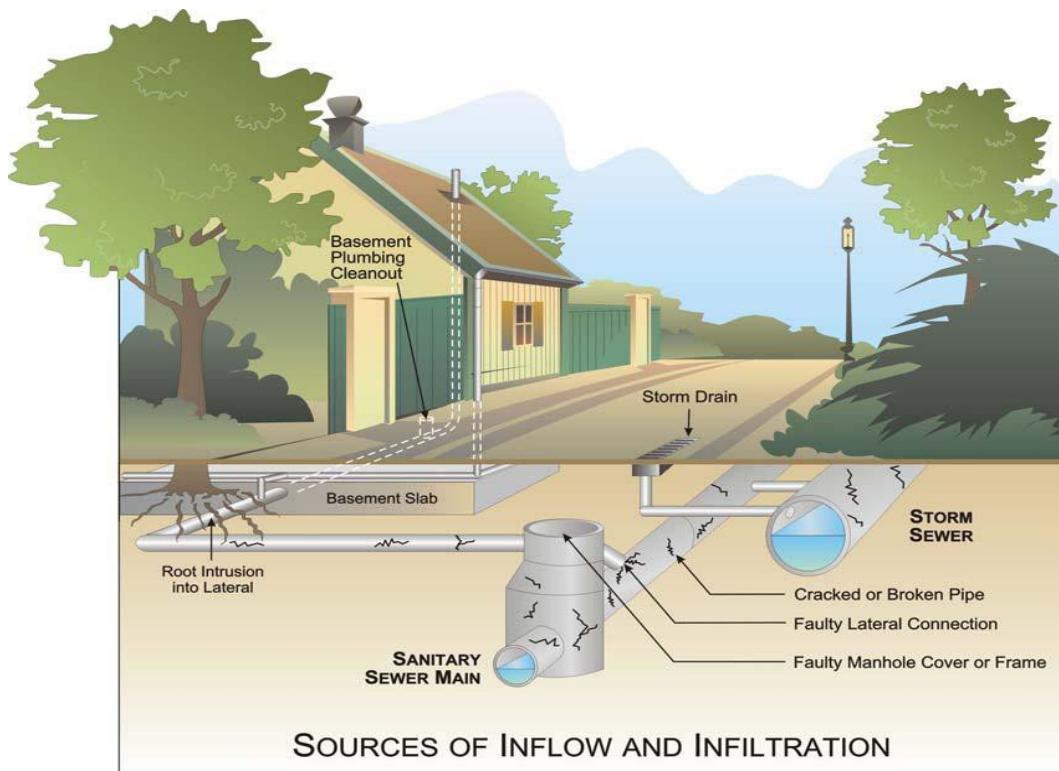


SMOKE TESTING FACT SHEET

What is smoke testing?

Smoke testing is a common test method used to identify sections of the sanitary sewer collection system that have defects such as cracks, leaks or faulty connections that allow rainwater to enter this underground pipe network. Since the sanitary sewer system is only designed to handle sewage, the addition of rainwater/stormwater causes many problems in the collection system. The City intends to locate and repair as many of these infiltration issues as possible so that a heavy rain won't overwhelm the sanitary sewer system or interfere with the operation of the wastewater treatment plant.

During the test, City workers and Contractors will blow a dense white smoke into the sanitary sewer system. The smoke will escape again through openings such as holes in manhole covers and plumbing vent pipes located on or near rooftops. Smoke will also escape through defects such as cracks or breaks, open or broken cleanout covers, damaged or defective manhole frame seals, illegally connected roof or area drains and any other opening(s).





Why is it important to remove rainwater from the sanitary sewers?

Excessive rainwater in the sanitary sewer essentially “robs” the pipe of capacity. This capacity or space in the sanitary sewer pipe should be used to transport sewage to the wastewater treatment plant, not rainwater. If the sanitary sewer pipe is at or near the design capacity, there is simply no available room for this extraneous rainwater. During extended periods of rainfall or after even one heavy rain many pipes become surcharged or “over full”. Since there is no room for the extra water a backup or an overflow may occur. A backup causes wastewater to “backup” into a home or business connected to the sewer line. An overflow allows wastewater to escape from manholes or other openings into the environment.

Why is City of Marshall testing my street?

The City has been inspecting the sewers and monitoring the flows throughout the city to find out where rainwater enters the sanitary sewers. The wastewater collection system that serves your house has been identified as an area that needs further testing to locate these sources of extraneous rainwater (inflow and infiltration) entering the system.

Is the smoke safe?

Yes. If you detect smoke on your premises, **DO NOT BE ALARMED**. The smoke is **ODORLESS, NON-TOXIC AND NON-STAINING**. It will dissipate quickly. It will not harm pets or plants or leave a residue. Open a door or window for ventilation and call one of the numbers listed to report the smoke. Local fire personnel will be working with field staff and will be able to tell you the difference between smoke from the testing and smoke that could result from a fire unrelated to the testing.

What should I do to prepare?

Smoke should only enter your premises if the traps in your home are dry or defective, or if you have uncapped or broken drain pipes. You may want to pour some water down your drains or unused plumbing fixture(s) to insure that the drain trap will be effective – run the water through these fixtures for approximately one minute.



Will anyone need to enter my home?

No. If you do find that smoke has seeped into your home, you will need to contact a licensed plumber but under no circumstances will City personnel ever need to enter your home or business.

PROPOSED CITY OF MARSHALL SMOKE TEST AREA - 2022

The following is the list of streets the City will be smoke testing in 2022*:

- 1) Marshall Civic Center 2501 East End Blvd.
- 2) Bergstrom Street.
- 3) Cherry wood Street.
- 4) T.S.T.C. 2650 S. East End Blvd to Five Notch
- 5) 3300 Block of Monigold Rd.
- 6) 1604 Harper.
- 7) 111 Memorial Dr.
- 8) 300 East Moor Dr & Miller Dr.
- 9) East Rusk & Bolivar.
- 10) Murphy & South Garrett. St.
- 11) Sewer Plant & South Service Road

The City and its contractor will be following the above list and any deviation will be posted to the City's Facebook page.

Start Date: Monday, September 12, 2022

Completion Date: On or about October 31, 2022 (weather permitting)

Will I be charged for this work?

No. All testing is funded by the sewer utility fees paid by all residents and businesses in the city.

Where can I get more information?

Call the City of Marshall Public Works Department at 903-935-4516.

Some Typical Smoke Testing Defect Pictures

