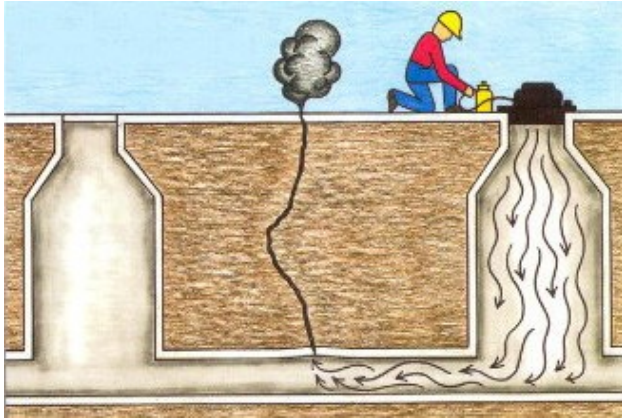


## How Smoke Testing Works



Smoke testing involves forcing smoke-filled air through a sewer line. The smoke under pressure will fill the main line plus any connections; then follow the path of the leak to the ground surface, quickly revealing the source of the problem. Only enough force to overcome atmospheric pressure is required.

As long as openings exist for the smoke to follow, smoke tests are effective, regardless of surface type, soil type and depth of lines.

### Why should we smoke test?

- ☑ Smoke testing is the most efficient and cost effective way to locate and identify infiltration and exfiltration problems in sewer systems.
- ☑ Smoke testing is a tool used nationwide as a means for locating the problems that are threatening our supply of clean water and costing millions of dollars in additional waste water treatment.

- ☑ Smoke testing helps identify plumbing leaks in buildings. Sewer gases can cause health problems for building occupants.

Smoke may be seen coming out of the ground, manholes, or vents and gutters on homes and businesses.



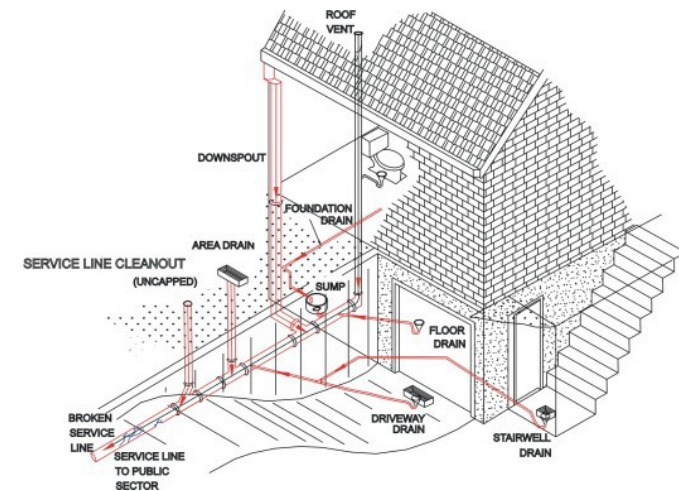
Smoke coming out of the ground may indicate a break or other defect in the sewer line which allows smoke to escape up through the ground.

However, smoke doesn't always originate at the spot the smoke plume emerges. Sometimes smoke will escape through a defect in the sanitary sewer line, then travel or migrate along the pipe until it finds a way to rise to the surface.



It is possible, although rare, that smoke could enter a residence through a drain trap which has dried out or some other plumbing defect such as an un-trapped washing machine drain.

Private properties may have several connections to the sanitary sewer system such as floor drains and sump pumps. If these become clogged or blocked, they could cause problems. Additionally, defects can allow toxic fumes and wastewater to seep up into the residence itself.



If you have any questions or desire more information, please call (250) 652-3988 during regular office hours 8:30 am – 4:30 pm (Monday through Friday) or visit our website anytime at <https://tsartlip.com/>

