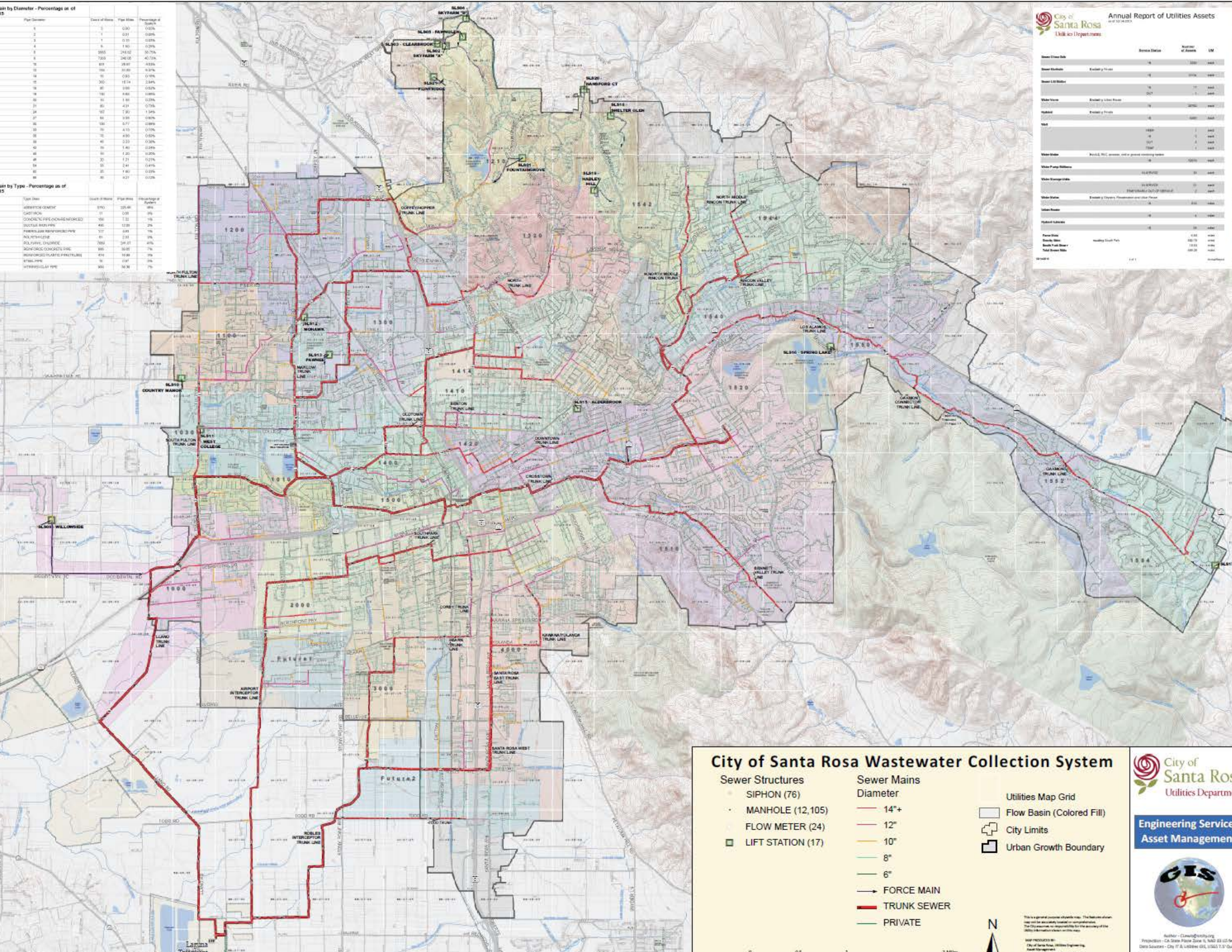


Santa Rosa Water Operations

OVERVIEW OF WASTEWATER COLLECTIONS SYSTEM SMOKE TESTING



[illegible]

City of Santa Rosa Wastewater Collection System

Sewer Structures

- SIPHON (76)
- MANHOLE (12,105)
- FLOW METER (24)
- LIFT STATION (17)

Sewer Mains

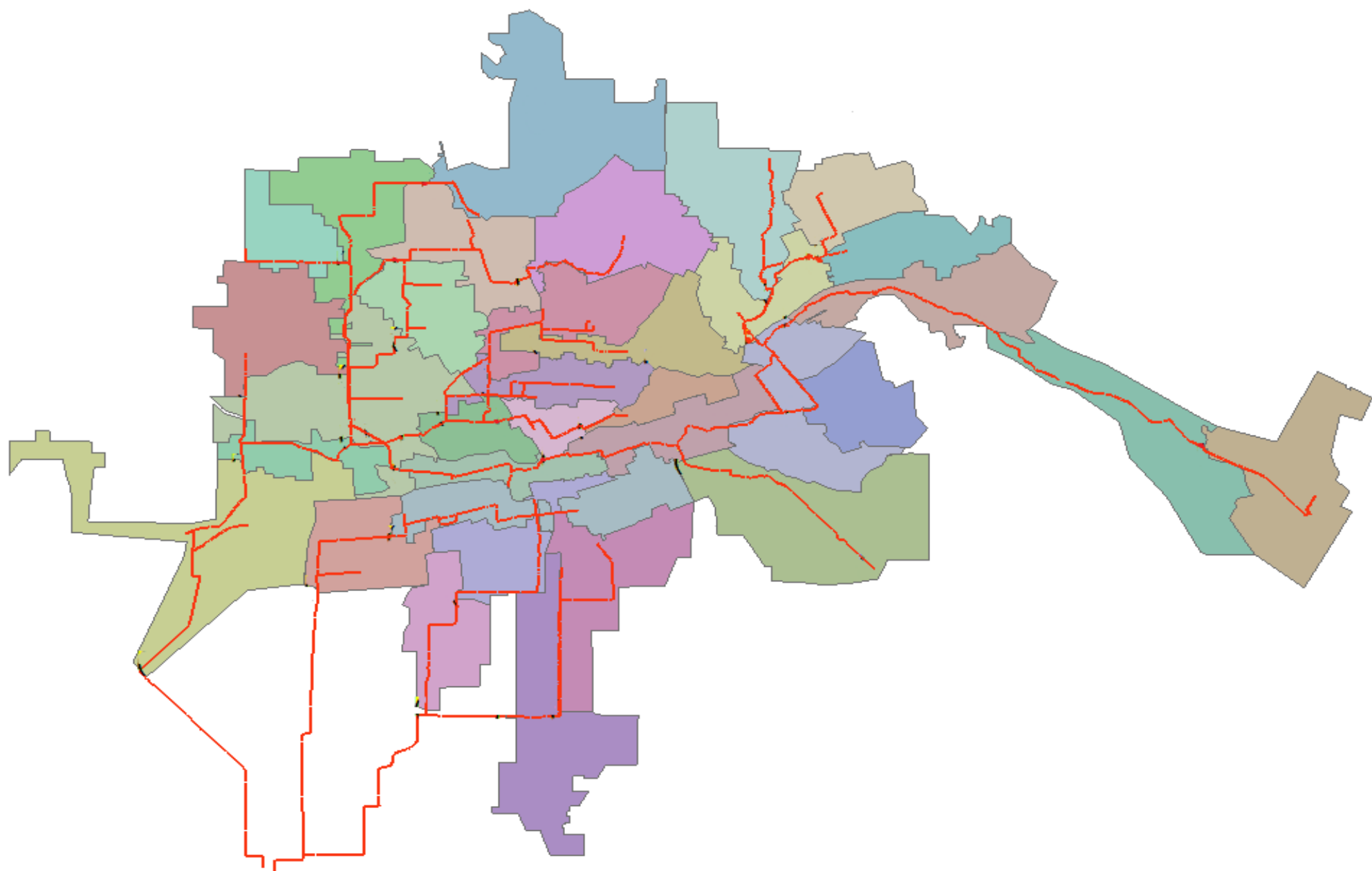
- Diameter
- 14"+
 - 12"
 - 10"
 - 8"
 - 6"
- FORCE MAIN
- TRUNK SEWER
- PRIVATE

- Utilities Map Grid
- Flow Basin (Colored Fill)
- City Limits
- Urban Growth Boundary



This is a general purpose citywide map. The features shown may not be accurately located or representative. The City assumes no responsibility for the accuracy of the map.

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City of Santa Rosa, Utilities Division



Inspection/Maintenance

Santa Rosa and South Park Sanitation District(19 mi)

590 miles of sewer main 6-36" diameter

12,185 manholes

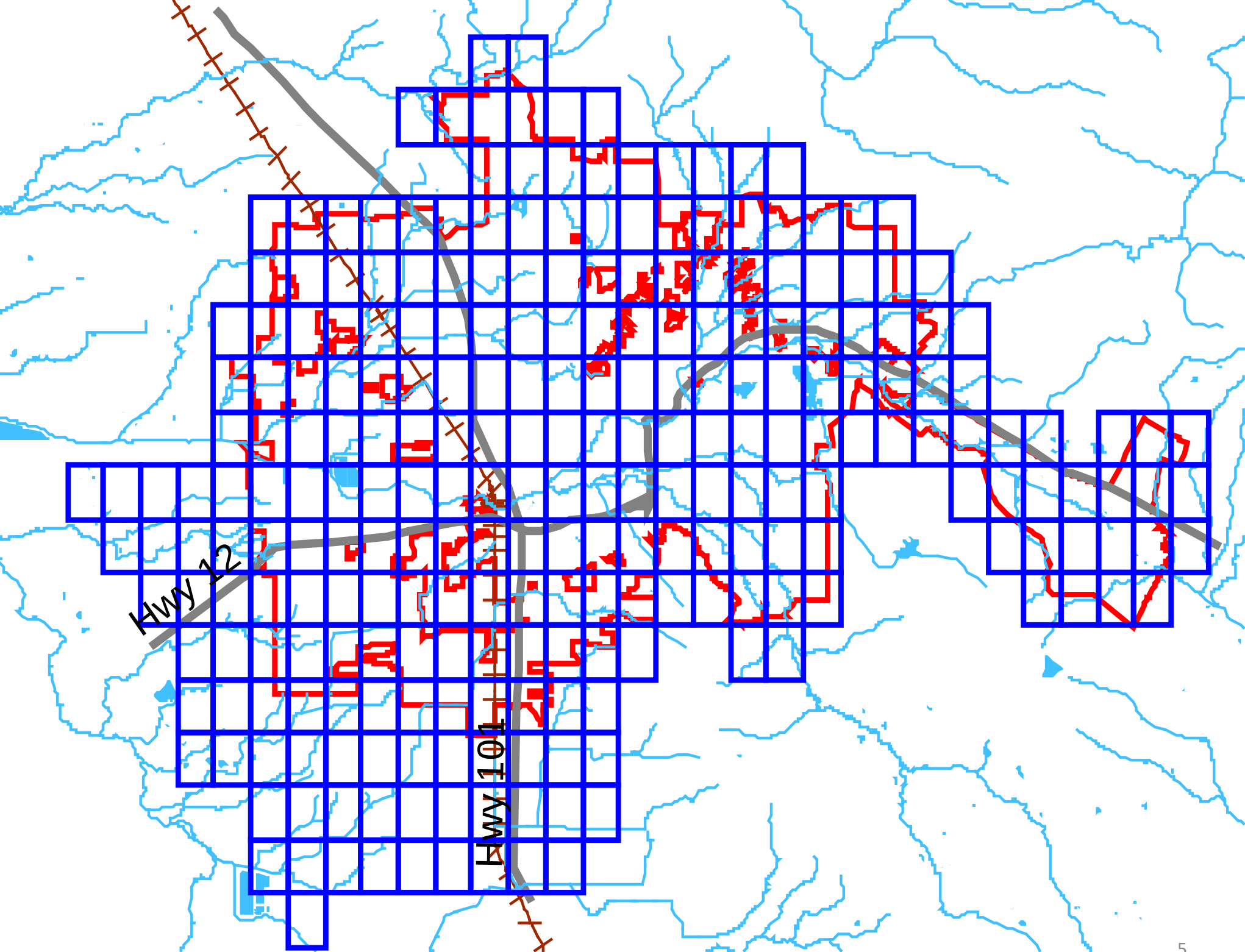
17 sewer pump stations - 6.4 miles forced main

37 siphons

- *Flushing 5 year, Monthly, Quarterly, annual preventative maintenance*
- *Vaporoot- 'root inhibitor'*
- *Rodding*
- *CCTV 7 years,*
- *Smoke testing 5 years*
- *Spill response/ clean-up /reporting*
- *Construction – repair/replace sewer(Water) assets*
- *Manhole inspection/entry and repair*
- *24/7 customer service and emergency response*



OUR FUTURE IN EVERY DRÖP



CITY OF SANTA ROSA



- Inflow = surface water entering sewer from above ground
 - Downspouts
 - Yard Drains
 - Inundated manholes
 - Missing cleanout caps
- Infiltration = groundwater entering from surrounding soil
 - Cracks & holes in laterals & mains
 - Abandoned lateral connections



CCTV Closed Circuit TV



- 2 vans



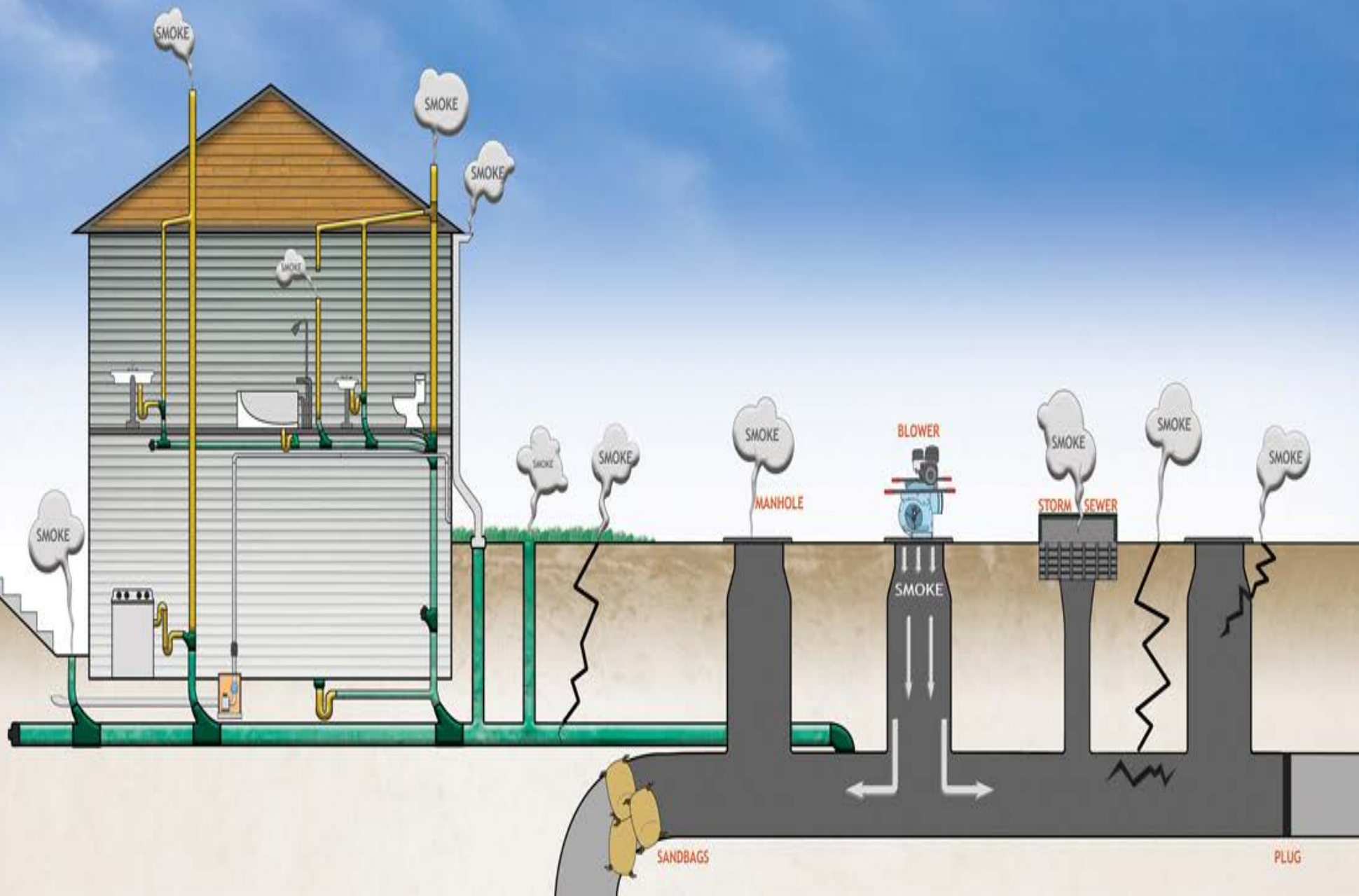
OUR FUTURE IN EVERY DROP



SMOKE TESTING EQUIPMENT

LIQUID SMOKE
Non-toxic











OUR FUTURE IN EVERY DRÖP



PUBLIC NOTICE

RE: Smoke Testing

Dear Customer,

The City of Santa Rosa Water Department will conduct smoke testing on the sanitary sewer system in your service area within the next 10 working days. You will receive a second notification prior to the beginning of the smoke testing. The test takes 10 minutes and the purpose is to locate breaks and defects in the sewer system. The smoke will also reveal sources of storm and other surface water entering the sewer system.

A special non-toxic smoke is used in these tests. The smoke is manufactured for this purpose; it leaves no residuals or stains, and has no effect on plant or animal life. **Very rarely does smoke enter a home or business.** If you suffer from respiratory problems do not stay inside during the smoke test. A City representative will knock on your door to notify you just before the test. If you have animals and you will not be home or cannot keep them outside, crack a window if possible. The smoke has a distinctive, but not unpleasant, odor. Visibility and odor last only a few minutes where there is adequate ventilation.

Because the plumbing appliances are connected to the sanitary sewer system, some smoke may enter your home or place of business if:

- Vents connected to sewer pipes are inadequate, defective, or improperly installed.
- P-Traps under sinks, tubs, basins, showers and other drains are dry (not used often), defective, improperly installed, or missing. **Run water for 10 seconds to fill P-traps of any drains that are not used very often.**
- Pipes, connections and seals of the sewer drain system in and under your buildings are damaged, defective, have plugs missing, or are improperly installed.

All customers are advised that if traces of this smoke or its odor enter your house or building, it is an indication that gases and odors from the sewer also may enter. These odors can be both unpleasant and dangerous, as well as a health risk to the occupants. If smoke does enter your home, that means there is a defect in your plumbing and you should contact a plumber to resolve the problem. Locating and identifying the source of smoke that enters your building, as well as making the necessary repairs, is urgently advised.

The information gained from this testing will be used to improve your sewer service and reduce costs to our customers. For additional information please visit srcity.org/smoketest or contact the Santa Rosa Water Water at 543-4200.



OUR FUTURE IN EVERY DROP

PRUEBAS DE HUMO

IMPORTANTE

Humo inofensivo se ha utilizado para encontrar escapes en la tubería sanitaria

NO SE ALARME

Si hay humo dentro de su casa, lo mas probable es que entro por un escape de la tubería sanitaria

Si el humo puede entrar en su casa a traves de un escape en su tubería sanitaria también pueden entrar gases peligrosos

Date: _____

Time: _____ am/pm

Para más información. Por Favor
De Llamar a:

Ciudad de Santa Rosa
Departamento de Utilidades
(707) 543-4200



SMOKE TEST

IMPORTANT

A Harmless Smoke Has Been Used to Detect Leaks In The Sanitary Sewer System.

DO NOT BE ALARMED

If There Is Smoke In Your House,
Most Likely It Has Come Through A
Leak In Your Plumbing.

If Smoke Can Enter Your House Through
A Plumbing Leak, So Can Dangerous Gases.

Date: _____

Time: _____ am/pm

For More Information, Please Call:

City of Santa Rosa
Utilities Department
(707) 543-4200

srcity.org/smoketest



OUR FUTURE IN EVERY DRÖP

SMOKE TESTING IMPORTANT INFORMATION

The City of Santa Rosa conducts Smoke Testing of the sanitary sewer system to find defects and faulty connections where excess rain water (Inflow) and ground water (Infiltration) can enter the sanitary sewer system. Identifying and eliminating inflow and infiltration helps maintain the sewer systems infrastructure by reducing flows into the wastewater system, stabilizes treatment costs, and helps prevent sewer backups and overflows.



Process:

- Simulated non-toxic smoke will be injected into the sewer system. As a result, smoke may be seen coming from manhole covers, storm drains, roof vents, and building foundations.
- After each setup the smoke test will last approximately 30 minutes.
- Photographs will be taken to document potential leaks/defects.
- Inspection crews will not need to enter buildings, unless to gain access to building rooftops.
- Faucets and bathroom facilities can still be used during smoke testing.

Tips to prevent smoke from entering your building (complete prior to test):

- Run water faucets for a few seconds in unused sinks, tubs, and drains to fill fixture traps.
- Pour water into each floor drain (at least 1 gallon)
- If you have defective plumbing (i.e. no trap), you should consult with a licensed plumber.

If you notice smoke in your building:

- **Do NOT become alarmed**
- Open doors and windows to ventilate the premises to clear smoke.
- **Contact the Santa Rosa Water Department at 707-543-4200.**
- Simulated smoke will not stain walls or furniture; nor will it leave a residue.
- Consult a licensed plumber in the near future to identify the smoke access area, as the potential exists for sewer gases to enter the building in the same manner.

Safety/ Health Issues:

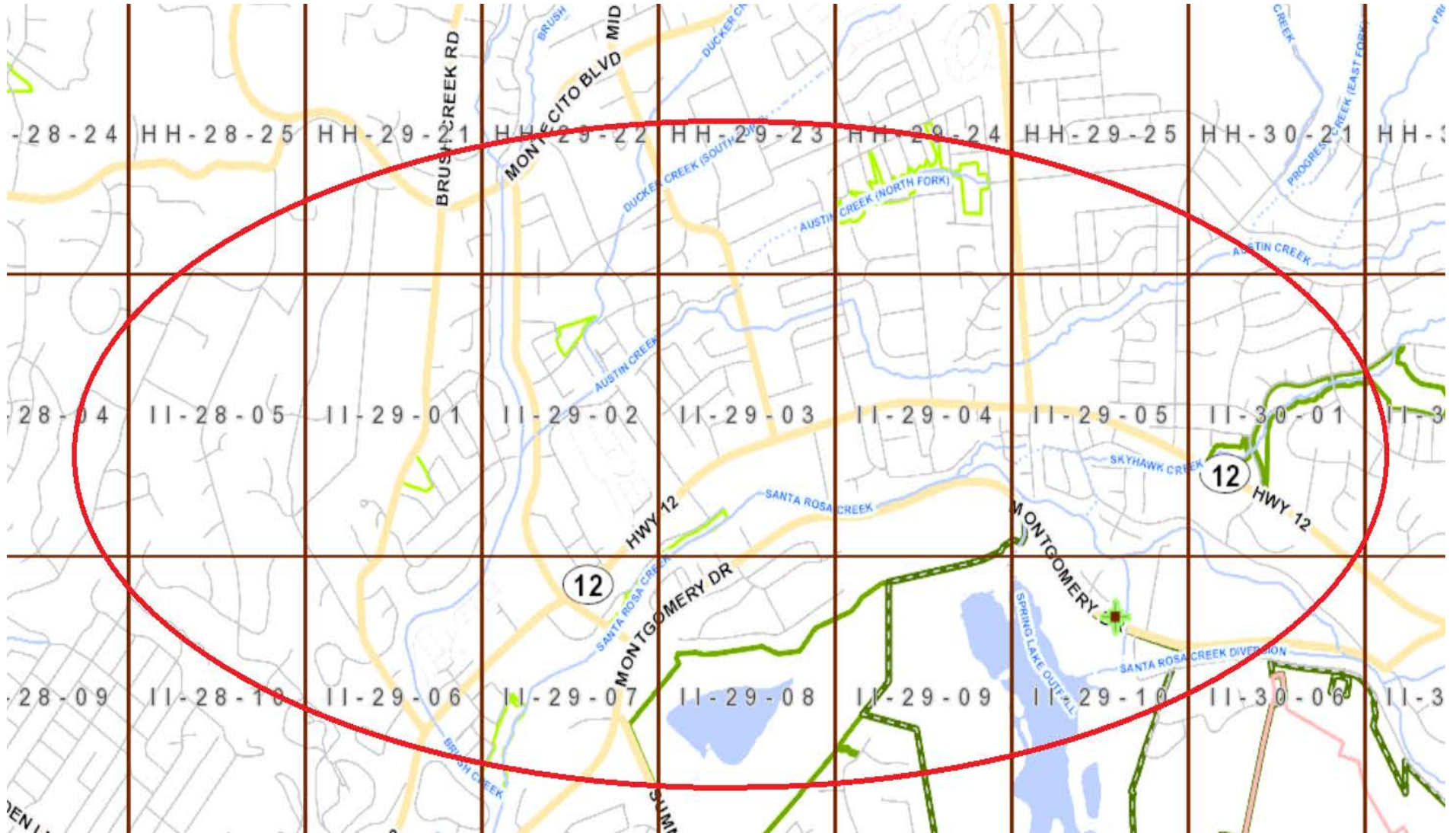
- There is **NO** danger of fire or explosion of sewer gas with the smoke testing process.
- Fire Departments will be notified of the smoke testing.
- **Simulated smoke is not harmful to your health, but may cause some coughing.** Smoke irritation is temporary and should disappear after exposure has ceased. When possible avoid unnecessary exposure to simulated smoke.
- The smoke is not harmful to pets, but it would be a good idea to leave several windows partially open for ventilation, should any smoke enter the building. If you have proper plumbing connections and all of the drain traps have water in them, there should not be any problem.
- If there is an individual in your building, business, or residence who has respiratory problems and/or mobility limitations please contact Santa Rosa Water Department at 707-543-4200.

For more information, visit srcity.org/1045 or call 707-543-4200.



OUR FUTURE IN EVERY DRÖP

2019 SMOKE TESTING



THANK YOU!

QUESTIONS?

CONNECT WITH US!

CALL: 707.543.3981

EMAIL: RDWard[@srcity.org](mailto:RDWard@srcity.org)

VISIT: SRCITY.ORG/WATER
SRCITY.ORG/SMOKETEST



OUR FUTURE IN EVERY DRÖP