

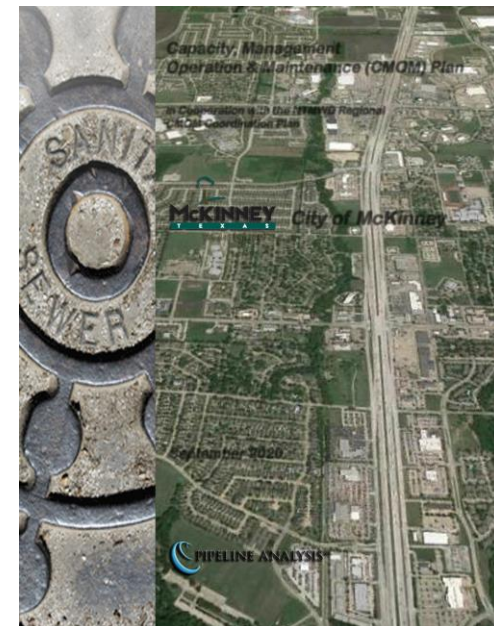
McKinney Sanitary Sewer System & Liquid Waste Ordinance

City Council Presentation

October 20, 2020

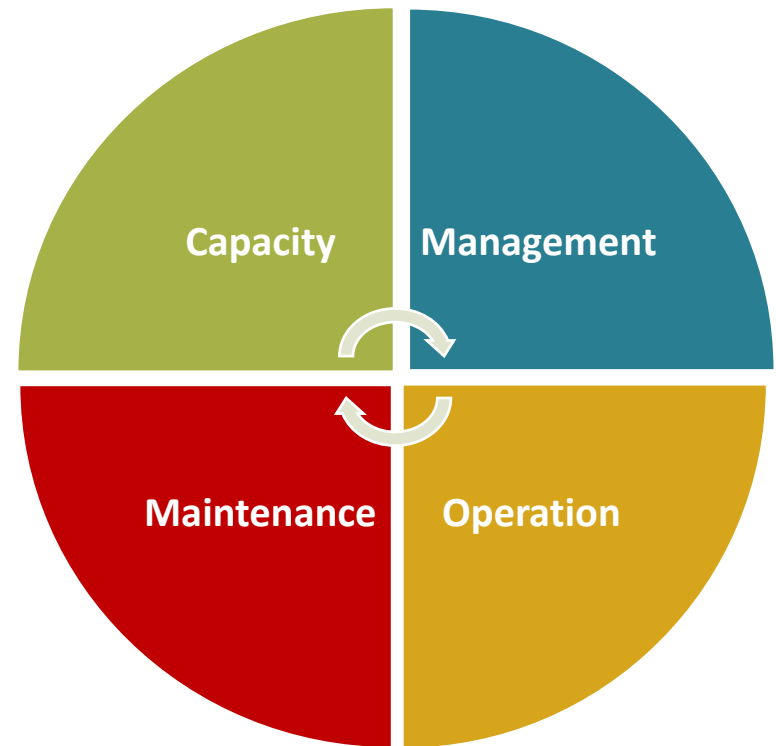
City of McKinney Sanitary Sewer System

- Maintain and operate 728 miles of sanitary sewer
 - Ranging in diameter from 4” to 48”
- Maintain and operate 7 sewer lift stations
- Maintain over 14,587 manholes
- Utilize Capacity, Management, Operations and Maintenance (CMOM) Plan



Capacity, Management, Operations and Maintenance (CMOM)

- NTMWD and Member Cities implemented CMOM to respond to the EPA Clean Water Act
- Reduce frequency of sanitary sewer overflows (SSOs)
- Provides a structured plan for collection system management
- Optimize system performance
- Develop specific plans for capital improvements
- **Develop specific plans for maintenance activities**



Sanitary Sewer Overflow (SSO)

- A release of raw sewage from a sanitary sewer
- SSOs are violation of Texas Water Code and Federal Regulations
- Causes include:
 - Blockages
 - Line breaks
 - Defects that allow stormwater and groundwater to overload the system
 - Power failures

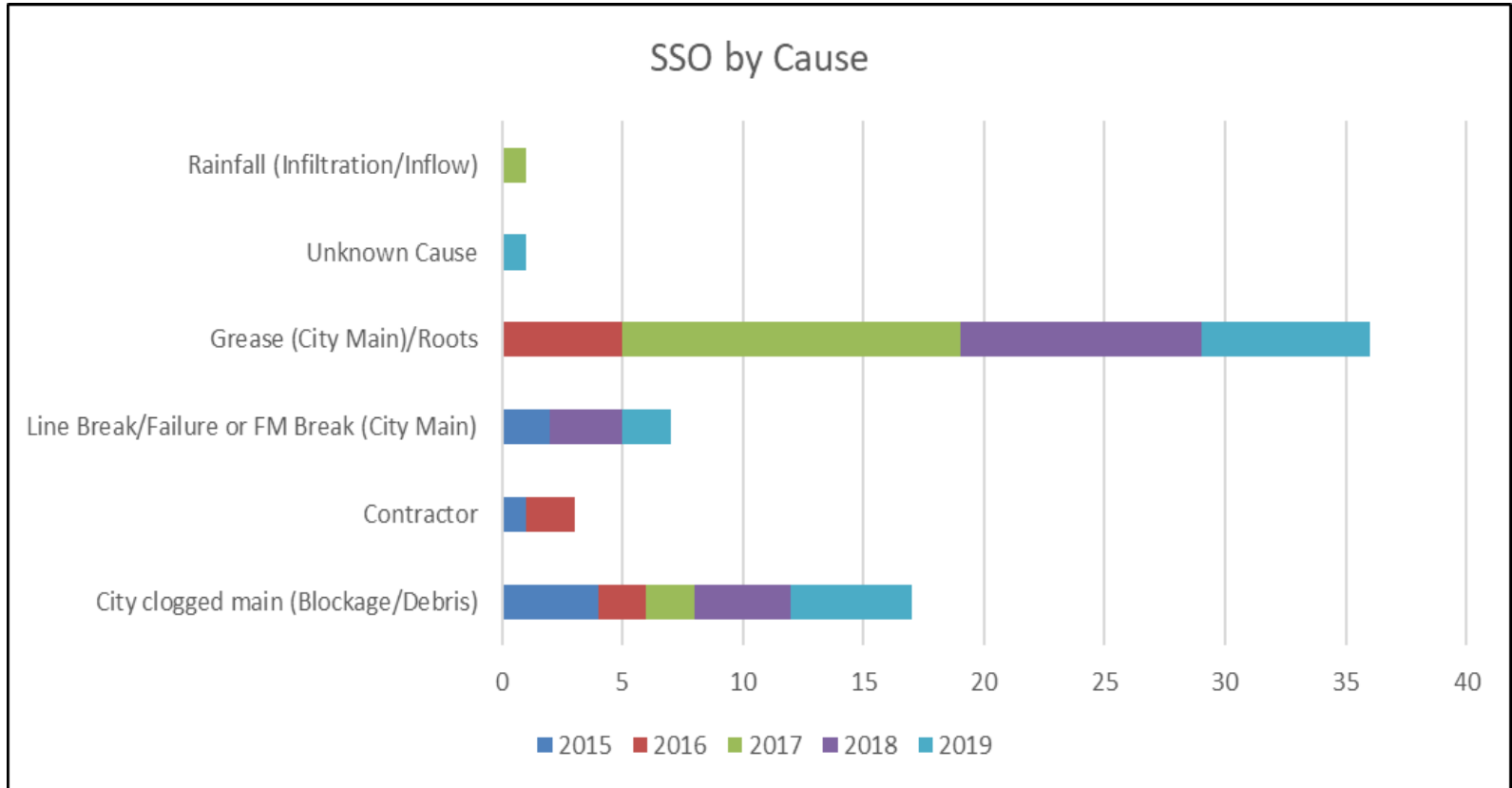


Fats, Oils and Grease

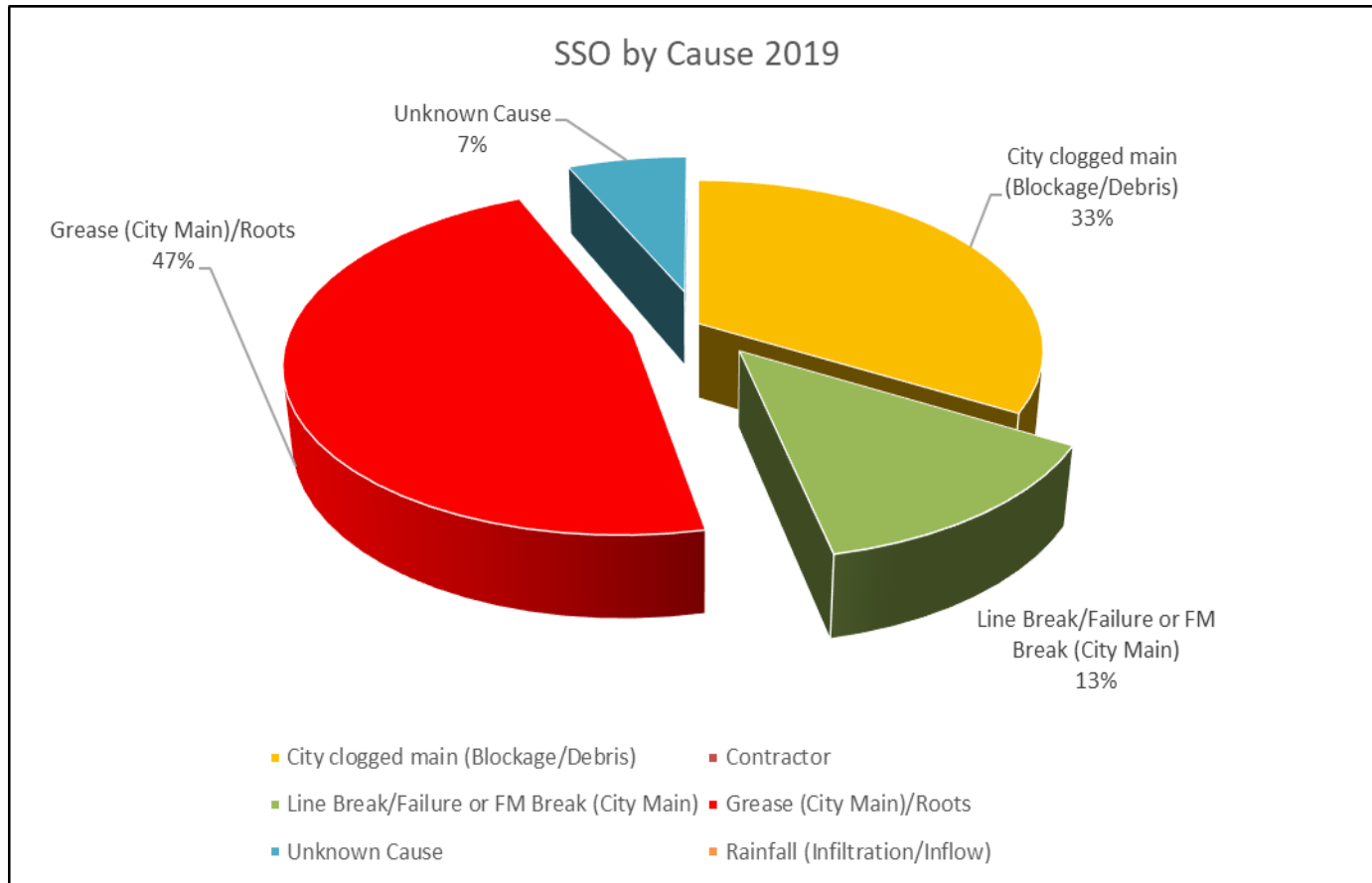
Wastewater discharges containing high concentrations of fats, oils and grease (FOG) from food service establishments (FSEs) such as restaurants, schools, nursing homes, other similar public facilities contribute to half of the blockages causing SSOs



City of McKinney SSOs by Cause



2019 SSOs by Cause

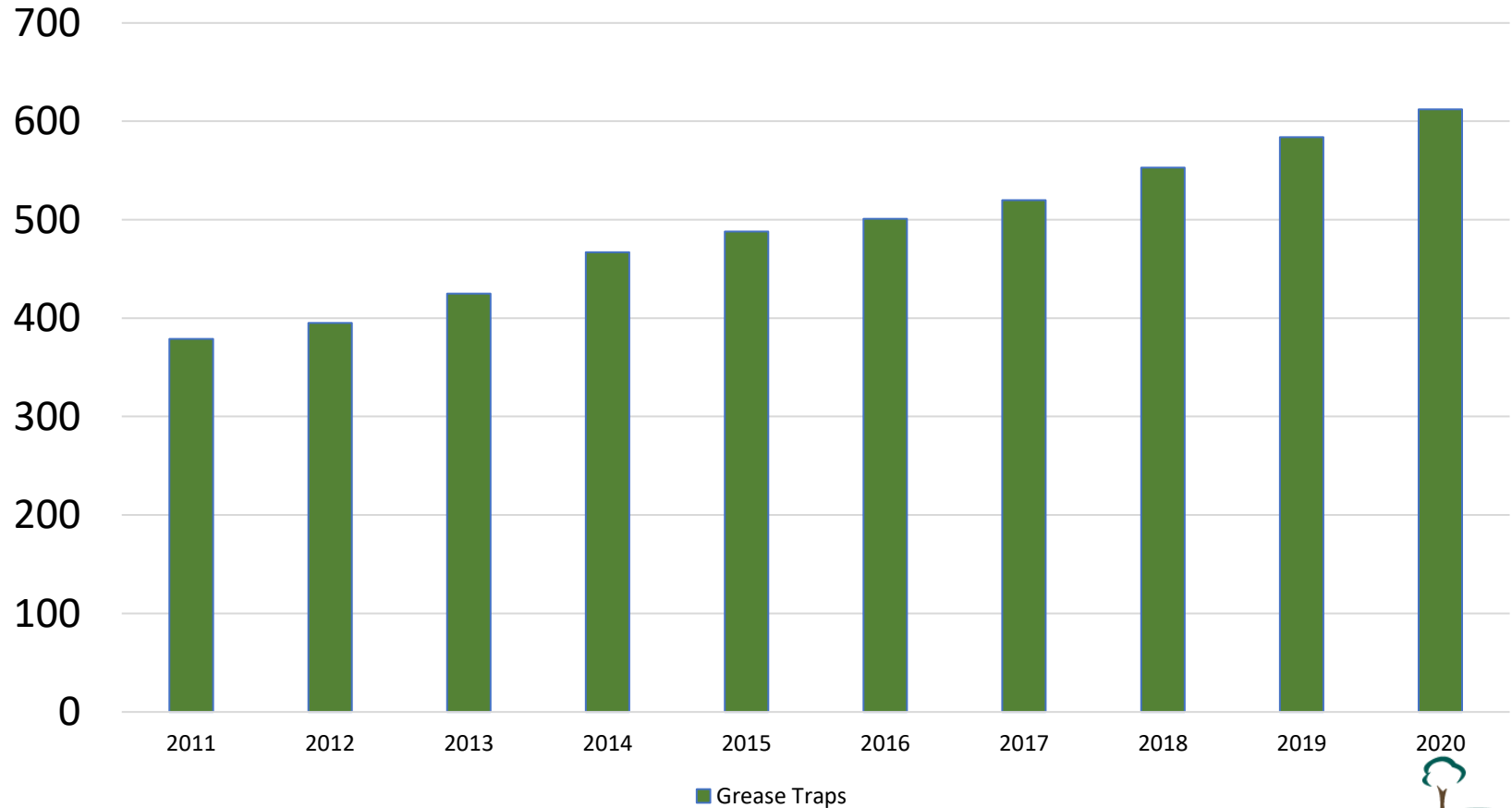


Maintenance Activities for FOG reduction

- ✓ FOG- Fats, Oils, and Grease
- ✓ Public Outreach and Education
- ✓ Grease Trap Installation
 - Grease Trap Inspection & Cleaning Enforcement
 - Liquid Waste Hauler Permitting



Number of Grease Traps by Year



Grease Trap/Interceptor



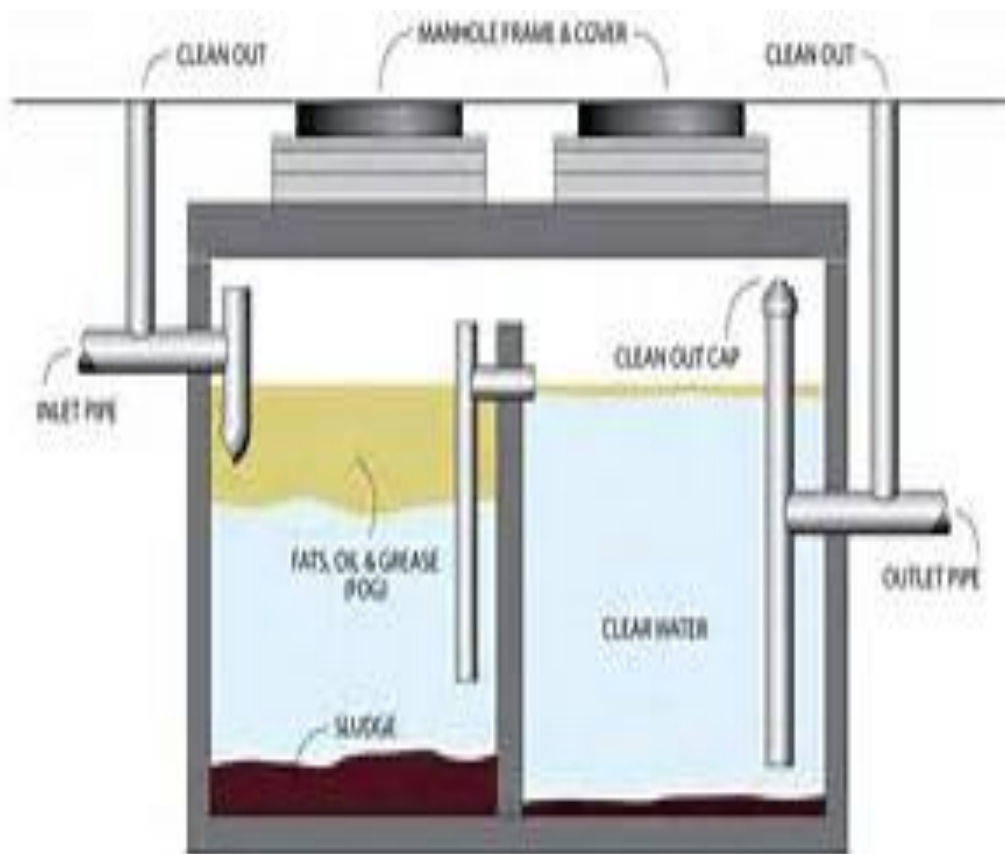
Interior grease traps



Liquid Waste Ordinance Objectives

- Aid in preventing sanitary sewer overflows resulting from blockages due to fats, oils and greases from commercial and industrial facilities
- Promote the proper maintenance of grease traps and grit traps
- Ensure proper handling, disposal, transport of waste
- Comply with Memorandum of Understanding executed with North Texas Municipal Water District

Liquid Waste Ordinance



Incorporate pertinent State Grease Ordinance Model requirements into City ordinance

- Minimum of 90 days or,
- 25% rule
- 100% pump out

We are including a variance if this cleaning frequency is not needed

Liquid Waste Haulers

- A liquid waste transporter operates a vehicle for the purpose of transporting liquid waste such as septic, grease, grit trap wastes and used motor oil.
- Texas Commission on Environmental Quality (TCEQ) permits and requires annual reporting from liquid waste haulers.
- Most local governments also regulate the transportation of wastes such as, sewage sludge, domestic septage, chemical toilet waste, grease and grit trap waste within their city limits.



Applicable Fees

Waste hauler's permit

- The permit fee is per vehicle.
- Each permit must be renewed annually.
- Stickers for the permit must be prominently displayed on the rear side of the vehicle.

Permit fees

Plano	\$200
Lewisville	\$200
Garland	\$200
Carrollton	\$150
Mesquite	\$100
Ft. Worth	\$300
Dallas	\$300

Grease Traps/Interceptor Process

- Grease Traps are required at the time of construction or occupancy for FSE.
- Grease Trap structures are inspected by the Pretreatment Coordinator
 - 600+ grease traps
 - Inspected 1 time each year
- **Proposed:** Adopt a Liquid Waste Ordinance
 - Outline grease trap/cleaning requirements
 - Provides an option for self cleaning traps < 15 gallons
 - Implement permitting of Liquid Waste Haulers

How does this impact downtown restaurants?

- Currently, there are 26 grease traps in downtown.
- Those already cleaning their grease trap have no additional expense unless they are not cleaning on a 3 months schedule.
- Those who have not been cleaning will need to hire a liquid waste hauler when their grease trap contains 25% solids.
- Grease traps less than 15 gallons in size can be self cleaned.
- Staff works with food service establishments to comply.

Ordinance Transition Ideas

- Adopt ordinance in November to go into effective May 1, 2021.
- This allows a grace period of 6 months.
- The 6 month grace period can be used for education about the new ordinance.
- Adopting the ordinance will position the city to comply with the MOU with NTMWD and provide evidence to EPA of completing this item in the CMOM.

Options

- Option 1- Adopt Liquid Waste Ordinance & Hauler Permit Fee
 - *Permit Haulers including an annual Hauler permit fee*
 - *Grease Trap Maintenance*

- Option 2- Adopt Liquid Waste Ordinance with no Hauler Permit Fee
 - *Permit Haulers*
 - *Grease Trap Maintenance*

- Option 3- Do nothing
 - *Does not fully implement the City's CMOM or agreement with NTMWD*

Thank you

