

Food Service Establishment(FSE) Employee Certification Training

# FOG Program FSE Employee Training – Goals and Outcomes

- Fully understand how using kitchen BMPs to control FOG discharge is related to sewer blockages and Sanitary Sewer Overflows.
- Be able to properly clean and maintain a grease control device up to 50 GPM (100 lb) in accordance with the FOG Ordinance.
- Understand background and purpose for the FOG Program.
- Understand the responsibility of the FSE for illicit FOG discharge.
- Three (3) year certification with the FOG program.

#### What is FOG?

o Fats, Oils, and Grease

 Any combination of animal fats and/or vegetable oils that are used to prepare food, or are found in

food.



#### The FOG Problem...

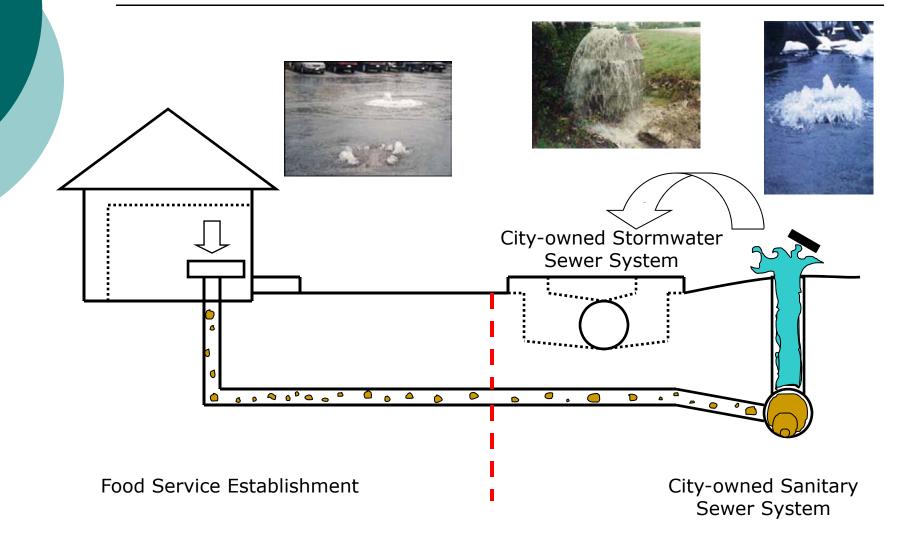
- When discharged into sewer lines, FOG accumulates and sticks to pipe walls causing blockages in the sanitary sewer system.
- Significant sources of FOG are residential homes and Food Service Establishments (FSEs), where cooking oil and residual food grease from dishes is improperly disposed of in drains.







#### The FOG Problem...



# Sewers and Sewage Disposal FOG Ordinance

 Federal and State mandates require the prevention of Sanitary Sewer Overflows (SSOs).



 The Fats, Oils, and Grease
 Ordinance is one measure providing adequate regulation to enforce maintenance of grease control devices.



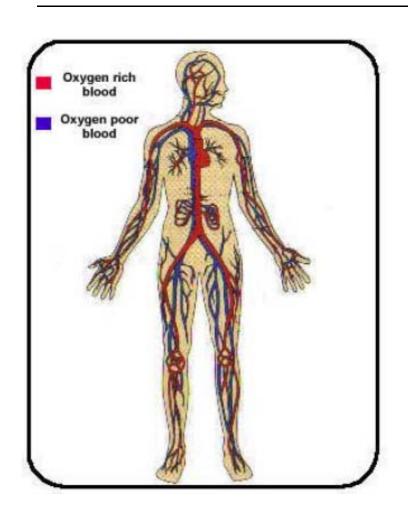
## The FOG Program Objectives

- Reduce FOG-related Sanitary Sewer Overflows
- Provide increased education and awareness of FOG and to improve FOG remediation efforts at FSEs.



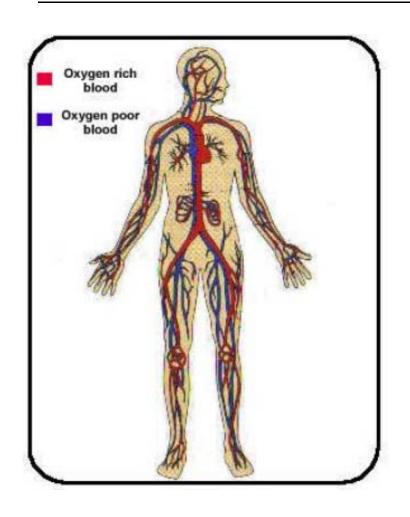
FOG discharge and related SSOs are NO accident!

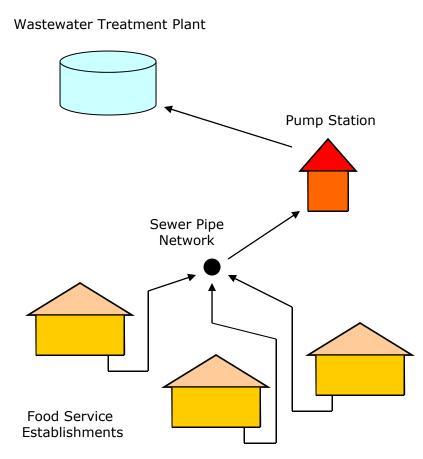




- Sanitary sewer system = human body
- Sewer pipe network= arteries
- Pump stations = heart
- Wastewater treatment plant = kidneys

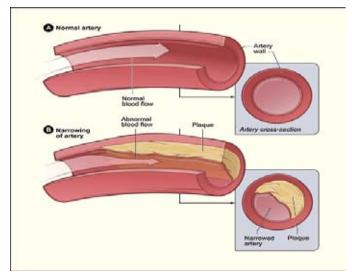








- FOG flows through the sanitary sewer system much like bad cholesterol and fatty acids in the human body (which cause "hardening of arteries").
- FOG can accumulate and constrict flow and potentially cause blockages similar to plaque build up in blood vessels.







 Just like the human body, the best way to prevent FOG buildup is to avoid introducing FOG into the sanitary sewer system.





- Kitchen BMPs used everyday can significantly reduce FOG buildup.
- BMPs are like "diet and exercise" for the sanitary sewer system, replacing bad habits with good.

#### Remember ...



Sanitary Sewage
 Overflows that result
 from FOG discharge
 are violations of State
 and Federal Law.







# **Understanding FOG Sources**

Understand the sources of FOG in a kitchen.





## Understanding FOG Sources

- Fatty foods
- Cooking oils
- Residual food debris
- Kitchen utensils
- Dinnerware
- Deep Fryers
- Leftovers

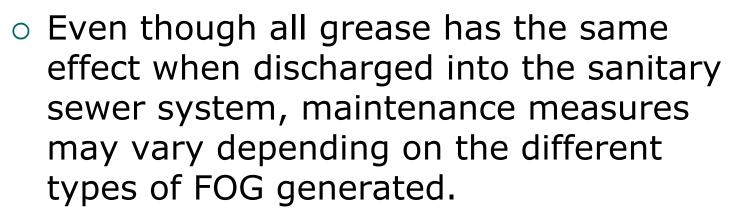






### Understanding FOG Sources

- FSEs primarily generate...
  - Brown Grease
  - Yellow Grease



 Separate yellow and brown grease disposal is required.



### Important "Take Away" Points

- FOG discharge and related SSOs are <u>NO</u> accident!
- Illicit FOG discharge causes "hardening of arteries" for the sanitary sewer system.
- Kitchen BMPs act as "diet and exercise" for the sanitary sewer system.
- FOG is generated by various sources from within the FSE.

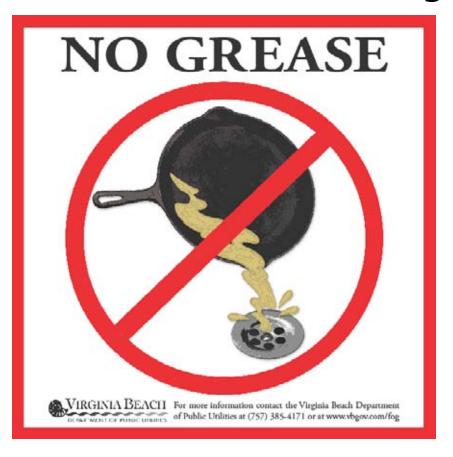


Use FOG Best Management Practices.





Post "No-Grease" Signs Over Sinks





- Scrape food from dirty dishes, pots, and pans into a trash can, then dry-wipe them with a paper towel.
- FOG should not be discarded into garbage disposals.





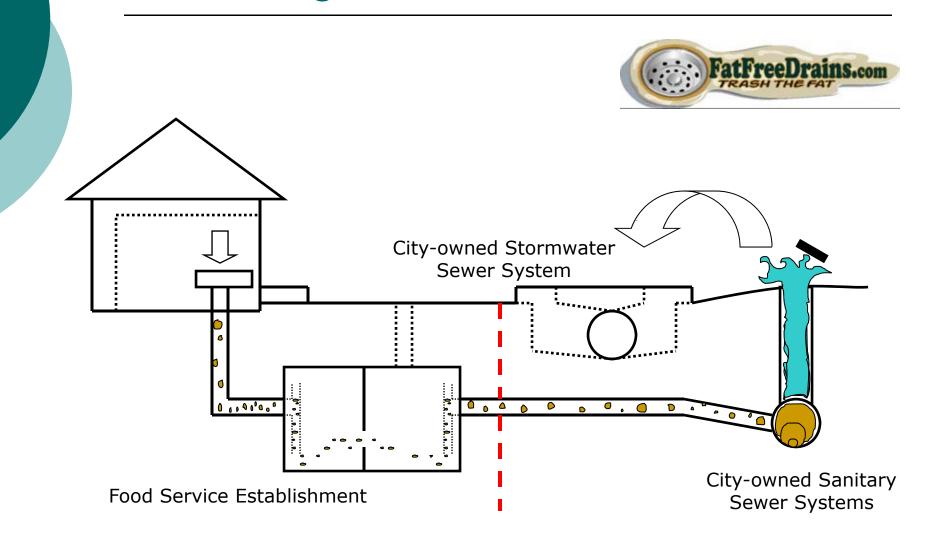
 Clean and maintain kitchen fixtures regularly or as required to control FOG buildup.





- Use the smallest quantity of chemicals and soap possible to maintain a sanitary kitchen.
- Too much use of a cleaning product can allow the FOG to pass beyond grease traps and interceptors.





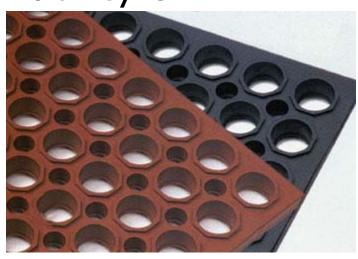
- Put yellow grease in a grease recycling bin, usually located outside the FSE.
- Keep the lid on the grease bin closed so that rainwater does not get in. Spills or overflows from FOG containers and dumpsters are
  - extremely damaging to the stormwater system and harmful to the environment.
- NEVER pour or dispose of grease, oil, food debris, or trash into a grease control device!



- Call the company that is responsible for removing the grease and ask them to empty the bin before the receptacle is full.
- NEVER pour or dispose of FOG, food debris, or trash into the storm water system!



 Clean kitchen floor mats inside over a mop sink or a utility sink.





#### **Grease Control Devices**

- "Last line of Defense" against illicit FOG discharge.
- Install, register, and regularly maintain grease traps and interceptors.
- This keeps wastewater from backing up and overflowing into the FSE and also keeps FOG from damaging the sanitary sewer system.







#### Grease Interceptors

- Most grease interceptors are located outside of the FSE, underground.
- A grease hauler must be hired to clean a grease interceptor.
- If possible, watch the grease hauler to make sure that the interceptor is completely cleaned and free of FOG buildup.



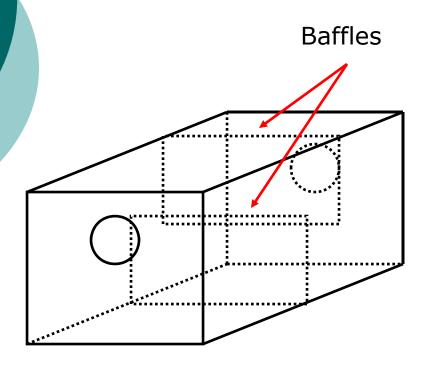


#### Grease Traps

- Grease traps are generally located underneath sinks.
- FSE employees may clean grease traps.
- Grease Control Devices over 50 GPM (100 lb) in size must be cleaned by an approved grease hauler.

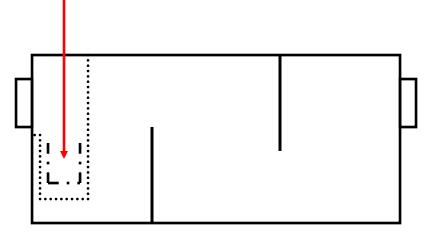












- Clean out the grease trap ENTIRELY.
- Remove the baffle.
- Scrape the baffle and inside walls of the tank to remove FOG buildup.
- Dry wipe the trap rather than using water and cleaning chemicals.







- Trap should be placed so that it is easy to open and clean.
- The grease that is cleaned out should be placed into a container and disposed of in the trash.
- Frequent skimming of the trap makes it easier to clean later.





- A grease trap should be cleaned out completely when about a quarter of its volume is FOG and solids.
- The grease trap should be checked every day to make sure it does not need to be cleaned, and it must be cleaned a minimum of once per week.





#### Maintenance Logs

- After cleaning out a grease trap, remember to enter the information into the GCD maintenance log.
- If a grease hauler cleaned out the trap or interceptor, put the grease hauler's manifest into the maintenance log.
- The date and approximate volume of FOG waste removed should be recorded.
- GCD maintenance documents are to be kept on site at the FSE for three (3) years.

## Recap: Expectations from Training

- FOG discharge and related SSOs are NO accident!
- Illicit FOG discharge causes "hardening of arteries" for the sanitary sewer system.
- Kitchen BMPs act as "diet and exercise" for the sanitary sewer system.
- FOG is generated by various sources from within the FSE.

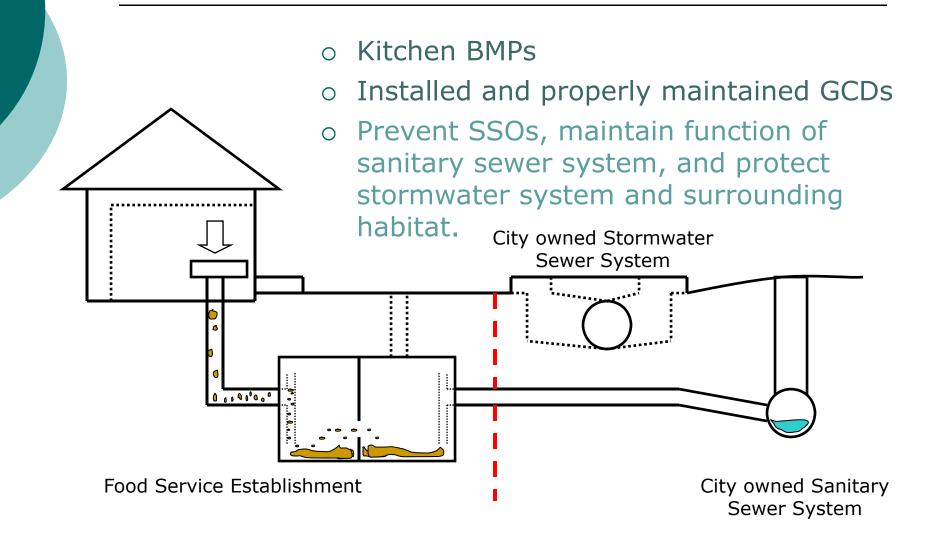


### Recap: Expectations from Training

- Grease Control Devices are the "last line of defense" against illicit FOG discharge.
- <u>NEVER</u> discard grease into storm drains.
- NEVER discard grease directly into a Grease Control Device
- Food Service Establishments are responsible for illicit FOG discharge.









### Fats, Oil, and Grease Program

 By following these guidelines, backups into the restaurant and damage from FOG to the sanitary sewer system is easily avoidable.