

Saving the Planet With a Bar of Soap and a Truck That Smells Like French Fries

The Oil Recycling and Biodiesel Programs of Daphne Utilities

Rex Rentz
Code Enforcement
Daphne Utilities

Danger!




Proactive

in your actions to provide

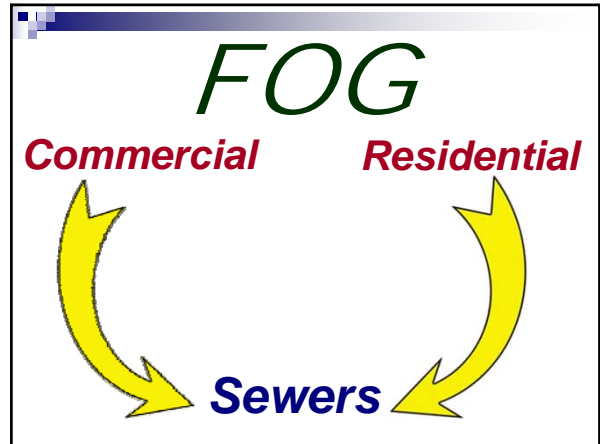
Protection

to the public.

Proactive Protection




Law Enforcement? ***Utility Management?***



Grease Management Program

- Commercial Businesses
- Grease Management Plan



A Thousand Cuts

Every 10k Customers = 7 barrels / month!

The Problem

Clogged Sewers

Clogged Arteries

Cost Effective?

Cost Effective?

Address the Source of the Problem

Oil & Grease Recycling

- Free
- Voluntary
- Residential Customers

Oil Jug

Recycling Stations



The Secret...



...is in WHERE they are.

Grocery Stores



Walmart



Gas Station



Apartment Complex



Recycling Center



Drop It Off



Pick Up The Used Oil



Empty The Jugs





It's Easy to be UNGREASY!

MAWSS
MOBILE AREA WATER & SEWER SYSTEM
Grease Recycling

80% Reduction!

Recycling Locations

MAWSS Regional Center
1360 Navajo Rd., Mobile, AL 36688

Keep it Beautiful
Regional Center
Government St.

Six Greer's Food Tiger Stores:

- 6350 McCrary Rd. Ext., Semmes
- 1260 Navajo Rd., Mobile
- 2980 Springhill Ave., Mobile
- 670 S. Broad St., Mobile
- 1242 Springhill Ave., Mobile
- 184 S. Florida St., Mobile

Hillsdale Community Center
538 Felham Dr.

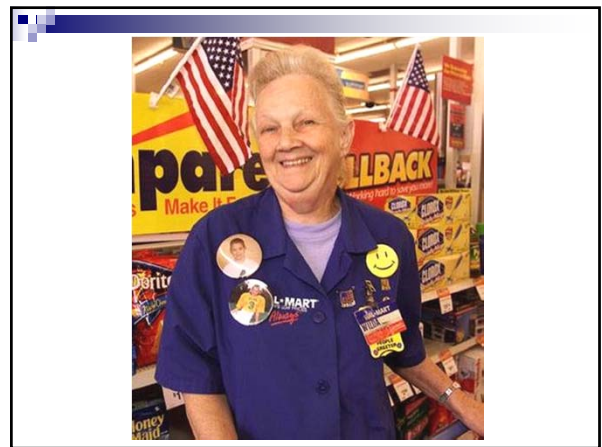
St. Luke's Episcopal School
Japanica Ln. and Azalea Rd.

Homestead Subdivision
1569 Homestead Drive.

Return on Investment

- Start-up cost - \$3,000
- What does a sewer spill cost?





"I've got an idea..."



(Embrace the happy accident)

Biodiesel Plant



- Converts used oil into biodiesel fuel



Biodiesel Plant Mark I



Biodiesel Plant

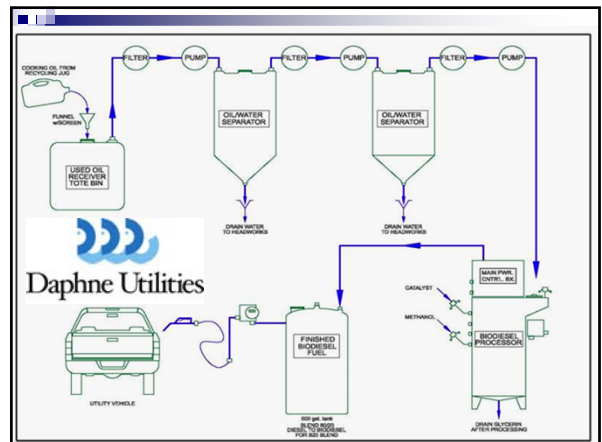


Mark II

Biodiesel Plant



Current Plant





BioPro 190



Springboard
Biodiesel

www.springboardbiodiesel.com



UTAH BIODIESEL SUPPLY

www.utahbiodieselsupply.com



Finished Fuel B20

*20% biodiesel
80% regular diesel*

Biodiesel Uses



Fleet Fuel

“My truck smells like French fries!!”

Emergency Generators



B20 Biodiesel

<u>Emission Type</u>	<u>B20</u>
Carbon Monoxide	- 12.6%
Hydrocarbons	- 11%
Nitrogen Oxides	+1.2 %
Carcinogens	- 12% - 20%
Carbon Dioxide *	- 15.7%

Source: National Renewable Energy Laboratory (NREL) Golden, Colorado

Biodiesel



- Less smoke
- Greater lubricity
- Superior detergency

Benefits to Us

- Low cost (**about \$1/ gallon**)
- Made from a **pure waste product**
- **A powerful story**



Return on Investment

- Start-up cost - \$12,000
- Save \$1 - \$3 per gallon
- 100 gals per week X 40 weeks
- \$4,000 - 12,000 annual savings
- The Story - Priceless

Glycerin



By-Product of Making Biodiesel

Glycerin



By-Product of Making Biodiesel

Glycerin Soap



A Creative Connection!!!

BIO DIESEL USA GROWN SOY

Your FRIES Give me GAS!



ethanol

DRIVE VEGETARIAN!

What We're NOT



Award Winning Utility



Oil Recycling and Biodiesel today...



...protects the water supply of tomorrow!



Daphne Utilities

Questions?

Rex Rentz
www.daphneutilities.com
(251) 626-2628