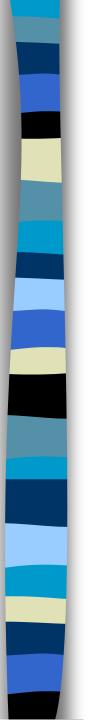
# Sump and Grease Trap Wastes

#### A primer







## **Sump Wastes**

Sumps divided into two categories:

Car Wash Sumps

Other Sumps

#### **Other Sumps**

ARM 17.50.814(3) states:

"A person may not pump or dispose of wastes from any type of sump <u>other than a</u> <u>car wash sump</u> unless the person has first applied to the department and received its approval...."











#### **Other Sumps**

So, what does this mean?

You may not pump any sump other than a car wash sump <u>unless</u> the Department has issued you approval specific to that particular sump. The Department will evaluate these "other sumps" on a case-by-case basis.



## **Other Sumps**

So, what do you need to submit to obtain approval to pump and dispose of waste from "other sumps"?



# **Car Wash Sumps**

Car wash sumps further divided by type:
Automatic
Attended
Unattended

#### **Car Wash Sumps**

What is an Automatic Car Wash? ARM 17.50.802(5) defines an Automatic Car Wash as:

"... a place for washing trucks or automobiles that has machinery designed to do the washing without allowing access to the bay during the process."

Automatic Car Wash



#### **Car Wash Sumps** Automatic Car Wash Sump Waste Disposal Options

- May be land-applied;
- May be used as clean fill;
- May be used as daily cover at a licensed solid waste landfill if dewatered first.

Regardless of final disposal option chosen, disposal can only occur at a pre-approved site.

#### **Car Wash Sumps** What is an Attended Car Wash?

ARM 17.50.802(4) defines an Attended Car Wash Bay as:

"... a place for washing trucks or automobiles that has an attendant on site while open to the public." (continuous supervision)

#### Car Wash Sump Attended Car Wash Sump Waste Disposal Options

Step

Must first

perform visual

check for oil and

# Car Wash Sumps Option #1 Attended Car Wash Sump Waste Disposal Options If the car wash prohibits the use of chlorinated solvents and if the waste contain

chlorinated solvents <u>and</u> if the waste contains no visible oil or grease, the waste may then be used as clean fill <u>ONLY</u> if the car wash owner provides the pumper a written statement that the material is solvent-free (ARM 17.50.814(5))

# Car Wash Sump Option #2 Attended Car Wash Sump Waste Disposal Options

If the car wash prohibits the use of chlorinated solvents **but** the waste contains visible oil or grease, the material may be landfarmed in accordance with the Solid Waste rules, <u>or</u>, if dewatered, the material may be disposed at a licensed Class II landfill <u>with</u> the operator's permission

## Car Wash Sump (Option #3 Attended Car Wash Sump Waste Disposal Options

If the car wash does not prohibit the use of chlorinated solvents, the sump waste must be handled in the same manner as an unattended car wash bay sump

#### **Car Wash Sumps** What is an Unattended Car Wash?

ARM 17.50.802(35) defines an Unattended Car Wash Bay as:

"... a place for washing cars or trucks that is not an automatic car wash bay and does not have continuous supervision while open to the public."

#### Unattended Car Wash

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#### Unattended Car Wash

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WEIROR

Does not have continuous supervision. Open to the public 24-hours.

Why?

Contract In the second

PUNS

#### Car Wash Sumps Unattended Car Wash Sump Waste Disposal Options

Step

Must first

perform visual

check for oil and



#### Car Wash Sump Unattended Car Wash Sump Waste Disposal Options

Waste must be screened for chlorinated solvents

#### OR

The owner must provide the pumper with a statement concerning the solvent-free status of the material

# **Car Wash Sumps**



Unattended Car Wash Sump Waste Disposal Options

If the pumpings do <u>not</u> contain visible oil and grease and are known to be free of chlorinated solvents (by testing or knowledge) the material may be used as either clean fill or, if dewatered, as daily or intermediate landfill cover

# **Car Wash Sumps**



Unattended Car Wash Sump Waste Disposal Options

If the pumpings contain visible oil and grease but are known to be free of chlorinated solvents (by testing or knowledge) the material may be either landfarmed or disposed of at a licensed Class II landfill with the operator's permission

# It may be clean fill, but....

- Din a

Grease trap waste consists of the oily and greasy residue separated from the wastewater discharge of a food preparation operation and collected in a specialized separation and storage containers.

#### GTW Characteristics:

- Total Solids: 6%
- Total Volatile Solids: 88%
- Fats, Oils, Grease: 1.1%
- pH: 4.4
- Total Nitrogen: 0.0056%
- Total Phosphorus: 0.0029%
- Potassium: 0.0036%

Source: Pumper Magazine, March, 2000

#### GTW disposal options:

#### Rendering Facilities

Inferior fat source with high cost to filter into renderable material that yields a low grade product (tallow)

#### Landfill

GTW must first be dewatered – tipping fees may be cost prohibitive

#### WWTP

Few facilities accept because of high organic loading to system with a difficult to treat material

**Grease Trap Wastes** GTW disposal options:

Land Application

GTW typically contains less than 1% nitrogen GTW is a source of carbon

GTW is subject to tilling requirements

#### **Grease Trap Wastes** O&M considerations for the Land-Application of GTW

- Liquid fraction (fats) and water disperseWater percolates readily
- Fats coat soil particles and percolate more slowly This makes soil surface water repellent and causes soil-pore blockage
- Mechanical incorporation disperses the fats into the soil, aerates the soil, helps to reduce odors and allows for greater application rates

Limited research – NAWT study (Pumper magazine, March, 2000)

Application rate: approximately 16,000 gallons/acre

GTW application must be documented in your records

Land applied GTW must be incorporated within 6hours of application