Illegal Disposal of Trucked Waste into the Town of Cary Sanitary Sewer

A felony could be occurring right under your feet!

Town of Cary
Utilities Department
Pretreatment Division
Disclaimer

• All information contained in this presentation is for training purposes of Town of Cary personnel

• No copying or distribution of this presentation shall occur without prior approval from the Town of Cary.
Discharge Prohibitions:

**Federal**-EPA: 40 CFR Part 403.5(b)
  - *Trucked or hauled pollutants, except at Town-designated points* (criminal)

**Federal**-US Code: Title 33 Chapter 1319(c)(2)(a)
  - *Willful violation of approved pretreatment program* (criminal)

**State** - 15A NCAC 2H.0909: Pretreatment rules
  - *Trucked or hauled pollutants, except at Town-designated points* (civil)
  - NCG.S. § 14-399(a) littering (criminal)
    - § 14-399(e) littering > 500 lbs (criminal)

**Local** – Sewer Use Ordinance: Section 36-173 (civil)
  - 36-173(2)(b) solids, viscous materials
  - 36-173(2)(h) – trucked or hauled wastes
  - 36-173(2)(p) – fats, oils, greases at problem levels
Class I Felony

NC General Statute § 14-399(e) – Littering

Any person who violates subsection (a) of this section in an amount exceeding 500 pound or in any quantity for commercial purposes, or who discards litter that is a hazardous waste as defined in GS 130A-290 is guilty of a Class I felony
Facilities where a vacuum tanker truck may perform a service

- Food Service Establishments
- Automotive Facilities
- Industrial / Commercial Facilities
- Septic Tanks
Typical Vacuum Tanker Truck

- Site glass for tank liquid levels
- Connection for vacuum hose
- Company Name
- NCDWM Permit #
- Telephone #
- Displayed on both sides of vehicle
Typical Grease Trap Locations
Typical Grease Trap/Interceptor Design

- *Inlet Pipe* from Kitchen
- *Outlet Pipe* to Town Sewer
- *Manhole Cover* Access for Cleaning and Inspection
- *Inlet Sanitary Tee* may be present
- *Baffle Wall and Sanitary Tee*
- *Outlet Sanitary Tee*
- *Penetration through baffle wall*
- *Water Level* 48” – 60” deep
- *1st Compartment* 2/3 of tank length
- *2nd Compartment* 1/3 of tank length
Outlet Sanitary Tee (PVC)

Outlet tee may contain a threaded cap, needs to be removed.

Outlet pipe to Town Sewer.

Grease Accumulation
Outlet Sanitary Tee (Concrete)

- Concrete, cast-in-place sanitary tee
- Outlet pipe to Town Sewer
- Concrete baffle wall
Grease Trap
Before & After Cleaning

BEFORE

AFTER
Outlet sanitary tee
Grease Trap Fluid Levels

Discharge to Town Sewer
Static Water Level

Inlet Pipe from Kitchen

Wastewater Flow

2"– 4" difference from inlet pipe invert and outlet pipe invert. Inlet pipe will be higher than outlet pipe.

Baffle Wall and Sanitary Tee

Inlet Sanitary Tee may be present

1st Compartment

2nd Compartment

Water Level at Outlet Pipe Invert

Water Level above Outlet Pipe Invert

Outlet Sanitary Tee

Town of Cary Sewer

Outlet Pipe to Town Sewer

Manhole Cover
Access for Cleaning and Inspection

2/3 of tank length

1/3 of tank length
How a Grease Trap Works

1st Compartment

Inlet Pipe from Kitchen

Manhole Cover

Food Solids/Debris

Grease

Grease Floats

Solids Settle

2nd Compartment

Grease

Outlet Pipe to Town Sewer

Manhole Cover

Food Solids/Debris
Discharge into Grease Trap

Water level will rise in GT when incoming flow is greater than what the outlet pipe can discharge.

Tanker truck hose is typically 3-4 inches in diameter.

Discharge into the grease trap can occur in any compartment and cause the trap to surcharge.

Incoming flow greater than outlet pipe discharge.

VIOLATION

Inlet Pipe from Kitchen

Manhole Cover

Outlet Pipe to Town Sewer

Grease

Grease

Food Solids/Debris

Food Solids/Debris

1st Compartment

2nd Compartment

Surcharge
Signs of Illegal Discharge

**IMPORTANT**

A visual inspection of the outlet sanitary tee should be made as soon as an Officer arrives on scene.

If a discharge is noted, a violation is occurring.
Reasonable Suspicion to Investigate Illegal Discharges

- Company name, telephone #, or permit # not displayed on vacuum tanker truck
- License tag is covered by piping, heavy accumulations of grease, or is placed where it cannot be seen (illegible or covered)
- Truck operator inserts hose, opens valves and does not attend the hose
Reasonable Suspicion to Investigate

Truck Operator:

- Does not open or insert hose in all compartments of the grease trap
- Returns to truck or operates valves when officer arrives on scene
- Parks truck to obstruct visibility of the grease trap
- Parks, operates in a suspicious, non-conforming area
Signs of Illegal Discharge

- Discharge into any storm water or sanitary sewer conveyance (manhole, storm drain)
- Visual observation of discharge of waste in the outlet sanitary tee; tees submerged
- Liquid level in grease trap is rising above static water level rather than lowering
- Turbulent conditions in the grease trap above the static water level
Inconspicuous Disposal of Grease Trap Wastes
Illegal Disposal Scenario
Multiple Grease Trap Pump and Dump

This cycle can continue with multiple grease traps throughout the day!

DISCHARGE TO MUNICIPALITY
VIOLATION
Illegal Disposal Training Video
In the event of an illegal discharge

The following Town of Cary Utilities Department personnel should be notified as soon as possible, in order to inspect the sewer system for potential blockages and/or discharge of material that may impact the Town’s water reclamation facilities:

8:00 AM – 5:00 PM
Public Works and Utilities Customer Service
Ph: 919-469-4090
Radio Channel: 1A  Z2 PWUT

5:00 PM – 8:00 AM
Town of Cary Police Communications

Communications has access to the contact list for the Repair Team, Night/Weekend, and On-call Personnel
In the event of a known illegal discharge

The following Town of Cary Utilities Department personnel should be contacted to follow up after an illegal discharge:

Mr. Jamie Revels
Utilities Director
Office: XXX-XXX-XXXX
Cell: XXX-XXX-XXXX
E-Mail: XXXX@tXXXX

Maria Vanderloop
Utility Pretreatment Program Supervisor
Office: 919-319-4564
Cell: 919-621-7986
E-Mail: maria.vanderloop@townofcary.org

Mr. Donald Smith
Wastewater Collections Program Manager
Office: 919-469-4095
Cell: 919-609-7306
E-Mail: donald.smith@townofcary.org
**Littering Warrant**

**Obtained by Police Dept through NC Aware**

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**STATE OF NORTH CAROLINA**

**WAKE**  County

In The General Court Of Justice

District Court Division

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**WARRANT FOR ARREST**

**Offense**

LITTERING

THE STATE OF NORTH CAROLINA VS.

**Name And Address Of Defendant**

**County Of Residence**

**Telephone No.**

**Race**

**Sex**

**Date Of Birth**

**Age**

**Social Security No.**

Drivers License No. & State

**Name Of Defendant’s Employer**

**Offense Code(s)**

Offense In Violation of G.S. 14-399

**Date Of Offense**

**Date Of Arrest & Check Digit No. (As On Fingerprint Card)**

**Complainant (Name, Address Or Department)**

Officer

Cary Police Department

316 N. Academy Street

Cary, NC 27513

**County Of Residence**

Wake

**Telephone**

(919) 469-4012

**Name & Address Of Witness (Including Counties & Telephone Nos.)**

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This act(s) was in violation of the law (s) referred to in this Warrant. This Warrant is issued upon information furnished under oath by the complainant listed. You are DIRECTED to arrest the defendant and bring the defendant before a judicial official without unnecessary delay to answer the charge(s) above.

**Signature**

**Location Of Court**

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**Misdemeanor Offense Which Requires Fingerprinting Per Fingerprint Plan**

Date Issued

- [ ] Magistrate
- [ ] Deputy CSC
- [ ] Clerk of Superior Court

**Court Date**

**Court Time**

- [ ] AM
- [ ] PM

(Over)