

NPDES



What is Illicit Discharge

- Anything that is not entirely made of stormwater that enters the stormwater system.

Exceptions: allowable, non-stormwater discharges, discharges pursuant to another NPDES permit, and discharges resulting from fire-fighting activities.

REMEMBER ONLY RAIN DOWN THE DRAIN!

Types of Illicit Discharges

- Continuous
 - Occurs continuously to nearly continuously
 - Usually easier to detect
 - Typically greatest pollutant load
- Intermittent
 - Occurs over a shorter period of time (a few hours per day, few days per year)
 - Harder to detect
- Transitory
 - Occurs in response to singular event (spill, sewer break, transport accident, illegal dumping)
 - Hardest to identify during routine screening



Types of Illicit Discharges

Mode of Entry:

- Direct
 - Enter via piped connection
 - Usually continuous or intermittent
 - Sewer cross connections, straight pipe, industrial and commercial cross connections
- Indirect
 - Enter via storm drain inlets or by infiltration
 - Usually intermittent or transitory
 - Groundwater seepage, spills, dumping, outdoor washing, non-target irrigation



Stormwater Pollutants

Activity	Pollutant
Vehicle washing/maintenance	<ul style="list-style-type: none">Heavy metalsOils and greaseSurfactants/detergentsSolvents
Pet Waste	<ul style="list-style-type: none">Bacteria
Lawn maintenance/landscaping	<ul style="list-style-type: none">Fertilizers and pesticidesNutrients
Failing septic systems / sewer cross connections / SSOs	<ul style="list-style-type: none">Bacteria
Illegal dumping / spills from vehicular accidents	<ul style="list-style-type: none">Oil and greaseToxicsNutrients (from lawn waste dumping)
Swimming pool draining	<ul style="list-style-type: none">Chlorine
Construction sites	<ul style="list-style-type: none">Sediment
Cleaning greasy equipment and grease traps	<ul style="list-style-type: none">Fats, oils, and grease

Stormwater Pollutants

- Heavy metals
- Toxics
- Oil and grease
- Solvents
- Surfactants/
detergents
- Nutrients
- Bacteria
- Sediment



Examples of Illicit Discharges

- Chlorinated pool water
- Spills from car accidents
- Failing septic fields
- Dumped material
- Cross connections
- Track Out
- Sanitary sewer overflows
- Contaminated sump
- Floor drains



Indicators of an Illicit Discharge

- Unusual flow
- Pungent odors
- Excessive or dead vegetation
- Excessive sediment
- Discoloration or oils sheen or stains
- Residual evidence (i.e. toilet paper)

Allowable Non-Stormwater Discharges

- Water line flushing
- Landscape Irrigation
- Diverted stream flows
- Rising ground water
- Uncontaminated ground water infiltration
- Uncontaminated pumped groundwater
- Discharge from potable water sources
- Foundation drains
- Air conditioning condensation
- Irrigation water, springs
- Water from crawl space pumps
- Footing drains
- Lawn watering
- Individual resident car washing
- De-chlorinated swimming pool discharges
- Street wash waters
- Residential building wash waters without detergents

What do you do?

- 1) Take a Picture
- 2) Report to Jennifer Aldridge
- 3) The Property Owner will be notified
- 4) The Property Owner will be given 2 weeks to respond & fix the violation.
- 5) If not in compliance than it will be turned over to Code Enforcement

Stormwater Pollution Prevention



Pollution Prevention/Erosion Control

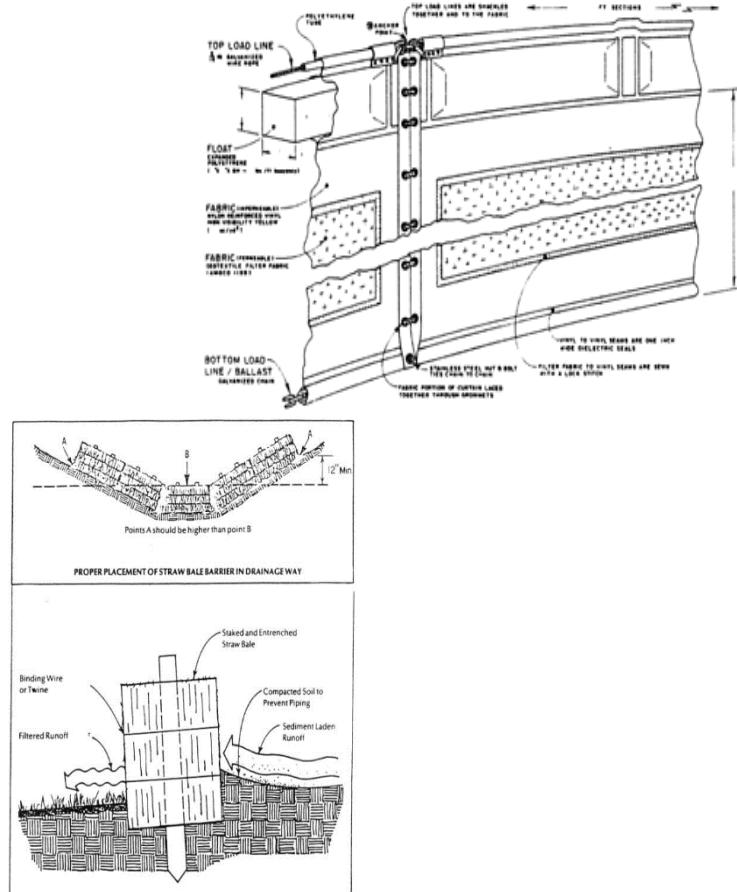
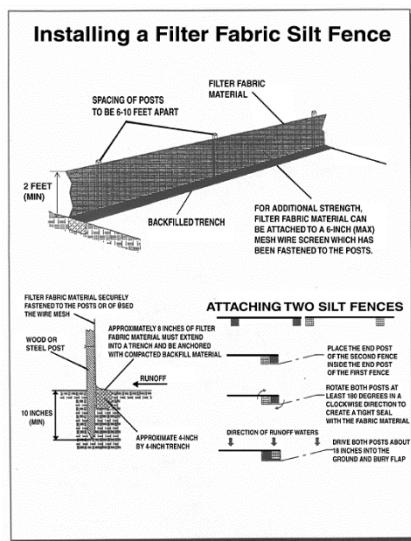
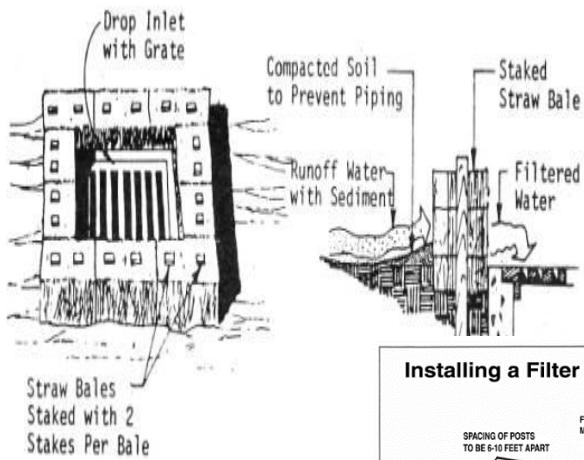
Tools to use:

- Inspections
- Good Housekeeping
- Closed containers
- Compatible chemicals
- Properly maintained equipment
- Silt Fences
- Hay Bales

Erosion Control



Details



Violations



What do you do?

- 1) Take a Picture
- 2) Report to Jennifer Aldridge
- 3) The Property Owner or contractor will be notified
- 4) The Property Owner or contractor will be given 2 weeks to respond & fix the violation.
- 5) If not in compliance than it will be turned over to Code Enforcement

Questions

