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TO:	CHAIR AND MEMBERS BUILT AND NATURAL ENVIRONMENT COMMITTEE MEETING ON SEPTEMBER 12, 2011
FROM:	RON STANDISH, P. Eng. DIRECTOR, WASTEWATER AND TREATMENT, PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES
SUBJECT:	BROCHURES

RECOMMENDATION

That, on the recommendation of the Director, Wastewater and Treatment, Planning, Environmental and Engineering Services, this report **BE RECEIVED** and reported to Municipal Council for their information.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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None.

BACKGROUND

Purpose:

To present information on Sewer Use Brochures developed under a grant from the Ministry of the Environment under the Canada Ontario Agreement.

Context:

A contract between the Ministry of the Environment and the City of London was signed in December 2009 to prepare brochures that would be available to other municipalities on a freeware basis (without copyright).

Discussion:

The City of London entered into a contract to receive grant money (\$20,000) to develop sewer use brochures with the assistance of the Municipal Enforcement Sewer Use Group (MESUG). This group consists of representatives from 27 municipalities from Windsor to Ottawa to Sudbury including county and regional municipalities. MESUG developed the key messages and the Communications Department worked with contracted graphic artist companies to develop the brochures.

The first four brochures were released in the fall of 2010 and they are:

- Storm Sewer – Why water should be the only thing entering our storm sewers
- Food Waste Grinders – Why you should not use a food waste grinder
- Pools, Spas and Hot tubs – Drain your Pool the right way
- Restaurant Grease – Why you should dispose of grease properly

The next set of sewer use brochures (Appendix A) are now available on the City's website and they are:

- New construction site management - Best practices for Drainage, Sediment and Erosion Control During Construction

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- Sinks are not Garbage Cans – Fats, Oil and Grease
- Proper waste disposal in Dental Offices – Best Management Practices
- Toilets are not garbage cans – Don't flush other stuff

The generic brochures were provided to the MESUG group along with the graphic artist design files for their use and modification as they see fit for their own municipalities. The brochures for the City of London are located at the following links and have been modified specifically for the City of London.

[http://www.london.ca/d.aspx?s=/Sewer and Wastewater/How can you help.htm](http://www.london.ca/d.aspx?s=/Sewer%20and%20Wastewater/How%20can%20you%20help.htm)



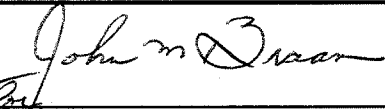
[http://www.london.ca/d.aspx?s=/Sewer and Wastewater/sewage for business.htm](http://www.london.ca/d.aspx?s=/Sewer%20and%20Wastewater/sewage%20for%20business.htm)

Summary:

City staff worked closely with MESUG representatives and the Communications Department as noted above. Generic Brochures were provided to the MESUG, the Water Environment Federation of Ontario (WEAO), the Canadian Water and Wastewater Association (CWWA) and the Ministry of the Environment.

Acknowledgements:

This report was prepared within the Wastewater Operations Division by Tony Van Rossum, Environmental Services Engineer.

SUBMITTED BY:	RECOMMENDED BY:
	
GEORDIE GAULD DIVISION MANAGER WASTEWATER TREATMENT OPERATIONS	RON STANDISH, P. Eng. DIRECTOR, WASTEWATER AND TREATMENT, PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES
REVIEWED & CONCURRED BY:	
	
PAT MCNALLY, P.ENG. EXECUTIVE DIRECTOR, PLANNING ENVIRONMENTAL AND ENGINEERING SERVICES	

August 31, 2011

c.

DID YOU KNOW?

MEATS, GRAVIES, SOUPS,
SALAD DRESSINGS, DEEP FRIED
DISHERS, DAIRY PRODUCTS AND
BUTTER ALL CONTAIN FATS,
OIL AND GREASE

USING A STRAINER IN
YOUR SINK PROTECTS OUR
SEWER FROM FOOD WASTE

FATS, OIL AND GREASE
CAN PLUG YOUR SEWER
AND CAUSE BASEMENT
FLOODING

YOU CAN PUT WASTE OIL,
GREASE AND FOOD SCRAPS
INTO A GREEN BIN,
IF AVAILABLE

WASTE FATS AND GREASE
CAN BE USED TO MAKE
SUET AND FED TO BIRDS

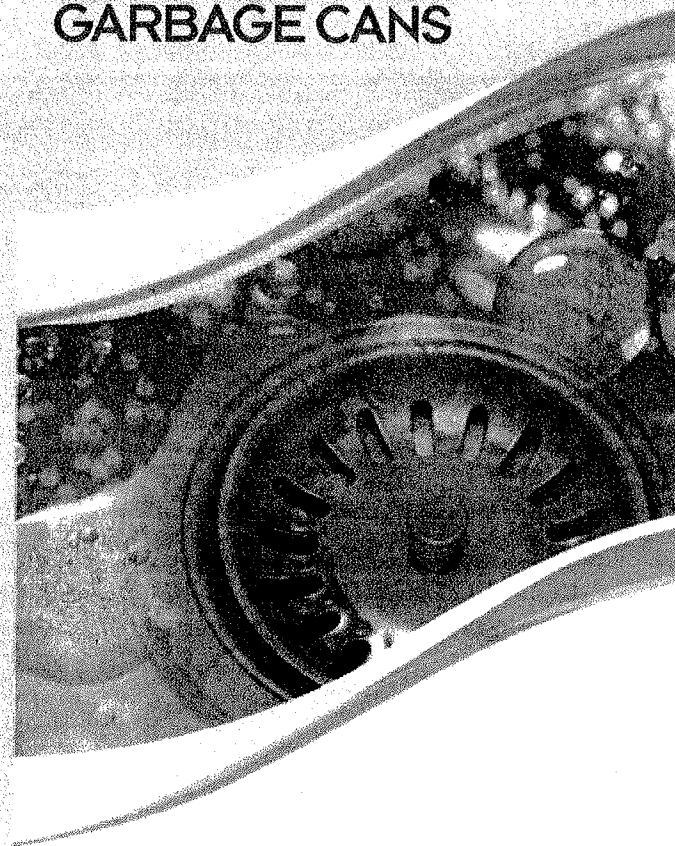
HOUSEHOLD FATS, OIL AND GREASE (FOG)

- Meats
- Pastas
- Sauces
- Pastries
- Gravies
- Butter and margarine
- Salad dressings
- Deep fried dishes
- Dairy products
- Soups
- Chili



PROTECT OUR ENVIRONMENT

SINKS ARE NOT
GARBAGE CANS



Contact information:
Pollution Control Operations
City of London
519-661-5701
london.ca

FATS, OIL
AND GREASE

APPENDIX 'A'

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HOW ARE FATS, OIL AND GREASE

CAUSED BY COOKING OIL AND FAT?

When fats, oil and grease from food are poured down the drain, they are often in a warm liquid. This may not seem harmful but, as the liquid cools, the grease becomes a hardened mass.

As grease build ups over time, this mass restricts the flow of sewage – both on your property and under the roadway.

In fact sewer pipes blocked by grease are an increasingly common cause of sewage back-ups in homes as well as sewer overflows. Each year, a considerable amount of time and money is spent cleaning clogged pipes throughout the city as a result of grease in the sanitary sewer system.

WHAT CAN WE DO TO PREVENT THIS?

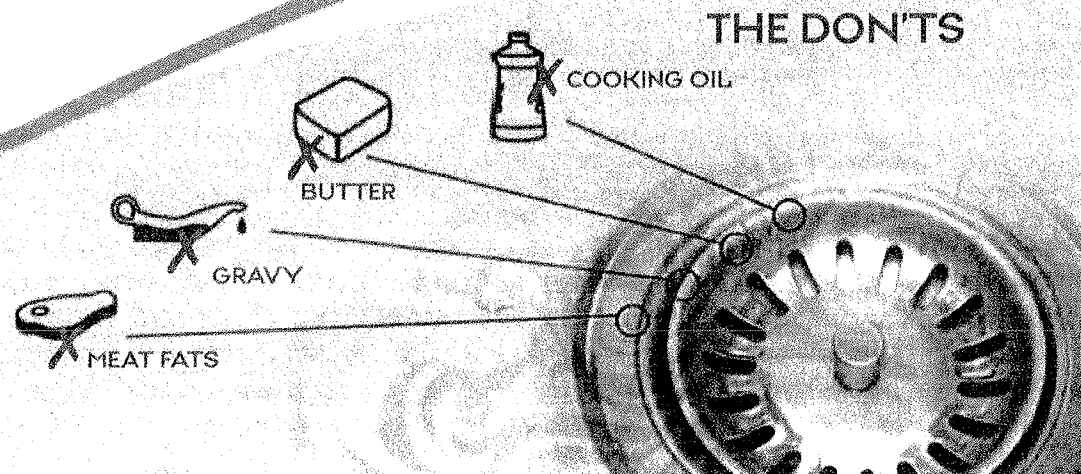
DO

- DO wipe out greasy pots, pans, and utensils with paper towel before putting them into the sink
- DO place grease and food scraps into a green bin to be disposed of in the curbside organics collection program (if available)
- DO use a strainer in the sink to catch food scraps and other solids
- DO place grease in a jar or can and store it. Once the grease solidifies place it into the garbage, green bin or feed it to birds as suet feeders
- DO inform friends and neighbours about the problem with fats, oil and grease in the sewer system

DO pour turkey and roast drippings into a container and dispose in green bin or garbage

DON'T

- X DON'T pour grease down the sink or into the toilet
- X DON'T rinse grease down the sink. Once the grease and water cool, the grease deposits onto the sides of the sewer pipe, blocking the pipe over time
- X DON'T use cloth towels or rags used to wipe off plates or clean greasy dishware. When the towels are washed the grease will end up in the sewer
- X DON'T pour turkey or roast drippings down your toilet



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DID YOU KNOW?

EVERYTHING PUT IN YOUR TOILET GOES TO A WASTEWATER TREATMENT FACILITY

DRAINS AND SEWERS ARE DESIGNED FOR HUMAN WASTES, TOILET PAPER AND WASTEWATER ONLY

FLUSHING PAPER TOWELS AND OTHER GARBAGE DOWN THE TOILET CAN CREATE SEWER BACKUPS AND OVERFLOWS

FOOD WASTE SHOULD BE PUT IN YOUR COMPOSTER OR GREEN BIN

SPECIAL WASTES DEPOTS WILL TAKE MANY HOUSEHOLD CHEMICALS AND WASTES

DISPOSING OF MEDICINE

- Medicines flushed down toilets can end up in streams, rivers and lakes.
- Low concentrations of medicines are being found in sewage and surface waters.
- Remember to always dispose of medicines by taking them to your pharmacy.
- Never flush medicine down the toilet.

DISPOSING OF HOUSEHOLD SPECIAL WASTE (HSW)

HSW is any material that is corrosive, flammable, ignitable or reactive – and includes household items such as bleach, cleansers, nail polish and paint. Items considered HSW should never be put down the sink or flushed down the toilet. Instead, it should be taken to the City's Household Special Waste depot at the W12A landfill site, 3502 Manning Drive – for proper disposal.

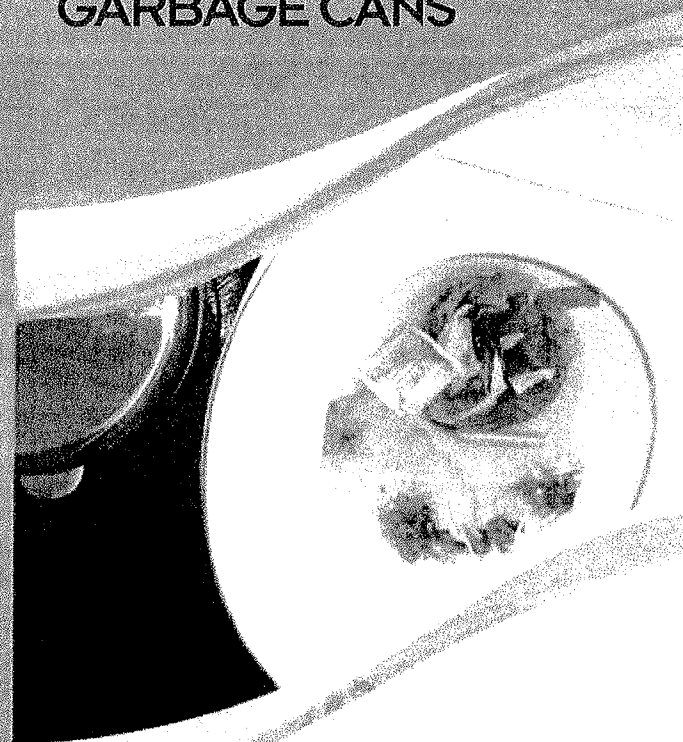


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PROTECT OUR ENVIRONMENT

TOILETS ARE NOT GARBAGE CANS



DON'T FLUSH OTHER STUFF

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HOW THE SANITARY SEWER SYSTEM WORKS

Everything flushed down your toilet or household sinks goes to our sanitary sewer system

The sanitary sewer system is a series of underground pipes that transport sewage to a wastewater treatment facility. There, the sewage is treated to a regulated standard and then released into local rivers or lakes

HELP MINIMIZE IMPACTS ON THE ENVIRONMENT

Sometimes waste items can pass through the sewage treatment plant and end up in streams, rivers and lakes. It's extremely important to keep medicines and household wastes out of the toilet and dispose of them properly.

WHAT SHOULD I DO?

FLUSH THE RIGHT STUFF

Make sure you only flush toilet paper down your toilet. Our sewage system isn't designed to handle anything else.

Even items that claim to be flushable should be disposed of in another manner.

HELP PREVENT BACK-UPS AND OVERFLOWS

Flushing the wrong things down your toilet can block sewer pipes. This may create sewer backups and lead to basement flooding. It can also cause sewage overflows into local rivers and lakes.



KNOW HOW TO CORRECTLY DISPOSE OF ITEMS

PUT IN THE GARBAGE

- ✓ Baby wipes
- ✓ Bandages, bandage wrappers
- ✓ Cigarettes
- ✓ Cleaning wipes
- ✓ Colostomy bags
- ✓ Combs or brushes
- ✓ Razors
- ✓ Condoms
- ✓ Cotton balls, swabs or pads
- ✓ Dental floss
- ✓ Disposable diapers
- ✓ Fats, oils and grease
- ✓ Food waste
- ✓ Hair
- ✓ Kitty litter
- ✓ Newspaper
- ✓ Rags, cloths
- ✓ Rubber or plastic items (eg. Latex gloves)
- ✓ Sanitary pads
- ✓ Sanitary tampon applicators
- ✓ Tights and pantyhose
- ✓ Toothbrushes

PUT IN THE COMPOSTER/GREEN BIN

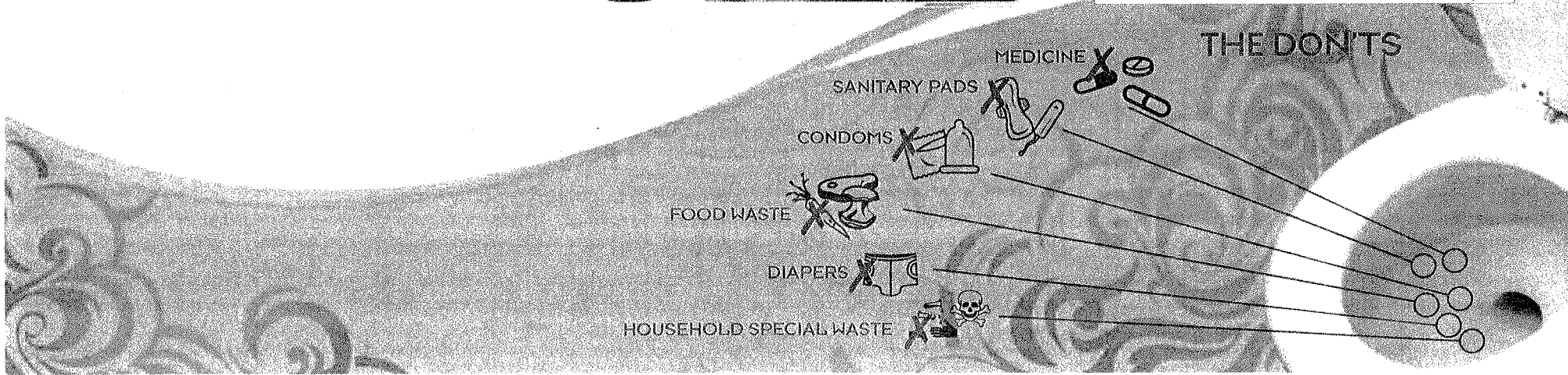
- ✓ Food waste
- ✓ Paper towels
- ✓ Hardened fats, oils and grease

TAKE TO A SPECIAL WASTE DEPOT

- ✓ Antifreeze
- ✓ Motor oil
- ✓ Paint, solvents
- ✓ Used deep fryer oil

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DID YOU KNOW?

FEDERAL, PROVINCIAL
AND MUNICIPAL
LAWS REQUIRE THE
CONTROL OF CONSTRUCTION
SITE RUNOFF

EROSION AND SEDIMENT CONTROL
PLANS ARE AN INTEGRAL PART
OF SITE DEVELOPMENT AND
CONSTRUCTION SITES

SANITARY SEWERS ARE
NOT BUILT TO HANDLE
RAINWATER FROM CONSTRUCTION
SITES AND BASEMENTS

WATER FROM SUMP PUMPS GOES
DIRECTLY TO STREAMS,
RIVERS AND LAKES - RECEIVING
NO TREATMENT

WASH WATER FOR LATEX PAINT OR
CONCRETE SHOULD NEVER GO TO
THE STORM SEWER SYSTEM

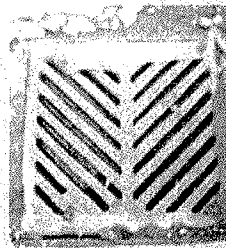
STEPS TO SUCCESSFUL EROSION AND SEDIMENT CONTROL

1. Establish an Erosion Sediment Control Plan (ESCP) based on the City of London's Design Specifications
2. Implement and install controls in accordance with your approved ESCP
3. Monitor and maintain controls throughout construction and address any problems that appear
4. Adjust controls based on what is and isn't working

If a lot of sediment is leaving the site, discuss with a Professional Engineer or the Site Superintendent

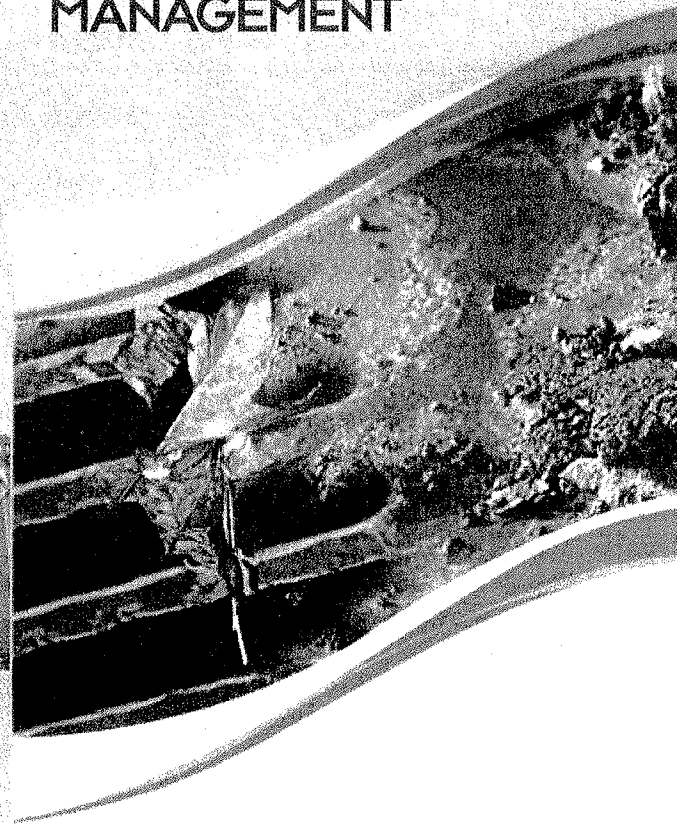
RECOMMENDED CONTROL MEASURES

- Sediment Control Fence
- Gravel or Stone Filter Berms
- Drainage Swale
- Straw Bale Filter Barriers
- Check Dams
- Sediment Dissipation Pool
- Filter Cloth over catch basins



PROTECT OUR ENVIRONMENT

NEW CONSTRUCTION SITE MANAGEMENT



BEST PRACTICES FOR
DRAINAGE, SEDIMENT
AND EROSION CONTROL
DURING CONSTRUCTION



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SEDIMENT AND EROSION CONTROL MEASURES

Sediment and erosion control measures should be used on all construction sites to limit the effects of construction on the surrounding areas and infrastructure

MANAGING CONSTRUCTION WASH WATER

SANITARY DRAIN CONNECTION

- Do not connect Private Drain Connections (PDCs) to the sanitary sewer to drain empty basements or ground water, even temporarily
- Cap the trunk sewer outlet of a subdivision or site plan until there are occupied houses
- Cap PDCs on all individual buildings until the building or home is occupied

VEHICLES

- Change oil and antifreeze off-site
- Provide temporary gravel base on-site
- Wash vehicles off-site at a car wash or establish a designated wash area

Characteristics of a designated wash area

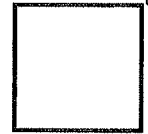
- Well-defined boundaries
- Large enough to park and wash the largest vehicle
- Posted with a sign that forbids washing with solvents
- Does not permit changing oil and indicates the nearest oil recycling facility
- Paved and drained to an oil/water separator
- Connected to the sanitary sewer

CHEMICALS

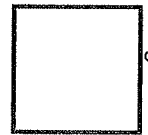
- Minimize the quantity used
- When practical, collect wash water for reuse or discharge to a sanitary sewer
- Educate equipment operators on methods to report and contain spills

CATCH BASINS

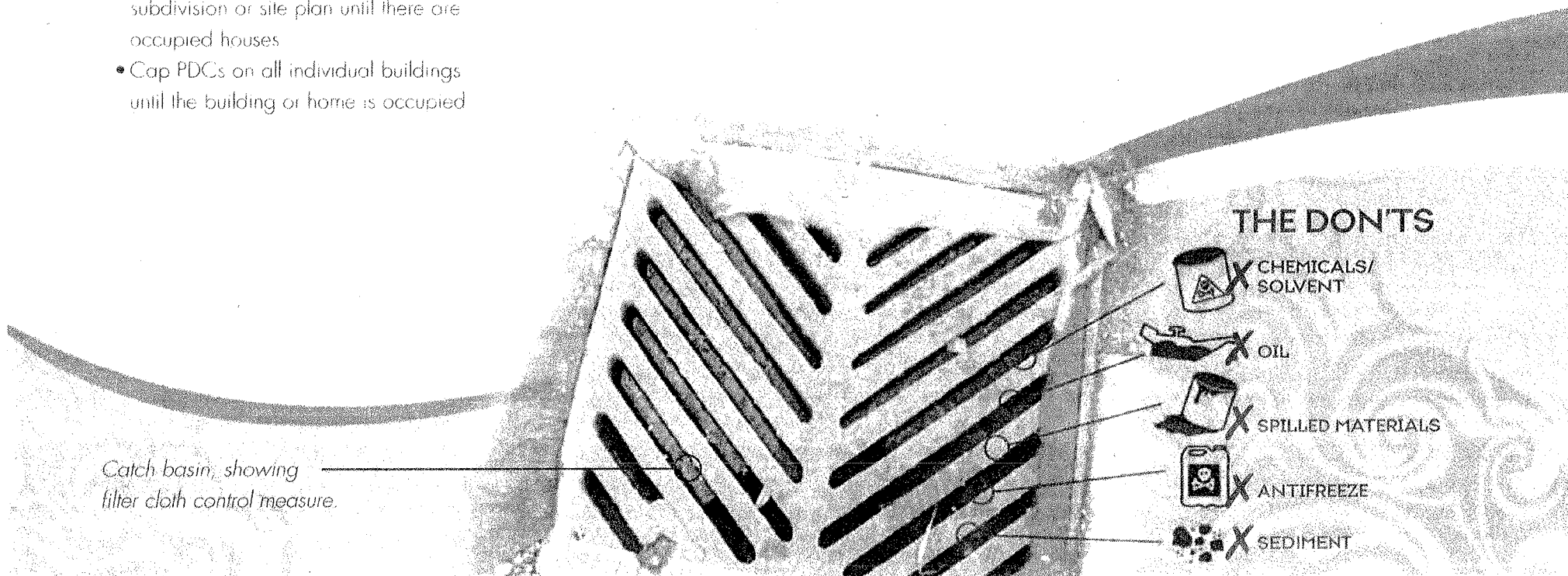
- Do not wash spilled material into catch basins or storm drains
- Where land is being cleared, protect catch basins by covering the inlet with filter fabric
- Properly maintain oil/water separators
- Sweep paved outdoor surfaces rather than spraying with water
- Pick up and properly dispose of sweepings



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Catch basin, showing filter cloth control measure.