



LONDON

TOILETS ARE NOT GARBAGE CANS!!!

Barry Orr, City of London
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Grinder at pumping station.

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Plugged cutters

LONDON



Grinder parts



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- This repair cost was \$40,000

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Collection of rag/garbage materials has increased at pumping stations and treatment plants.

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Plugged inlet .

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Cleaning of wet well.

LONDON



Pumping station ball floats and cable.

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Rag material collected.

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Clean up cost is over \$20,000

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Cleaning of wet well.

LONDON



Wet well clean up taken to landfill

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Plugged inlet to pump.

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Inlet grates.

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Inlet at pumping station



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Plugged pump.

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"This happened on a six week cycle and we do the cleaning ourselves internally".

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Material from plugged pump.

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Pump impeller plugged.

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Collection of rag material.

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Plugged.

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Rag material.

LONDON



Rag material.

LONDON



Investigation of plugged pump.

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Pump not working?

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Grinder destroyed.

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Inlet to pump.(Crane used to remove pump)

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Cleaning out of pump.

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Rag material.

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Grinder plugged.

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Largest non-flushable
rag collection
In the history of
London Wastewater
Treatment.



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Over 12 feet long

Over 300lbs

Contains...

Feminine hygiene products

Condoms

Hair

Baby wipes

Syringes!!





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Equipment repair requires, Operations and Maintenance

2 operators @ 1.5 hours

(shut down/isolation of pump, drain, clean out, back in service and clean up)

1 assistant operations manager @ 30 minutes

(creation of corrective work order and documentation)

Overall it takes approximately 3.5 person hours to unplug a pump blockage.



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Cost to operation budgets.

- \$80,000/year if not more.
- The cost of one raw sewage pump that plugged and jammed was in the neighbourhood of \$5,000.



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5500 Municipalities in Canada

Estimated average cost to operations
is \$50,000 yearly



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\$275,000,000

Cost to deal with non-flushable
material across Canada

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In addition, bar grates or grinders costs...

Coarse screens can cost well in excess of \$500,000 plus regular maintenance.

Grinders can cost \$100,000 plus regular maintenance.

The collected material is still going to landfill, just at a much greater cost to residents.





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\$1,000,000,000

Cost to Canadians

For maintenance and operations



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WHY?

Toilets are not Garbage Cans!



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- Material clogging pumps and screens:
 - Are all wipes the same?
 - Flushable?
 - Non-Flushable?
 - Feminine Hygiene products
 - Paper hand towels
 - Others
 - Condoms, dental floss, cotton swabs and balls, medical gloves and syringes, etc.



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The following slide shows examples of products on the market and are not an endorsement.

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Make every day
refreshingly clean.



NOW WITH 54
MORE WIPES!

LONDON

KIRKLAND
Signature

COMPARE TO
COTTONELLE
FRESH®

KIRKLAND
moist
flushable
wipes

600

Extended
Cleaning & Freshness

Breaks Apart
after flushing

perfect for the
entire family!

FOR A FRESHER CLEAN

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The first and only
flushable
pads and liners

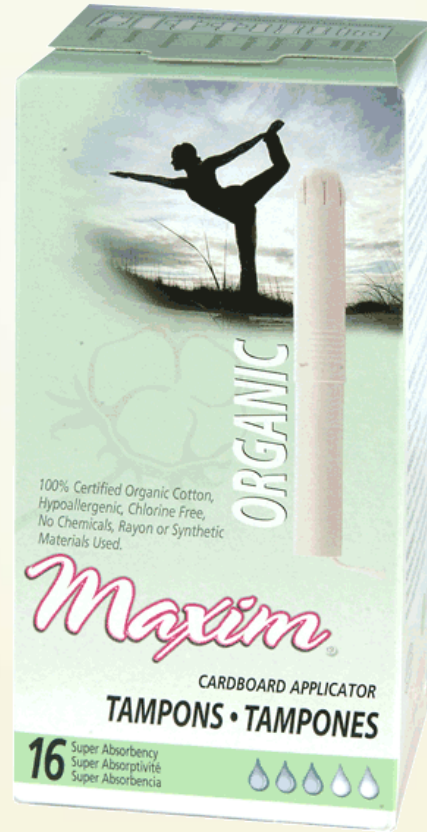
Flushaway

100%
SATISFACTION
GUARANTEED

LONDON



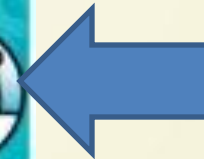
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LONDON



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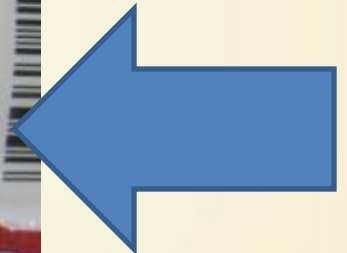


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Back of package

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Sewer Operations.

Increased use of non-flushable wipes and decrease in amount of water used in each flush
(low flow toilets)

“we are seeing an increase in private drain connections (PDC) blockages.”



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Internet search...

The general public is not well informed on proper disposal options to protect their drain and the municipal sewers.

**Posted: Wed, Jan 19 2011, 5:42 pm Post subject:
re: Is it ok to flush baby wipes down the toilet?**

It's happened to us so often that we are on a first name basis with the plumber. Whenever the kids see Alan arriving, they start saying. "I didn't flush any wipes!" Then he extracts globs of soaking wet stretched out wipes from the pipes. Then we extract globs of money.



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Did you know ?

- 1.] **No one regulates** flushable labels!
- 2.] There is **no requirement for third party testing** of flushable products!
- 3.] Flushable product manufacturers test and **regulate themselves !**



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Potential Solutions!

What we need to do!

- 1.] Promote **responsible** product disposal labelling!
- 2.] Promote **environmental awareness**
 - **Toilets are not Garbage Cans!**
- 3.] **Standardize and legislate** flushable product testing !



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Pollution Prevention
is the most cost effective
sustainable method to protect
our environment!

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We can make change,
One step at a time,
and make a difference!

What can we do?

