COLLABORATING WITH CUSTOMERS, RETAILERS AND MANUFACTURERS TO REDUCE FOG AND FATBERGS FROM THE SEWER NETWORK

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Getting to understand FOG
What is the cost?
Who is responsible?
Tackling the problem
FOG (Fats, Oils and Grease)

Who is responsible? – anyone who allows it to enter the sewer

- **Food Service Establishments (FSEs):** Hotels, Restaurants, Fast Food outlets, Pubs, Sandwich shops, Cafes, Shopping Centre Food Halls, Hospitals, Schools, Office Canteens, Prisons etc.

- **Industry:** Food processors & Trade effluent

- **Domestic:** Food preparation & waste
What is FOG and how does it create Fatbergs?

Primarily associated with cooking food
- Cooking oils

Mix with
- Food waste

+ =

- Wipes, debris & sewage

What does FOG in sewers look like?
The FOG problem won't fix itself

**Impact of FOG**
- Blocked sewers
- Flooding (internal & external)
- Sewer jetting & cleaning
- Pollution
- Smells
- Costs of Clean-up, Fines & legal bills

**Opportunities**
- Education & Awareness
- Engaging stakeholders

**Risks**
- Growing problem
- Limits of education alone
- Costs
- Company reputation
- SIM score

**Regulation and Enforcement**
Use of Enforcement teams to carry out investigations – target offenders, build evidence and use legislation

**Opportunities**
- Cost Recovery
- Prosecution
- Reduce maintenance costs, OPEX
- Prevent pollution
- Prevent reputational damage
- Possible to self finance
- Outsource regulation

**Risks**
- Costs
- Limits of current legislation
Lifestyles are changing and so is sewage

Waste Management is essential

The Wastewater Infrastructure is key to successful built environments. They connect societies, protect health & well being, maintain environment & resources, enables investment and tourism, and builds our quality of life.

We all need to take account of the realities and constraints we face today, and we must also look forward and anticipate and plan for the needs of future generations.

People do take infrastructure for granted
In a local news article the Institution of Civil Engineers refer to a survey that claims a third of people in Northern Ireland hardly know the meaning of the word infrastructure, despite it being in their faces from the moment they turn on the kettle or flush the toilet in the morning, to they switch off the lights at bedtime.

- Growing populations
- Rapid urbanisation
- Lifestyle changes
- Convenience foods
- More eating out
- Increasing waste
- Environmental awareness
Legislation changes

Education

Trade Associations

Consumer Awareness

Legislation changes

Regulation

Enforcement, Cost Recovery

The opportunities
Power of engagement

**Education**
- Residential
- Schools & Universities
- Hospitals
- FSE’s
- Community Groups

**Trade Associations**
- Networking
- Trusted voice
- Targeted
- Specific

**Consumer Awareness**
- Environmental Issues
- Personal impact
- Insurance Advice
- Consumer pressure

**Social Media**
- Facebook, Twitter, YouTube, Press

**Proactive Visits**

**Reactive Visits**

**Educational materials**
- Good Kitchen practices guide
- Fat traps, sink strainers etc

**Access to websites**

**Regular mail drops**

**Key messages**

**Advice on multiple issues**

**Social Media**
- Facebook, Twitter, YouTube, Press

**Educational materials**
- Fat traps, sink strainers etc

**Seasonal messages**
Legislation

Clean Neighbourhoods and Environment Act (Northern Ireland) 2011
The law relating to statutory nuisance is contained within Part 7 of the Clean Neighbourhoods and Environment Act (NI) 2011.

Pollution Control and Local Government (Northern Ireland) Order 1978
Article 65 of the Pollution Control and Local Government (Northern Ireland) Order 1978 contains provision for defective premises.

Animal By-Products Regulations (Northern Ireland) 2003
From 1 November 2004 waste cooking oil from catering premises can no longer be used as an ingredient in animal feed.

Food Hygiene Regulations (Northern Ireland) 2006
Local authorities are authorised to inspect premises under the Food Hygiene Regulations (Northern Ireland) 2006.

Waste and Contaminated Land (Northern Ireland) Order 1997
The legislation refers to disposal of waste and governs the disposal of fats, oils and grease which are to be collected in a suitable container and disposed of by a licensed waster contractor.

Food Waste Regulations (Northern Ireland) 2015
The Food Waste Regulations require the separate collection of non-domestic food waste.

Water and Sewerage Services (Northern Ireland) Order 2006
Under Article 168 Water and Sewerage Services (Northern Ireland) Order 2006
Water Industry & Stakeholders – Working Together
Something needs to change

Unwanted

CALLS

COSTS

ENVIRONMENT