

# NO-DES

## Water Mains Cleaning



...with no water Loss



**SMART TECHNOLOGIES**  
*DELIVERING*  
**SMARTER SOLUTIONS**  
*FOR MANAGING ASSETS*

## NO-DES Water Mains Cleaning

A better and more effective way of cleaning water pipes with virtually no water loss.

**NO-DES** is an innovative and effective way of cleaning water mains with virtually no loss of water. It delivers a cost effective solution to traditional methods of cleaning water mains. This technology increases customer confidence, reduces operational costs and conserves water and environmental discharge.

Traditionally, water pipes have been flushed by opening fire hydrants and letting water discharge out into the street. The **NO-DES** system saves this water by attaching to two fire hydrants and creating a temporary above ground loop through which the water is circulated, cleaned and returned to the pipe. The **NO-DES** machine flushes the water between the hydrants at a velocity that intentionally stirs up the sediments, and then removes them in the purpose built **NO-DES** filters.

### THE NO-DES METHOD IS SIMPLE

1

#### EASY SET UP

A **NO-DES** truck with a massive 2 vessel filtering system pulls up between two fire hydrants in an area where water quality problems are being experienced.

2

#### CONNECT

A heavy-duty hose is connected from one fire hydrant to the **NO-DES** filtering system inlet point. A second hose is then connected to a second fire hydrant from the **NO-DES** outlet point.

3

#### CREATE "LOOP"

Both fire hydrants are opened, filling the hoses and filters, creating a temporary above ground loop in the water distribution system.





## THE NO-DES SYSTEM

The **NO-DES** System is a unique and extremely effective method of removing corrosion and disinfection by-products from water mains.

The **NO-DES** approach flushes water through its advanced filter system to clean the water, quickly and efficiently. It's extremely portable and can be set up on site within minutes of arriving.



## WHY CHOOSE NO-DES?

- It requires no shutdown of the water supply.
- Is a no disruption, efficient, effective way of cleaning water pipes.
- Minimal disturbance to customers supply (unlike conventional flushing), as **NO-DES** does NOT require the pipe to be de-pressurised or supply to be turned off.
- Is self-contained, with no water flushed down the street.
- It works using very high velocities.
- It filters and re-circulates the water inside the pipes (down to one-micron absolute – approx. 100 times smaller than the diameter of a human hair).
- Is a controlled flow providing for reduced damage – no water hammer or pipe / lining erosion.
- conserves two vital natural resources — water and the energy it took to produce and pump it
- Water quality is not compromised with the addition of Chlorine back into the supply if required.

4

### CIRCULATE

A large, variable speed pump on the **NO-DES** unit then circulates the water through the loop at very high speed in the opposite direction of the natural flow. This “stirs up” the sediments and biofilms inside the water main.

5

### FILTER & PURIFY

Practically all sediments and biofilms are removed as the water passes through **NO-DES'S** extremely fine 24-chamber filtration system.  
NB. a small amount of chlorine is added during the process.

6

### SHUT DOWN

When the entire section of water main between the hydrants has been flushed clean, the system is shut down, hydrants are closed and hoses removed. The entire process takes only 45 minutes from start to finish.

### Where and why it can be used

- Mains cleansing projects, particularly effective on areas suffering nitrification, chlorine decay or discoloured water.
- Newly installed water mains (chlorinating, flushing, testing)
- Cleaning water mains after leak repairs and contamination events
- Water storage tank cleaning (full or empty)
- Can also be used as a booster or transfer pump to augment supplies.

### Benefits and advantages

- No loss of water during process
- No environmental discharge
- No customer interruptions
- Clear and transparent data on improvements to system
- Highly mobile and easy to set up.

## NEED US TO DIAGNOSE YOUR PIPELINE?

For all enquiries please contact

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