

Case Study:

Flushing Systems—VacFlush

Site: Barrow
End Client: United Utilities
Contractor: KMI

Contract Start Date: 2009
Completion Date: 2009



Image courtesy of KMI

The tank and central flushing column during construction



The tank and central column after completion. Note the roof beams are supported on the central column.

Description:

United Utilities (UU) have numerous Vacflush™ tank cleaning systems installed on their storm tanks and the system at Barrow is a good example. The system uses storm water to flush the tank, as water enters the storm tank the vacuum pump starts and draws a head of water into the central flushing column under a vacuum and is held there. Once the tank has emptied the vacuum is released and the tank is flushed radially, washing the accumulated sediment into the peripheral channel.

Benefits:

- No confined space entry required
- Utilises storm water to flush
- No separate water supply required
- Full flush even after minor spills
- Low power consumption
- Minimal maintenance

Project Data:

Type of Tank:	Deep shaft circular
Diameter:	23m
Depth:	26m
Gradient:	1%

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