

SANIVAR



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Client Anglian Water
Contractor Public Sewer Services
Project Stansfield Rising Main
Completion October 2019

OVERVIEW

Working with Public Sewer Services, Anglian Water's IMR Water Recycling partner, Sanivar UK have recently completed a project to refurbish a pumped effluent pipeline at Stansfield Village in Essex.

The project involved the restoration of a 100mm rising main, part of which was installed under a bridge crossing, adjacent to a pumping station. The existing PVC rising main suffered a history of bursts, and a recent leak had caused effluence to leak through the bridge decking and into a neighbouring water course.

Without refurbishment, the PVC pipe posed a significant risk of pollution to the water course and adjacent amenity assets, in an area popular with walkers, Anglian Water sought a 'no dig' solution to minimise customer disruption and to avoid the prohibitive costs of accessing and replacing the main through traditional civil works.

CHALLENGES

The project posed three significant challenges:

- Isolating the PVC pipeline and providing a temporary over-pumping solution adjacent to the pumping station
- Protecting the environment from pollution during construction, and safeguarding throughout
- Developing a solution that minimised customer impact and mitigated disruption to local traffic and walkers

Working with Public Sewer Services, Sanivar proposed the use of their innovative SaniTube pressure pipe liner to re-line a 25 metre section of PVC pipe under the bridge and anchor the lining to the host pipe with a bespoke SaniGrip fitting. This was to facilitate a connection to the existing pipework on either side of the bridge crossing.

OUTCOME

Working with Public Sewer Services and Anglian Water, the SaniTube liner was installed within a two day working window defined by traffic management and tankering schedules.

The PVC rising main was exposed on either side of the bridge crossing and the pipe was surveyed by a CCTV camera. Cleaned by high pressure jetting and 'pigging', the SaniTube liner was winched through the host pipe and the end seals were inserted prior to inflating with compressed air. SaniGrip Couplings were then used to anchor the liner to the host pipe in both launch and reception pits. Sanivar UK were on hand throughout the installation to provide specialist support and supervision.

SaniTube provided the only practical solution for this complex project due to :

- Flexibility – provided by the liner's ultra-thin wall construction
- Durability – through a pressure rating in excess of 10 bar
- Efficiency – rapid installation enabled by lack of curing or wetting-out processes
- Adaptability – being able to accommodate various pipe conditions
- Sanivar's commitment to collaborative working and on-site support



TESTIMONIAL



“ I was really impressed with the product and how easy the whole installation process was.

It was a pleasure to work with Saniivar, they really know their stuff and I look forward to our next job with them . Overall, I’m really impressed. ”

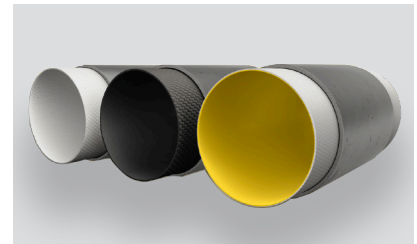
Frank Sweeney- Field Performance Manager, Public Sewer Services

DATA SHEET

SaniTube®

SaniTube®, the next generation CIPP pressure linings is a well proven technology that is ideally suited for the trenchless rehabilitation of pipelines across multiple sectors including water, gas, energy and industry.

Most pipe materials can be accommodated including cast-iron, ductile iron, steel, PVC and asbestos-cement pipes in diameters from DN25 to DN400.



KEY BENEFITS OF SANITUBE®

- A lining solution for pressurised pipelines (uti 16 bar)
- Can be used to navigate bends of up to 45 degrees
- 100% chemical-free installation process (no adhesives, resins such as epoxy, etc.)
- Minimises customer disruption through rapid installation
- A ‘no dig’ solution that mitigates health and safety risks associated with civil works
- Durable lining solution with a 50-year product guarantee
- Cost efficiency with install lengths up to 700m
- Regulation 31 for potable water use (pending)

TECHNICAL SPECIFICATIONS

Temperature	Water, petrol, oil and heating	Up to 70°C / Gas: up to 80°C
Material	Liner	Circular-woven hose made from 100% polyester fibres
	Coating	Extruded, thermoplastic polyurethane and polyethylene

TECHNICAL CHARACTERISTICS

Tensile strength, longitudinal	1000-1500 N/cm	Wall thickness	2.6 - 3.5 mm
Tensile strength, radial	800-2000 N/cm	Diameter	80 - 400 mm
Elongation at break, longitudinal	20-25%	Max. installation length	up to 700 m
Elongation at break, radial	40-50%		

Exact characteristics dependant on pipe material and diameters

