



Bay Estate Rising Main

15/01/2026

Overview

- **What are we doing** – Slip lining 550 meters of the rising main
- **When is the work being planned for** – May 2026
- **How long will it take** - Expected 15 days
- **How many tankers** – Total 13 dry weather, maximum 23 in wet weather
- **Where are they tankering from and discharging** - Tankering from Bay Estate WPS & Craigwell WPS. Disposing at Carlton Avenue WPS, West Park WPS and Bognor Main WPS
- **Where are the dig holes located** - 3 x dig holes located along Manor Way (confirmation when work starts)
- **Where will the traffic management be set up** - 3 way lights at Bay Estate WPS. Basic TM along Manor Way

Map of section to be Slip Lined

Red circles show dig locations



SCOPE OF WORK AND REASON FOR SELECTION

Project Scope

Slip-lining 550 meters of the rising main to rehabilitate a vulnerable pipeline section.

Reason for Selection

Chosen section suffered five bursts indicating structural weakness and risk of future failures.

Project Benefits

Restores reliability, extends pipeline life, reduces maintenance costs and mitigates future risks.

WHAT IS SLIP-LINING?

Trenchless Rehabilitation Technique

Slip-lining inserts a smaller pipe inside an existing one, avoiding extensive excavation and disruption.

Material and Installation

The liner is usually HDPE, butt-fusion welded into long strings before being inserted into the old pipe.

Structural Support and Grouting

After installation, the space between pipes is grouted to stabilize and prevent liner movement.

Advantages in Sensitive Areas

Slip-lining is ideal for urban or sensitive areas, minimizing environmental impact and costs.

TANKERING REQUIREMENTS AND LOCATIONS



Tanker Quantity by Weather

Dry weather requires 13 tankers, while wet weather increases demand to 23 tankers for effective flow management.

Primary Tankering Locations

Bay Estate WPS handles up to 11 tankers in dry and 19 in wet conditions; Craigwell WPS manages 2 to 4 tankers accordingly.

Discharge and Supervision

All tankers discharge at Carlton Avenue WPS West Park WPS and Bognor Main WPS (only 2 used in dry weather). Activities will be monitored by full-time supervisors ensuring safety and efficiency.

EXPECTED DURATION

Estimated Duration

Slip-lining works are expected to last up to 15 days under worst-case scenarios including unforeseen challenges.

Potential Challenges

Unexpected ground conditions and technical issues may extend the project duration but are accounted for in planning.

Scheduling and Risk Management

Accurate scheduling and continuous monitoring help minimize disruption and mitigate risks effectively. One of the key drivers for carrying out the work in May

WHEN AND WHY THE WORK IS SCHEDULED



Optimal Weather Conditions

Scheduling work in dry weather reduces groundwater problems, making excavation safer and more predictable.

Contractor Availability

Contractor availability is higher in May, avoiding busy winter months filled with emergency works.

Reduced Operational Complexity

Fewer tankers are needed during dry conditions, minimizing operational complexity and community disruption.

Improved Safety and Efficiency

Dry month scheduling enhances worker safety and ensures better timeline control for efficient project delivery.

TRAFFIC MANAGEMENT AND EXCAVATION POINTS

Traffic Control Measures

Three-way temporary traffic lights will be installed to maintain safety and reduce disruption during construction. Located at Bay Estate WPS & potentially Craigwell WPS.

Flexible Traffic Management

Additional traffic control measures will be implemented as needed, Traffic management will also be used along Manor Way at each dig site, based on site progress and conditions.

Excavation Points Location

Excavation points along Manor Road will serve as launch and retrieval sites for slip-lining operations.