



Epsom Road Main Sewer Upgrade Project Project introduction – October 2021

Melbourne Water is committed to enhancing life and liveability in your area. To maintain our world-class sewerage system, in 2022 we will be upgrading sections of the Epsom Road Main Sewer (EPS).

The EPS transfers sewage flows from Melbourne's inner western suburbs to the North Yarra Main (NYM) to the Western Treatment Plant. It is approximately 5.1 km in length and extends north of Lloyd Street, Kensington along Elizabeth Street and Macaulay Road and under Epsom Road Ascot Vale.

Routine maintenance inspections found that rehabilitation work is needed to keep this vital asset functioning and provide a safe and reliable service to the community for at least another 50 years.

This sewer is part of a 400 kilometre network of underground pipes and tunnels, safely transferring over 320,000 million litres of sewage to our treatment plants each year. Some sections of this world-class sewerage system were built more than a century ago and are coming to the end of its working life.

What are we doing?

We will be upgrading approximately 1.6 km of the EPS, under Epsom Road between Union Road and Smithfield Road, Macaulay Road between Kensington Road and the train line and down Elizabeth Street into Arden Street finishing at Lloyd Street.

Sewer rehabilitation works are a non-dig rehabilitation solution with relining being carried out within the existing asset. This means there is no need to dig large trenches to install a new sewer line.



Spiral Wound-In-Place-Liner



Bypass and community access

Epsom Road Main Sewer Upgrade Project

PROJECT OVERVIEW



MAP NOT TO SCALE



CIPP relining process set up



Traffic changes

NEXT STEPS



Stages of sewer relining project

There are a number of steps in the relining process to ensure it's successful, including:

STEP 1 - Preworks

The sewer lines and maintenance holes will be scanned to support the order for the liner. Furniture including ladders in the maintenance hole will be removed.

1

STEP 2 - Maintenance hole modifications

Below ground the top for the maintenance hole is a collar which is narrow. The collar will be removed to create more space for access into the sewer for the liner and personnel.

2

STEP 3 - Bypass sewer network installation

During the relining process there can not be sewer flows in the main. Therefore, a bypass sewer network will be temporarily installed with above ground pipes, pumps and generators to ensure the sewer system is not interrupted.

3

STEP 4 - Cleaning

A significant clean of the sewer is undertaken before the relining process begins. It is possible cleaning is required during the relining activity to ensure a quality finish.

4

STEP 5 - Relining

The EPS is a brick ovoid sewer and therefore perfect for a relining method called Cured in Place Pipe (CIPP). CIPP relining involves running a liner from an existing upstream maintenance hole to one located downstream. The liner is then expanded to match the size of the sewer pipe and cured using UV light. The liner, once hardened, will strengthen the sewer, allowing it to provide many more years of service. This relining approach is undertaken over day and night shifts as once the work and curing process starts it cannot stop.

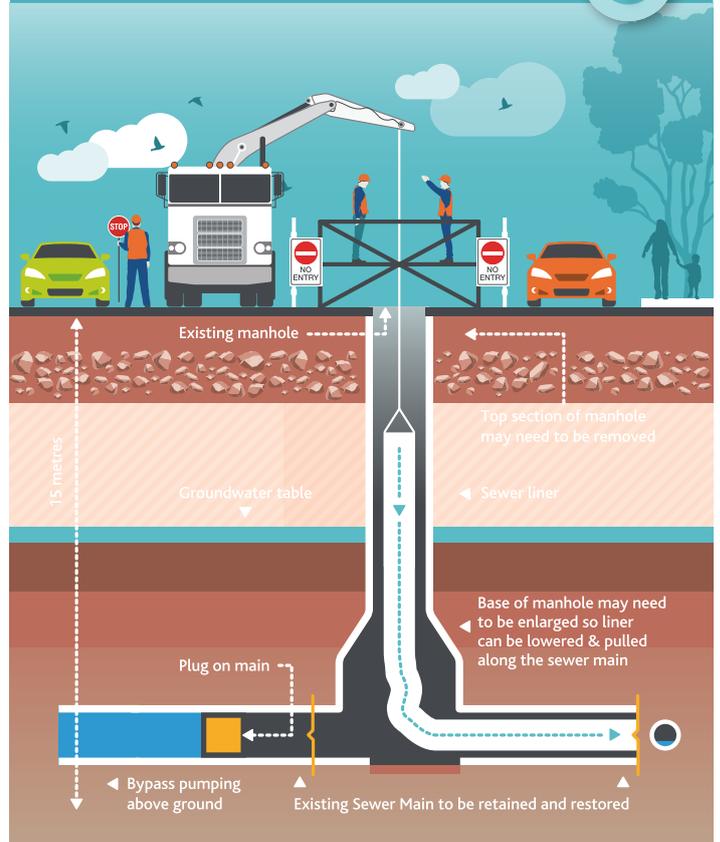
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STEP 6 - Reinstatement

We'll reinstate road and concrete surfaces impacted by our works to pre-existing condition or similar condition.

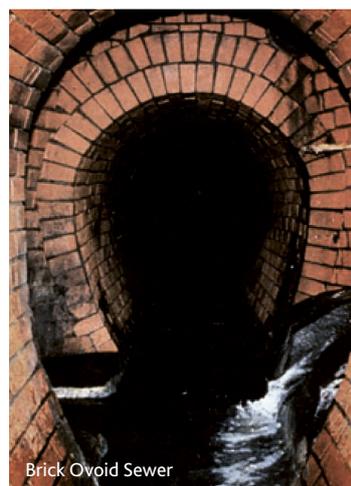
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CURED IN PLACE PIPE (CIPP) PROCESS



Cured in Place Pipe (CIPP) will be used to reline the ovoid sections of the sewer. This involves running a liner from an existing upstream maintenance hole to one located downstream. The liner is then expanded to match the size of the sewer pipe and cured using UV light. The liner, once hardened, will strengthen the sewer, allowing it to provide many more years of service.

This approach is typically started at night and requires 24-hour continuous works to complete.



Brick Ovoid Sewer



Bypass and community access

What to expect

Specific information about construction will be provided in the coming months. Prior to and during construction, we'll provide information in several ways:

- bulletins/newsletters in the surrounding area
- door knocking directly impacted businesses and residents
- social media
- web page updates

As a guide, we have listed some potential impacts that you may notice during construction.

- **Working hours:** When work can be maintained to day shift working hours will be 7am to 6pm Monday to Friday and 7am to 1pm Saturday. Some activities including the relining works will require work outside these hours. Notification will be provided.
- **Night works:** will be undertaken for sections of the bypass network installation when traffic changes are required. Additionally, the relining works will operate day and night (24/7) as the process cannot stop once it has commenced.

- **Noise** will be generated from the operation of machinery including large trucks that clean the sewers and suck out the content removed during the process. Generators, cranes and noise from the work crew is also expected. Mitigation measures for noise will be implemented where possible.
- **Some odour** is expected when carrying out the works due to harmless gases escaping maintenance holes when opened.
- **There will be temporary changes to traffic conditions**, including lane closures, road closures, parking restrictions and driveway closures for some properties. Detours will be implemented when required. We encourage you to be careful around work areas and observe new signs.
- **There is no vegetation removal expected.** In some cases, we may need to undertake trimming with the appropriate approvals.

CHANGES IN WATER AND SEWERAGE SERVICES

We do not anticipate any impacts on your water or sewerage services during the works. If you experience an issue with your sewerage service, contact your retail water company Greater Western Water on 13 44 99.



KEEPING YOU INFORMED

Further information will be provided throughout the project. If you would like more information please contact us on:

- 1800 027 517
- eps@melbournewater.com.au
- www.melbournewater.com.au/eps

Scan the QR code below for current project information



To access the TTY and Interpreter Services: TTY 133 677
Interpreter: 131 450

