



Dealing with the legacy of London's combined sewers

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Draining London

150 years in the making...



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Water companies illegally dumping sewage in England and Wales' rivers

12 April



Water companies have been illegally dumping untreated sewage into rivers in England and Wales, an investigation by BBC Panorama has found.

The screenshot shows the BBC News website interface. The main headline is "Water companies illegally dumping sewage in England and Wales' rivers", dated 12 April. Below the headline is a photograph of a pipe discharging untreated sewage into a river, with a large amount of brown, sludgy material floating in the water. The caption below the photo states: "Water companies have been illegally dumping untreated sewage into rivers in England and Wales, an investigation by BBC Panorama has found."

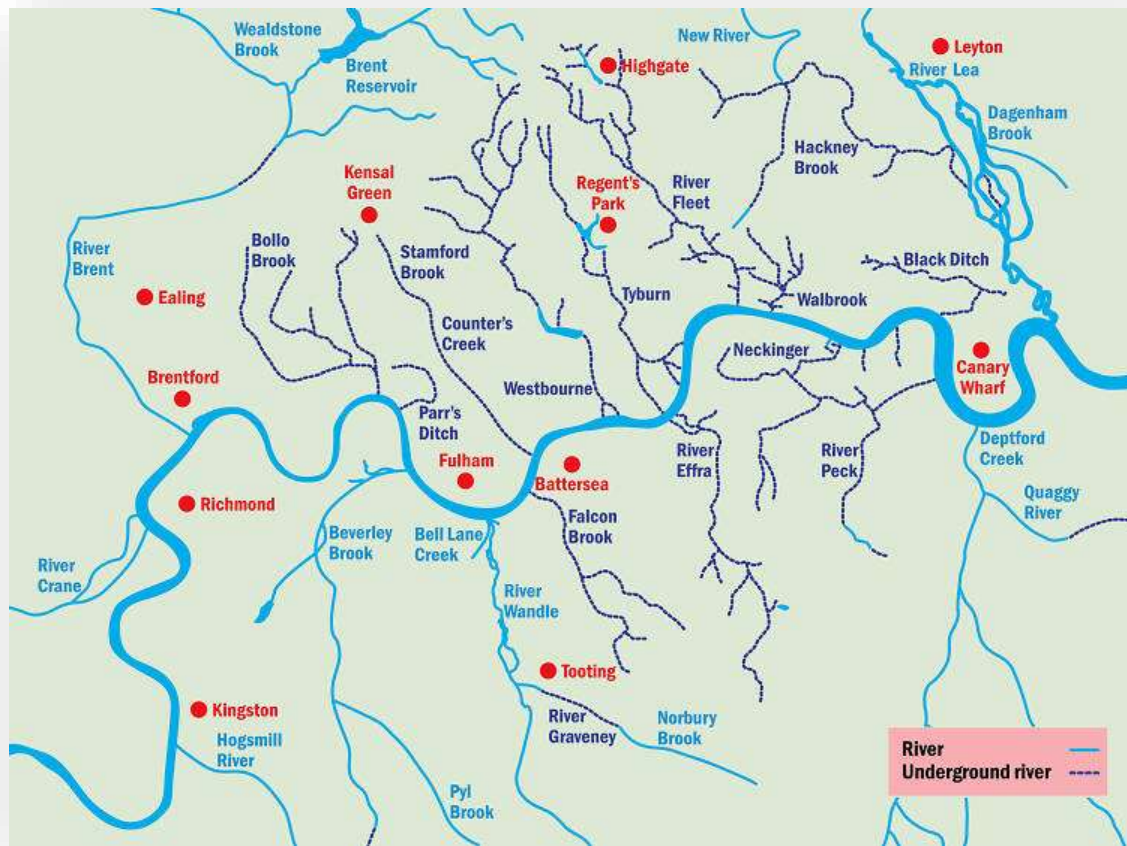
Polluted Rivers

Cleaning up London...

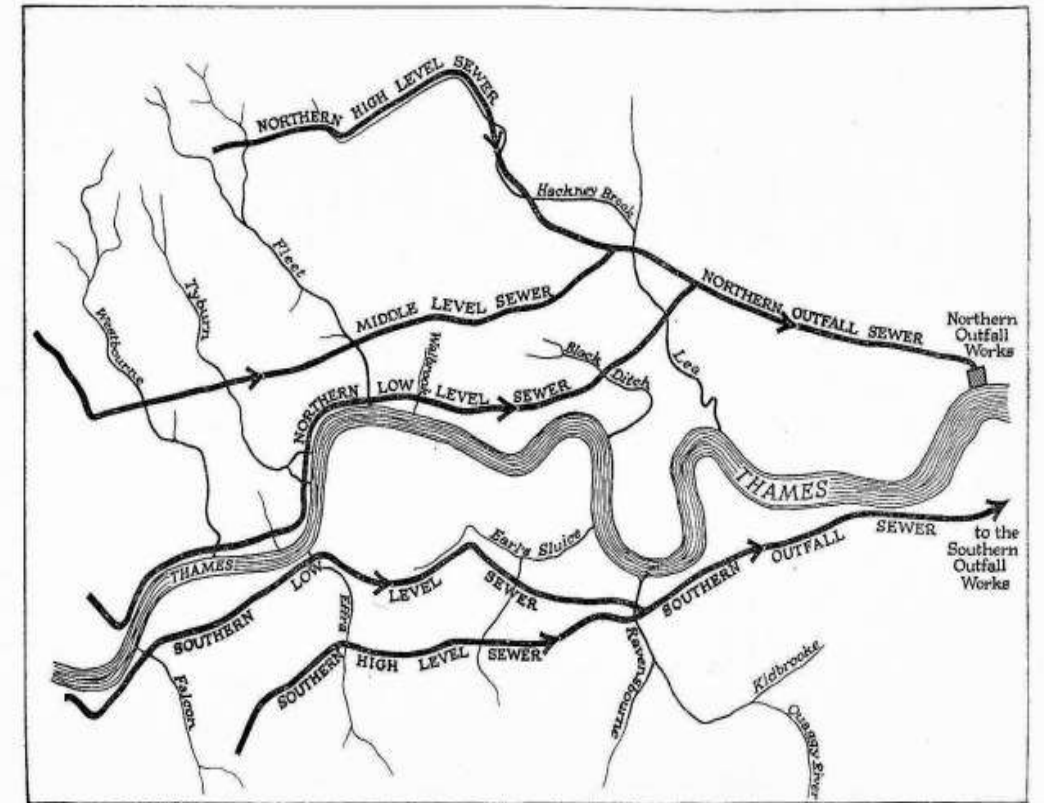


Rivers to Sewers

Polluted rivers to sewers to treatment



Rivers to sewers

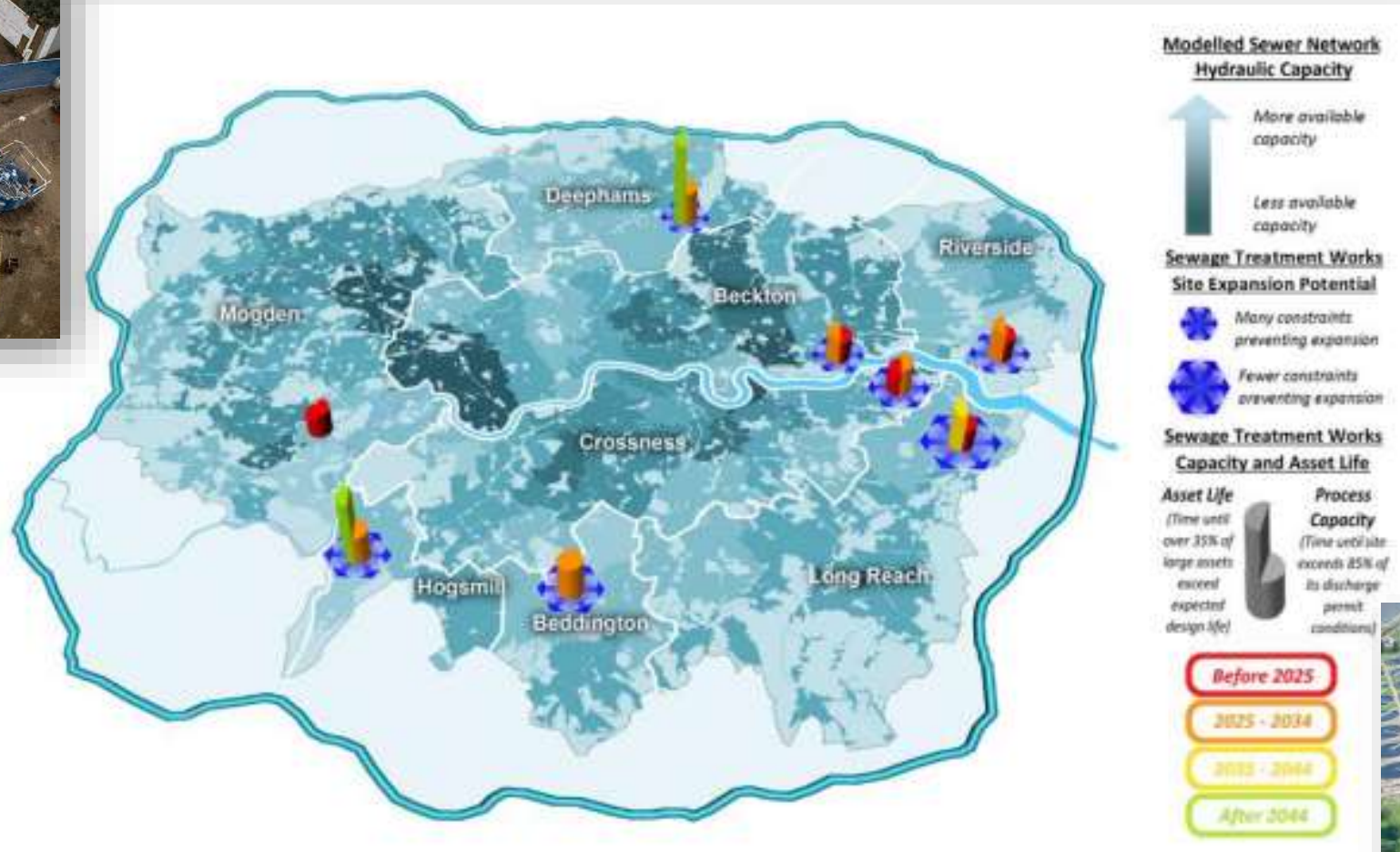


MAP 5. Bazalgette's plan for interceptor sewers (1858).

Interceptor sewers

Current system challenges

Collection & Treatment - Space



London 2020

System performance



Extensive urbanisation



Major flooding

Objectives for the future

London 2100?

1. Separation of waste and surface water.
2. Healthy Environment & Rivers
3. Design for exceedance as well as containment.
4. Future proof to Climate change

Approaches:

- Green vs Grey?
- Water resource?
- Community input?
- Partnership / Collaboration

London sewers



Plan for intercepting sewers (1858).

Thank You