



CAPITAL  
**AMBITION**



# Improvements To Roath Park Dam Community Webinar Tuesday 12<sup>th</sup> October 2021, 6pm



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# What we will cover today

- History of the Dam
- Maintenance of the Dam
- Adapting to Climate Change
- Exploring Maintenance Options
- Timeframe
- Community Information Events



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# Roath Park Dam - History

- Situated in the heart of Cardiff in one of the city's best-loved parks.
- Roath Park Lake, as it is known, is actually a reservoir – fed by the Nant Fawr stream.
- The promenade next to the lighthouse is the dam itself.
- The Dam is a Listed Grade II Building of Architectural or Historic Interest.



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# Maintenance of Roath Park Dam

- Cardiff Council is responsible for the dam's maintenance.
- The Council is required for regular inspections of the dam under the Reservoirs Act 1975 to be undertaken by qualified engineers.
- The spillway (the waterfall next to the cafe) would not be large enough to withstand a theoretical extreme flooding event and additional maintenance work is therefore required.
- Maintenance to Roath Park Dam is essential to ensure it is effective now and for future generations.



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# Adapting to Climate Change

- Climate change will have a significant impact on flooding in Wales.
- More frequent and higher intensity storms are likely and the Council needs to futureproof the dam and associated infrastructure.
- Working with Natural Resources Wales to explore if the works to the dam could potentially reduce the works required to the Roath Brook Flood Risk Management scheme further downstream.



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# Key Considerations for Maintenance Works

- Site of Importance for Nature Conservation (SINC)
  - Roath Park Lake & Roath Brook
  - Main River – Roath Brook
  - WFD Waterbody – Roath Brook
- Registered Parks & Gardens – Roath Park
- Conservation Area – Roath Park Lake and Gardens Conservation Area
- Listed Buildings – Grade II Listed Structures:
  - Roath Lake Dam, Scott Memorial, 3 footbridges downstream of the dam



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# Exploring Maintenance Options

- Maintenance works will be required to upsize the spillway and to protect the dam embankment.
- Design studies are underway to determine the extent of the spillway works.
- A ground investigation will soon be required to refine the options for protecting the dam embankment.
- The ground investigation will have an impact on public access to the area around the dam, including the footpath across the dam and the adjacent children's play area.



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# Exploring Maintenance Options



# Ground Investigation Works

- Ground investigation works will be carried out in November 2021.
- This will involve holes of different size and shape being dug in the dam and alongside the spillway, so that the makeup of the ground can be studied.
- Some holes will be dug by hand and others by specialist machinery.
- The dug-out material will be analysed at a laboratory and the results used to develop the design.
- The holes will be filled back in, and the surface made to look as it is now.



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# Park Closures

## KEY:

### Indicative exploratory hole location:

-  Trial pit or borehole
-  Trial trench
-  Indicative compound location

### Anticipated closure timescale:

-  1 - 2 days at a time
-  2 - 3 weeks (for the whole investigation period)



### Notes:

The extents of the closures are shown indicatively.

Duration of closures is dependant on ground conditions and constraints encountered. For example, encountering harder ground than anticipated or unexpected services could lead to longer closures being required.

# Provisional Timeline



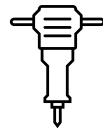
Jun 21 –  
Nov 21

Surveys &  
outline  
design



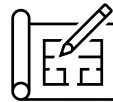
Aug 21 –  
Nov 21

Community &  
Stakeholder  
engagement



Nov 21

Ground  
Investigation



Autumn 21 –  
Spring 22

Detailed  
Design



Spring 22 –  
Summer 22

Further  
community &  
stakeholder  
engagement



Summer 22 –  
Autumn 22

Planning  
Determination



Autumn 22–  
Spring 24

Construction



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# Community Information Events

## Drop in events in Roath Park -

- Saturday 23 October 9:00am-2:00pm
- Tuesday 26 October 9:30am-3:30pm

Located in exhibition caravan on the promenade next to the spillway and rangers hut.



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# Promotion of the Project

- Newsletter issued to
  - 4831 households
  - 59 businesses
  - Identified stakeholders
- Press release
- Social media campaign
- Posters in the park

## Core consultation zone



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# Contact

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# Questions ?



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