



Gladhouse Reservoir planned improvement work

Community news regarding planned work at Gladhouse

In November 2021 we are starting preparation work at Gladhouse Reservoir. Please read the following important information about this work.

Background

Gladhouse Reservoir was built in 1879 and provides raw water to the Rosebery Water Treatment Works which serves approx. 150,000 Scottish Water customers.

During a 10year inspection of the reservoir a number safety improvements were identified as needing attention. After a number of years of review, design and planning Scottish Water are now starting with the essential work to deliver these improvements.

5 key improvement items for the reservoir structure and operation:

1. Repair and upgrade the spillway channel, including replacing and raising road bridge, to accommodate future flood events.
2. Improve the drawdown capacity of the reservoir. This allows us to reduce the level of the reservoir quickly in the event of an emergency.
3. Install automated valves on the tower outlets to assist operation.
4. Provide safe access to the upstream face of the dam for Scottish Water staff.
5. Install apparatus to safely gauge the flow at the outlet of the tower culvert.

Site Preparation work (approx. 5months)

We will be starting on site in November 2021.

Following feedback from the local community raising concerns about the impact of construction vehicles on the roads around the reservoir, our project team and contractors (Georgie Leslie Ltd) have agreements in place to utilise Gladhouse Mains Road for the duration of this work. The road will be used for site traffic only and remain gated to the public

They will be carrying out road upgrades, installing temporary passing places and a site compound in the coming weeks.. This should have minimal impact on local residents and roads.

Site preparation works include:

- Upgrade of road through Gladhouse Mains Farm
- Set up of site compound area
- Site investigation to the Rosebery WTW raw water pipe to define line, level and location for future emergency drawdown pipe
- Tree removal within SW owned land for future emergency drawdown pipe
- Site investigation to spillway – dig boreholes either side of spillway and road

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- Works to outlet culvert – scaffold to remove vegetation, repair masonry, etc.
- Electrical design for improved valve operation across the site
- Spillway bridge design review

Proposed project timeline

Site Investigation /Preparation work

- Planned to commence November 2021
- On site for approx. 5 months duration
- Investigatory works to include boreholes, trial pits and tree clearance

April 21 – Early 2022

- Further detailed design
- Planning application lodged with Midlothian Council
- Community updates and engagement

Early 2023 (tbc)

- Main construction work subject to planning approval and other permissions
- Approximately 18months construction of spillway upgrades, new road bridge and new emergency draw down pipe.

Questions and answers

Q. Will road closures be required for the work?

A. We are utilising Gladhouse Mains Road to minimise the impact on residents. For the site preparation work some temporary road closures will be required to allow George Leslie to carry out boreholes either side of the existing spillway bridge. Currently scheduled for maximum of 8 days – 18th – 27th Jan 2022 (locals will be informed in advance).

In addition to this there will be further road closures for the main construction work in 2023.

Q. What are your working days/hours for the site preparation work?

A. We will be working Mon-Fri within 8am – 6pm

Q. Will the Victorian road bridge (over the spillway) be upgraded to cater for modern transportation ie to the Current National Weight limit 40/44 tonnes?

A. Yes, this is the plan. Subject to detailed design and planning approval.

Q. Will the pedestrian walkway along the top of the dam extent to a footbridge over the spillway?

A. There is currently no proposal to provide a separate pedestrian access over the spillway.

Q. Will the reservoir be drained to facilitate the project?

A. No

Q. What will the top water level be on completion of the project?

A. The reservoir will revert back to top water level once spillway, bridge and other reservoir safety aspects are complete.

Q. Do you intend to replant trees that you remove?

A. We can't replant in the area we are removing trees from, however we are open to looking at alternative areas for replanting.

Q. Could timber from trees be available for locals?

A. Yes, we are happy to accommodate this where possible.

Communications and engagement

We will continue to provide further updates on the work as it progresses, along with other communications about plans in relation to visitor management at the reservoir.

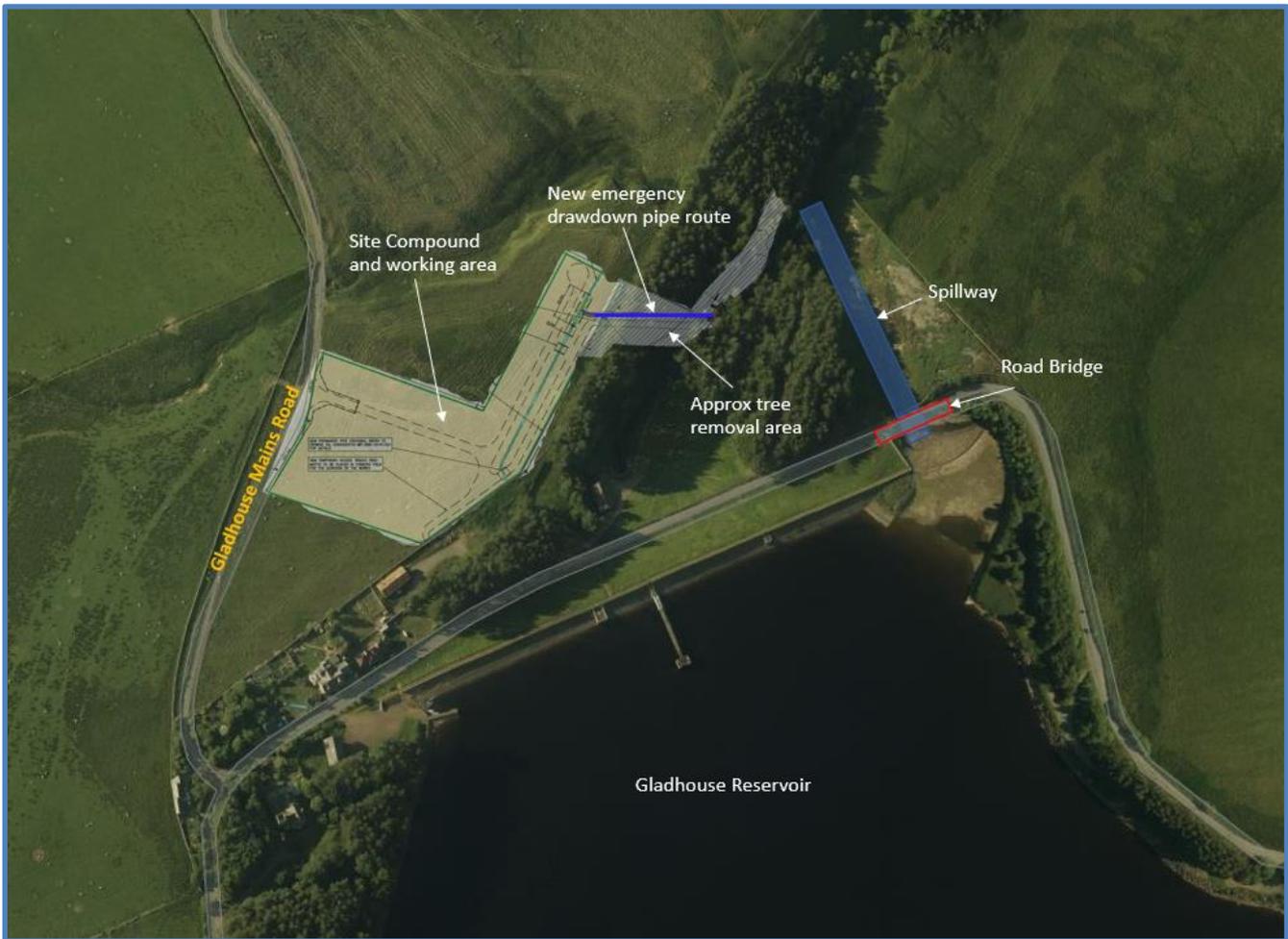
Information will be available online at www.scottishwater.co.uk/gladhouse

In advance of lodging a planning application, we will host online and in person meetings to share our plans with the local community and stakeholders.

Scottish Water attend a regular Gladhouse Reservoir stakeholder meeting and will be sharing and discussing all plans with key local stakeholder representatives at this forum.

We have also recently completed a Gladhouse Reservoir visitor survey and will be sharing the feedback from this later this year and will be helping shape our plans for 2022.

Gladhouse site plan



Road map

Route in red shows the road to be used for construction traffic. We will be making improvements to the road (filling in pot-holes) as well as putting in some temporary passing places.

The road will only be used for construction traffic and will be signposted as such.

