

### When was the Tidal Constructed and why?

The Tidal Weir was constructed in 1901 to maintain water levels in the upstream section of the River Clyde from Glasgow Green to Carmyle.

It comprises of three barriers (Gates) which can be raised and lowered depending on tide levels and river levels (affected by rainfall) with the main purpose of keeping the river at a steady level upstream of the weir. This is historical as steady water levels were required to service industry in the first half of the 20<sup>th</sup> century.

### What happened to cause the damage? Why did the riverbanks \footway fails? Did the weir failure cause the subsidence?

The Tidal Weir is formed by three gates (barriers) which maintain the level of the water upstream from the weir. A mechanical failure in one of gate mechanisms occurred in the morning of Tuesday 29<sup>th</sup> August 2017. As a result one of the gates could not be closed allowing water to escape and water levels upstream could not be maintained. As a result the river banks above the weir became exposed. Without the supporting pressure from the water some of the banks began to fail along the riverside walkway.

Now that the weir gate is back in place the water above the weir is back to the correct level meaning no further bank movements should occur.

### Was there damage to any private housing should owners be concerned?

Geologists have assessed the bank failures and concluded that all the damage will be contained within the failed areas and will not progress out with the bounds of the footpaths, house owners should not be concerned.

### When will the walkways re-open?

The Council is at presently assessing the damage to the walkways, the main priority is public safety. Over the coming week it is envisaged that sections of the footway which suffered the least damage and have been assessed as safe for use will be re-opened to the public.

### Will events in Glasgow Green be affected?

There is no significant damage to the walkway through Glasgow Green. As all the damage is contained within the riverbank at this location the park is safe to use. Events will not be affected.

### Is the Weir now fixed?

The weir is now operational and river levels can be maintained behind it so no further bank damage is expected to occur. Repairs are required to one of the three gates which form the weir. The repair is being assessed at present and a programme of works developed.

How much is the damage to the riverbanks going to cost to repair?

At present Engineers and Geologists are assessing the worst affected areas of the riverbanks and riverside walkway to prioritise repairs. This work is still underway. It is too early at present to say how much repair works will cost.

Can it happen again? How can we ensure it does not happen again?

The weir is manned 24 hours a day seven days a week. It is inspected every day and maintained by a firm of specialist engineers on a monthly basis, as a minimum. Specialist Engineers are also on 24hr callout to deal with issues which arise in its daily operation. Every effort is being taken by the Council to ensure this does not happen again.

The failure of the weir gate is being thoroughly investigated by the Council to ensure that lessons can be learned from the weir failure and systems can be adapted to minimise the likelihood of it occurring again.

Are the footpaths still in danger of collapse?

All footpaths that are at present opened to the public are safe and not in danger of collapse. Over the coming week after thorough assessments other lengths of the footpaths will reopen these areas will also be safe. Some lengths will remain closed until they are strengthened and repaired