# Kent Catchment Flood Risk Management Scheme Update

## Burneside Ground Investigation works

Environment Agency

March 2021

The Environment Agency has proposed a three phase Flood Risk Management Scheme to better protect residential and business properties from flooding in the Kent catchment. We are starting our detailed design phase for Burneside, Staveley, Ings and the upstream storage locations. Below is a snaptshot of some of these benefits being delivered as part of the three phase scheme;

**1480** Homes better protected

**1151** Businesses employing 6,105 people better protected

**82** Community facilities better protected

**£800k** Secured to deliver NFM in the Kent Catchment

**4000** Trees planted – at least six new trees planted for every one removed

**55** Hectares of habitat & recreational space improved

## Ground investigation surveys

We are continuing to develop our flood scheme designs for Burneside, Staveley, and Ings (Phase Two) and for the upstream storage locations (Phase Three) ahead of our planning permission submission in Winter 2022. To inform our detailed design of the schemes, we need to build our understanding of the ground conditions and underground features by undertaking a number of intrusive surveys. The intrusive surveys can range from hand dug trial pitting to the use of drilling rigs for both shallow and deep exploratory boreholes. These surveys will be undertaken in a number of locations throughout Burneside.

A Ground Investigation survey is a means of determining the condition of the ground. They focus specifically on underground works such as trial pits and boreholes. The ground investigations that we are planning to undertake will help determine:-

- the water table level and water flow;
- the nature of faults, fissures and voids underground;
- ground layer thicknesses and soil properties;
- detailed information about soil and ground samples.

Once the ground investigation surveys are completed, the pits or boreholes are backfilled and reinstated on a like-for-like basis based on the original ground surfacing.

## Ground investigation techniques

There are a number of techniques that can be used for ground investigations, either individually or in combination, depending on site specific circumstances such as the anticipated geology, land use, topography and available access. The investigations can range from hand dug trial pitting to the use of drilling rigs for both shallow and deep exploratory boreholes.

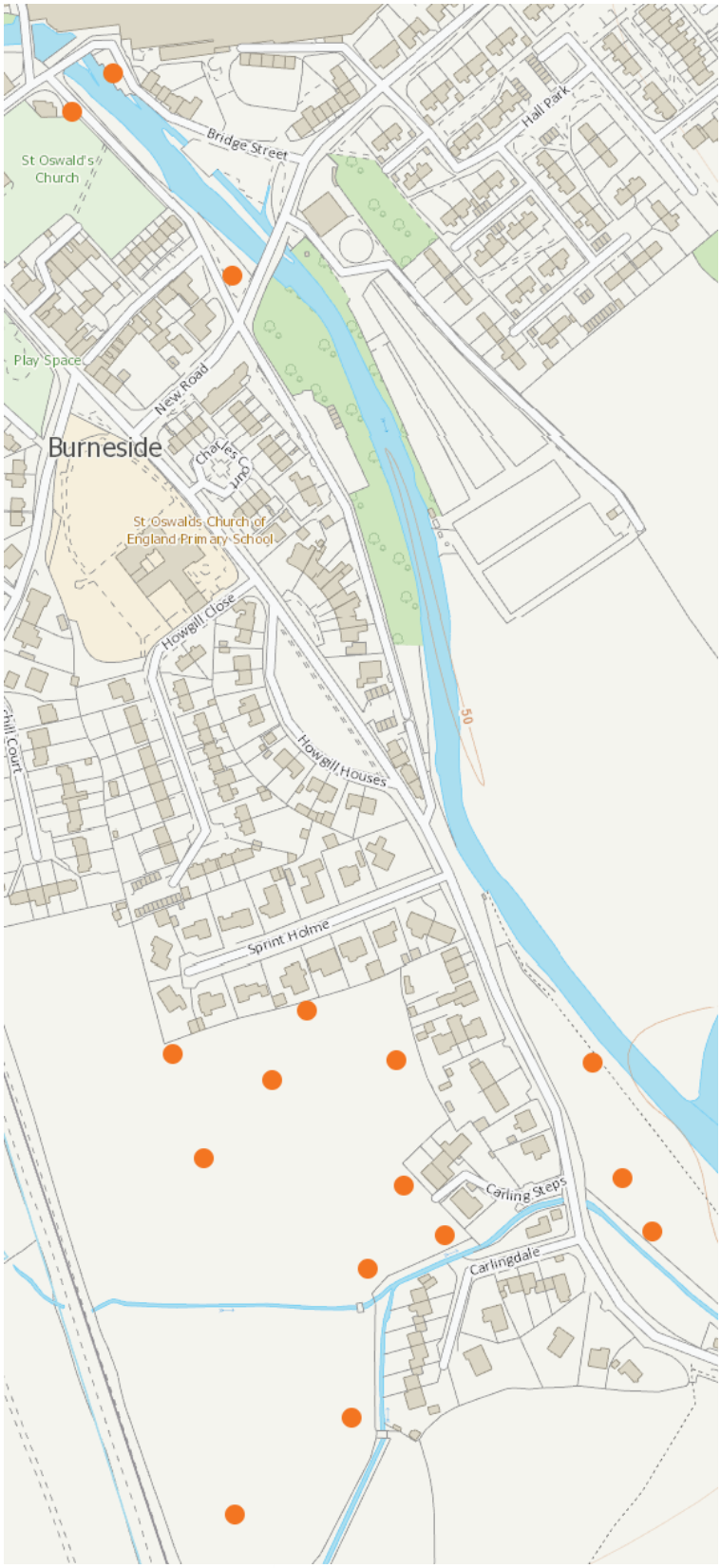
The types of equipment used to undertake these works will depend on what information and data we need. Some will be undertaken using very low level impact techniques such as hand digging, where others will require more heavy and sophisticated machinery as we dig down to greater depths.

Ground investigations are extremely important as they help to minimise risk by better understanding potential geohazards that can be addressed during the design phase of the scheme that may otherwise cause delays and additional cost during the construction phase.

# Where will these investigations be taking place?

Environment Agency

The ground investigation works are planned to start in Burneside in mid March and will continue through until the end of May. We will be working in a number of locations which are identified on the map below, with each exploratory location taking between 1-3 days to complete.




We also anticipate that a temporary road closure will be required at the lane linking Bridge Street with New Road for a few days. Access for residents to properties along Steeles Row will be maintained during this time. We will provide an update on the timing of this road closure to residents in the vicinity before the work starts.

We have informed all landowners where we need to undertake these investigations on land, and residents have been informed where we need access to their gardens or driveways.

**We will be keeping the Flood Hub up to date with information relating to the investigation works and the Flood Risk Management Scheme over the coming weeks and months. For more information visit [www.thefloodhub.co.uk/kendal](www.thefloodhub.co.uk/kendal)**

THE FLOOD HUB

## Contact us

Customer service :03708 506 506
KendalFRMS@environment-agency.gov.uk

## Keep up to date

www.thefloodhub.co.uk/kendal
@EnvAgencyNW

Environment Agency | Jacobs | VolkerStevin