

## Lord's Clough Drain De-silting

Land & Water were approached by the Environment Agency to recut the drainage channel at Lord's Clough, as part of our current Maintenance Framework in the North of England. The project was to allow for greater flood protection to nearly 700 domestic and commercial properties inland of the Humber Estuary which the tidal drain ran in to.

Volume of silt was unknown – material was to be cleared from the central channel using a combination of amphibious excavator and floating cutter suction dredger from a 3rd party contractor. The amphibious excavator section totalled 600 liner metres from a penstock inland to a point where the water exceeded safe working depth for the amphib. The remaining 900m was completed by 3rd party subcontractor under LAWS supervision using a floating cutter suction dredger.

The access point for the amphibious excavator was badly damaged by a slump in the bank, post initial survey and before works on site commenced. This was identified by LAWS and client was informed and an amended methodology was presented to them.

A new access ramp had to be created using imported stone, due to the identified bank slumping. This ramp was created by some minor grading of the already existing soil ramp, then laying of geotextile membrane and 5 inch stone laid on top. The Client wished for the access ramp to remain for future works.

Silt being removed was extremely wet, and we had little room to deposit on the bank, meaning material wanted to slump back into the drain. The operator who was tasked with the amphib works was extremely experienced in this type of works and made a small bund running along the toe of the flood embankments either side of the channel with more firm material, before casting the wetter, more viscous material behind allowing excess water to run off the top of the material and for it to dry.



### Project Particulars

Client: Environment Agency (North Hub)  
April to May 2020

PROJECT  
VALUE:

**£54,000**

