

RAMELTON
FLOOD RELIEF SCHEME



**Comhairle Contae
Dhún na nGall**
Donegal County Council



Tionscadal Éireann
Project Ireland
2040

OPW Oifig na
nOibreacha Poiblí
Office of Public Works

Ramelton Flood Relief Scheme



Newsletter
June 2022

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Latest Overview

This is the fourth newsletter for the Ramelton Flood Relief Scheme. The main activities carried out since the previous newsletter in March 2022 include – include assessment of natural water retention measures, environmental activities, hydraulic modelling, and hydrological assessment.

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Survey Works (Coastal - Hydrometric Survey)

Tidal gauges were installed at locations in Lough Swilly to gather hydrometric survey data for Ramelton. These survey results will assist with the development of an accurate coastal flood risk assessment. Aquafact were the chosen contractor to install the gauges and to provide the survey data.

The tidal gauge consists of a vented PVC pipe which is fixed to the quay wall at Ramelton River Wall (Shore Road). The probe is suspended inside of the PVC pipe using rope attached to a bolt through the pipe.

The project team are currently reviewing the first set of data results received.



Gauge Location 

Location of the tidal gauge setup at Ramelton Quay Wall, Shore Road (above). The smart sensor probe used to gather hydrometric data. (Right)

LevelSCOUT
SUBMERSIBLE LEVEL/ TEMPERATURE
SMART SENSOR






APPLICATIONS

- Site assessments
- Tidal studies
- Environmental monitoring
- Surface water — discharge monitoring
- Aquifer level monitoring
- Aquifer storage & recovery

Environmental Activities

Environmental Constraints

The environmental constraints report for Ramelton Flood Relief Scheme is complete. The report can be viewed at the following link – <https://www.floodinfo.ie/frs/en/ramelton/project-info/environmental-assessment/>

Invasive Species Management & Treatment

Treatment of invasive species in the scheme area is being arranged. This is expected to take place in September.

Appropriate Assessment Screening Report (Ramelton Site Investigation)

The Steering Group have agreed that the Site Investigation (SI) for Ramelton will be carried out at a later date. The scope of the SI will include the existing quay wall and other potential locations of flood relief measures. These works will be subject to appropriate assessment screening.

Specialist Surveys

All specialist environmental sub-consultants have been appointed for Ramelton Flood Relief Scheme. The project team are co-ordinating with the relevant sub-consultants as surveys are due to commence in Summer 2022 for the following specialist areas:

- Air quality
- Aquatic Ecology
- Landscape and Visual
- Wintering Birds
- Noise & Vibration
- Archaeology and Cultural Heritage
- Bat Surveys

Natural Water Retention Measures

An assessment of potential for Natural Water Retention Measures in river catchments to alleviate flood risk is currently underway. The project team will initially develop three types of mapping for 1) Run-Off Reduction, 2) Storage and 3) Land-use / Sediment Management. A full report will follow on from the mapping also.



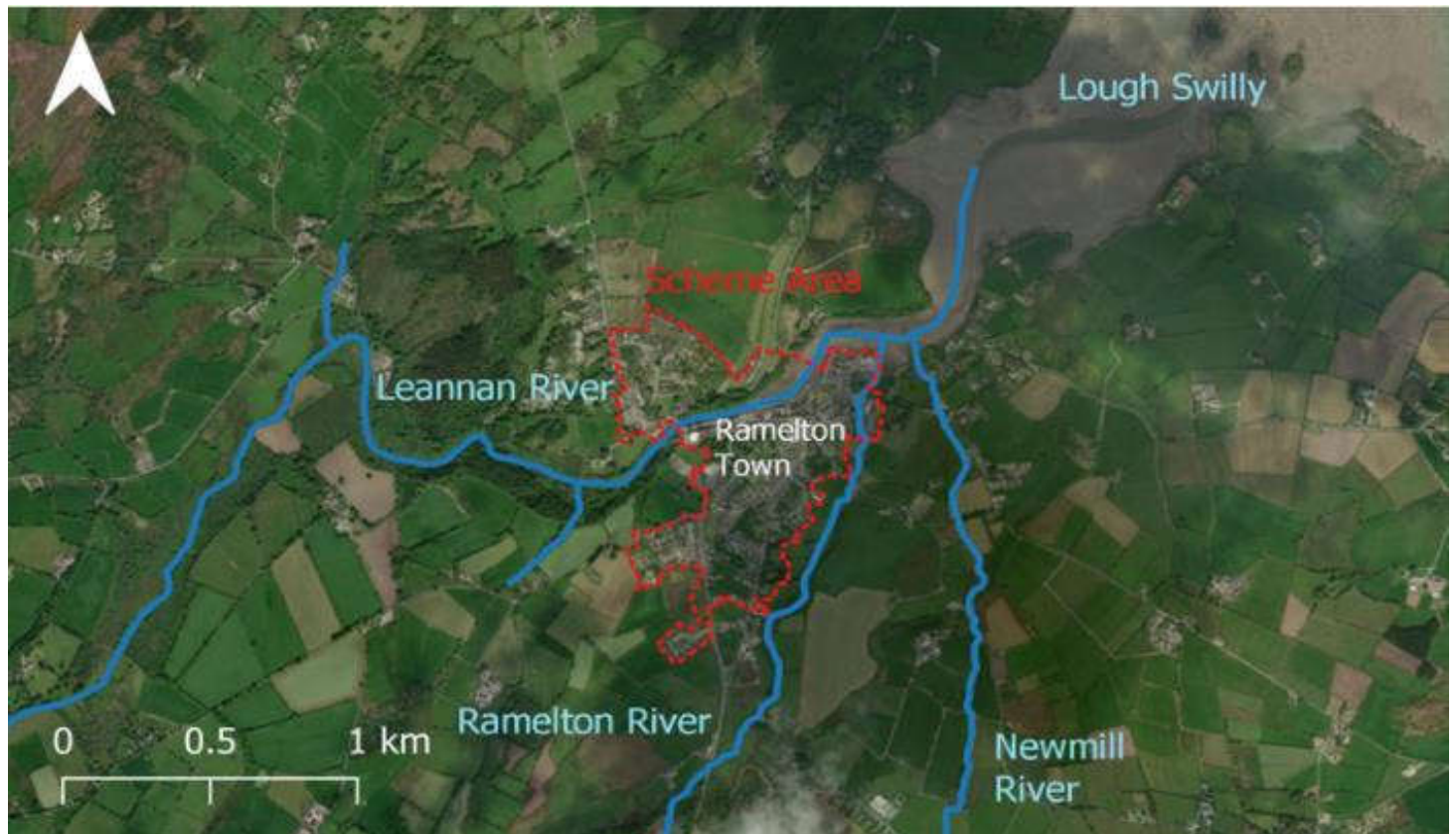
An example of sediment management on Glennagannon River Inishowen (Source Inishowen Rivers Trust)

Hydrological Analysis & Hydraulic Modelling

The draft hydrology report for Ramelton is nearing completion. The report will be issued to Donegal County Council in early July and will include a detailed review of the Claragh Hydrometric Station.

The development of the hydraulic model is ongoing.

The 1d river and network model build has been completed along with the 2D floodplain. The project team are currently testing the model for stability to ensure that the model is performing realistically, before starting the verification and calibration phase.



The Ramelton Scheme Area with key watercourses highlighted.

What's Next?

Over the next few months, the Project Team will be working on:

- ➔ Completion of the draft hydrology report
- ➔ Commencement of Environmental Specialists Surveys.
- ➔ Continuation of Hydraulic Modelling including baseline scenarios.
- ➔ Implementation of our Invasive Species Management Plan for 2022
- ➔ Tidal water level data collection for coastal flood risk assessment
- ➔ Continuation of Potential for Natural Water Retention Measures
- ➔ Commence drafting Environmental Impact Assessment Screening and Scoping Reports
- ➔ Commence drafting Appropriate Assessment Screening for Natura Impact Statement
- ➔ Hydrogeomorphology Assessment



Contact Us

If you would like to contact our Project Team about any matter relating to the Ramelton Flood Relief Scheme you can do so through the following:

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If you would like any further information on the Scheme including programme, please visit our website:

www.floodinfo.ie/frs/en/ramelton/home/