



Mountmellick
FLOOD RELIEF SCHEME

Mountmellick Flood Relief Scheme

November 2022 Update

Laois County Council

Mountmellick Flood Relief Scheme

▶ Summary of Presentation;

1. 1. Key Dates
2. 2. Impacts of Storms Ciara, Denis and Jorge
3. 3. Key Elements of Mountmellick Flood Relief Scheme
4. 4. Current Focus
5. 5. Other Interventions;
 - ▶ Drainage Maintenance
 - ▶ Demountable Flood Barriers
- ▶ 6. Concluding Remarks

Mountmellick Flood Relief Scheme

Key Dates

- | | |
|--|----------------|
| ▶ OPW South Eastern CFRAMS Report | October 2017 |
| ▶ Mountmellick - Highest Flood on Record | November 2017 |
| ▶ OPW Flood Risk Funding Plan | February 2018 |
| Design Team Contract Commencement | October 2019 |
| Early Engagement Day | November 2019 |
| ▶ Programmed Date for application to ABP | February 2021 |
| ▶ Storms Ciara, Denis and Jorge | February 2020 |
| ▶ Emerging Options Public Consultation | April 2021 |
| ▶ Likely Date for application to ABP | September 2023 |

Mountmellick Flood Relief Scheme

Impacts of Storms Ciara, Denis and Jorge

February 2020

Flooding issues far more complex than envisaged under the OPW CFRAMS Report

A very complex Hydraulic Network and inter-dependence between the various water courses and structures

Substantially broadened the area requiring protection from 4.6km² to 6.1km² (+33%)

Owenass Bridge



Mountmellick Flood Relief Scheme

Key Elements of (Expanded) Flood Relief Scheme

6km of embankments

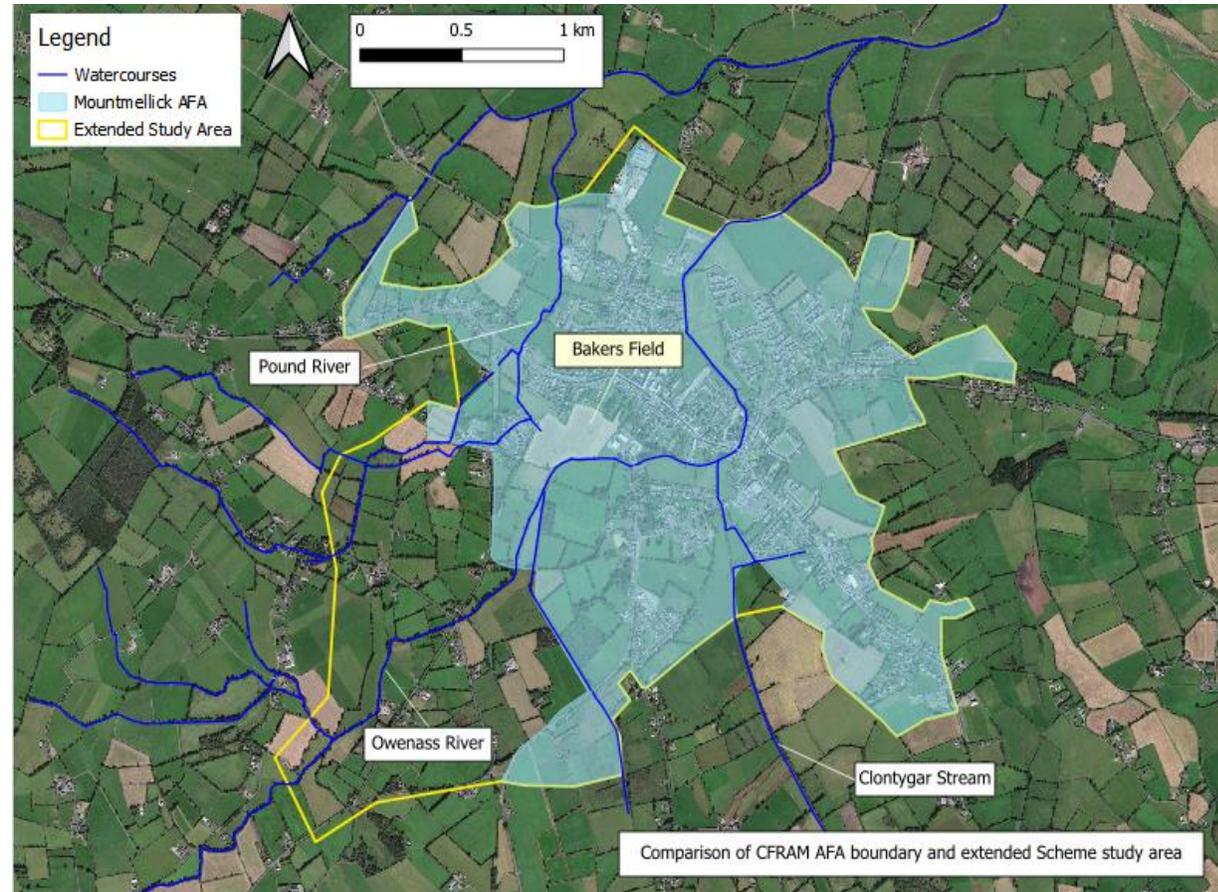
(Previously 2.4km in CFRAMS)

1km of flood walls

Replacement Bridge (Owenass)

200m Localised Road Raising

**Estimated 10.5Ha (26acres)
Land Acquisition**



Mountmellick Flood Relief Scheme

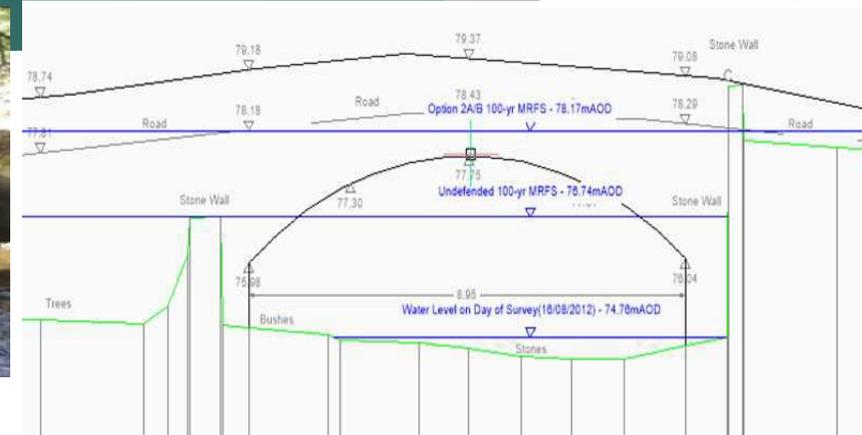
Current Focus

Owenass Bridge

Key element of the Scheme is to prevent Owenass Floodwaters from entering the Pound.

That means more Floodwaters through Owenass Bridge

Replacement Bridge is needed on Owenass River



Other

Ongoing Site Investigations & Surveys

Surface and Ground Water Monitoring

Surface water study for Davitt Road

Climate change impact and future adaptability of the scheme



Mountmellick Flood Relief Scheme

Other Interventions - Annual Drainage Maintenance Programme

- ▶ **Comprehensive drainage maintenance from 2020-2022**
- ▶ **Targeted primary and tertiary water courses in Mountmellick and along the River Barrow to a point 8km downstream**
- ▶ **Works involved the removal of obstructions that slow the flow of the rivers, thus decreasing flood risk. The obstructions removed included:**
 - ▶ - **overhanging branches to allow unobstructed flow of the river**
 - ▶ - **individual instream trees**
 - ▶ - **accumulated loose debris**
 - ▶ - **removal of dry deposited/accumulated material in the river channel**

Mountmellick Flood Relief Scheme

Other Interventions – Convent Bridge



Convent Bridge before



Convent Bridge after

Mountmellick Flood Relief Scheme

Other Interventions – Convent Bridge



Convent Bridge before



Convent Bridge after

Mountmellick Flood Relief Scheme

Other Interventions – Irishtown Bridge



Irishtown Bridge before



Irishtown Bridge after

Mountmellick Flood Relief Scheme

Other Interventions – Owenass River



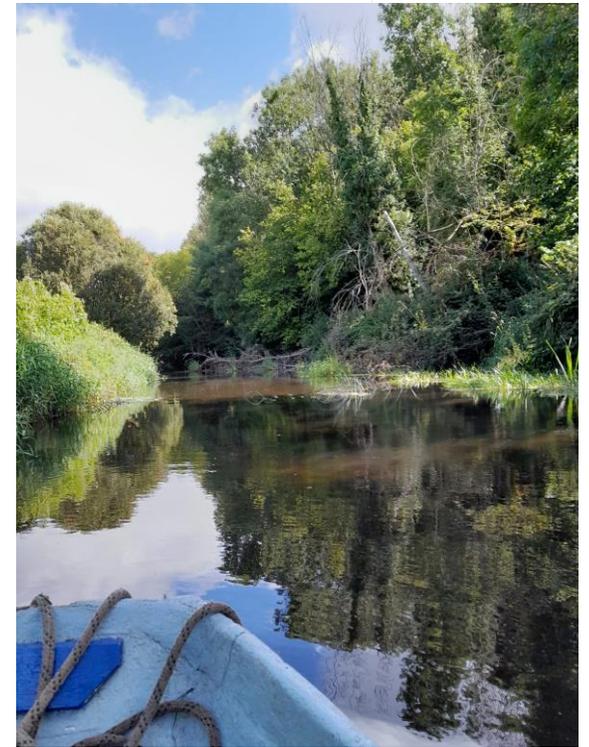
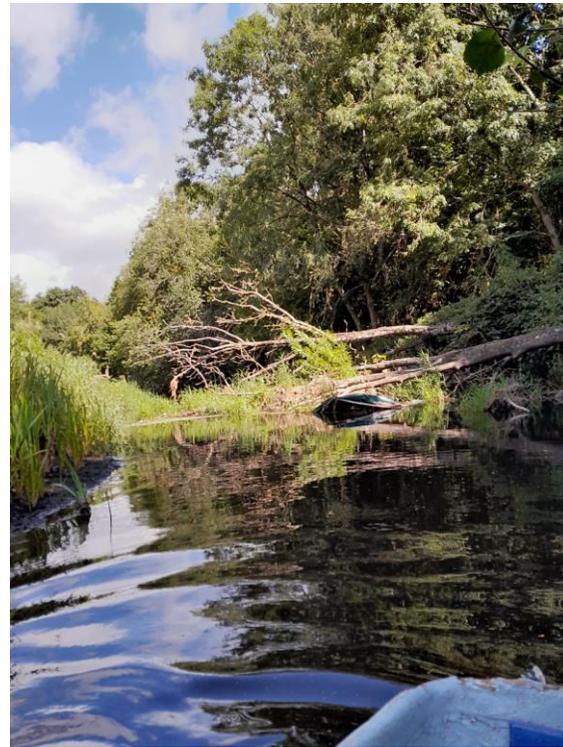
Owenass – accumulated materials



Owenass – after works

Mountmellick Flood Relief Scheme

Other Interventions – River Barrow Before



River Barrow – example narrowings & blockages

Mountmellick Flood Relief Scheme

Other Interventions – River Barrow After



River Barrow – after works

Mountmellick Flood Relief Scheme

Other Interventions – Demountable Flood Barriers

Individual Property Flood Barriers

In 2018 Laois County Council introduced a scheme to grant aid up to 50% of the cost of standard demountable flood barriers for properties subject to flood risk. 58 Barriers allocated to date.

The Scheme is still available.



Mountmellick Flood Relief Scheme

Concluding Remarks

Complex Drainage Scheme with multiple water bodies

Expanded Scheme following on from Storms Ciara, Jorge and Denis

Ongoing design work and data accumulation

Application to An Bord Pleanála September/October 2023

Drainage Maintenance Programme will continue in the interim

Further Update Q2 2023