



OPW Oifig na
nOibreacha Poiblí
Office of Public Works

Flood Map Update

MR018 Malahide

Version 1.0
March 2026

Contents

1	Map Review Programme	1
2	Flood Map Review Request	1
2.1	Summary of request	1
3	Flood Map Update	3
3.1	Summary of issue	3
3.2	Conclusion	4

1 Map Review Programme

The Map Review Programme is the process that the OPW follows to update predictive flood mapping to continue to provide the best available flood risk information to as wide an audience as possible. The Flood Maps have been developed from detailed engineering analysis and modelling. There is always some uncertainty with regard to the accuracy of predictive flood models; however, the detailed models used have been developed using the best available modelling techniques, tools and data at the time of production.

Updates and revisions to the Flood Maps will be prepared as appropriate. Updates to the Flood Maps are considered when one of the below criteria are met:

- A change in the physical conditions since the Flood Map was produced. Examples of potential changes include new infrastructure, a new development, a culvert or bridge upgrade, land raising, channel realignment, etc.
- An error has been identified in the survey. Errors in the survey may include a channel missing or a channel misaligned, or an error in the surveyed levels used.
- Completion of an OPW-funded Flood Relief Scheme or Minor Works Scheme.
- Evidence presented by a recent flood event that calls into question the published Flood Map.
- The completion of a Strategic Flood Risk Assessment, supported by hydraulic modelling, which produces flood maps that are materially different to the OPW published Flood Map.

The Flood Map Review Programme covers Flood Maps produced by the National Catchment Flood Risk Assessment and Management Programme (CFRAM) and other projects that produce detailed productive flood mapping as published on www.floodinfo.ie. The CFRAM Programme was the principle vehicle to deliver on Ireland's commitments under the EU Floods Directive (2007/60/EC). The EU Floods Directive also requires that the Member States review and if necessary update the flood maps on a six-yearly cycle; the Map Review Programme is the process that satisfies this requirement.

The review of indicative national mapping datasets such as the outputs of the National Indicative Fluvial Mapping and the National Coastal Flood Hazard Mapping are not considered as part of the Map Review Programme.

2 Flood Map Review Request

2.1 Summary of request

The OPW received correspondence from Fingal County Council that identified an issue with flood extents displayed on Floodinfo.ie. Fingal County Council provided evidence of flooding along Bisset Strand, Malahide, see Figure 2-1 for the photo location and Figure 2-2; Flooding on Bisset Strand, Malahide for the photo itself. This flooding is not shown in the CFRAM maps, which only show marginal flooding in all events for that area. As evidence was presented by a recent flood event which called into question the OPW published Flood Map, a Map Update is warranted. The OPW's Past Flood Database also indicates that the Bisset Strand and the Estuary Road areas are subject to recurring coastal flooding.

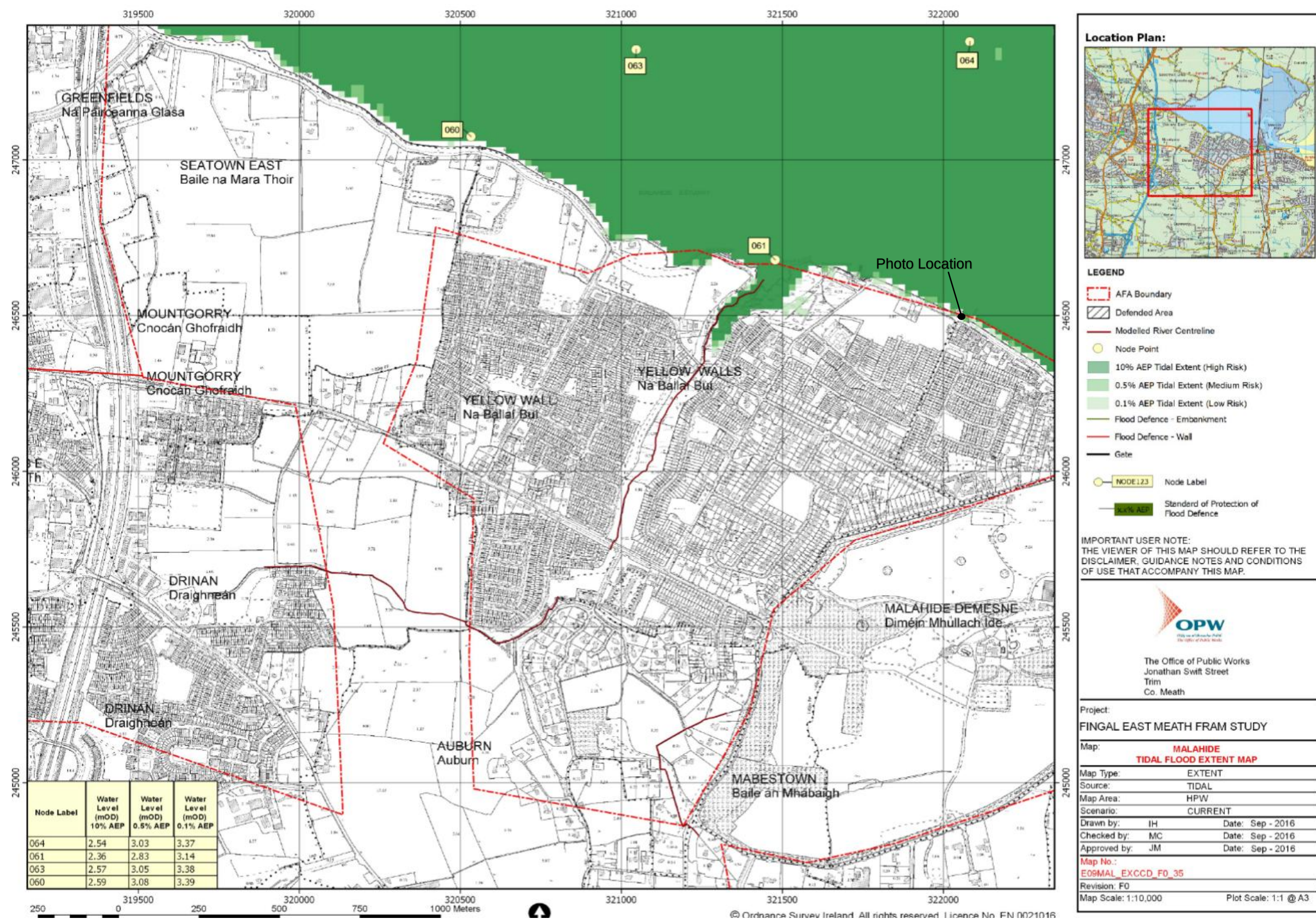


Figure 2-1; Tidal Flood Extent Map



Figure 2-2; Flooding on Bisset Strand, Malahide

3 Flood Map Update

3.1 Summary of issue

The coastal flood mapping in this area was produced by the Fingal East Meath Flood Risk Assessment & Management Study (FEMFRAMs). A review of the original data produced by the FEMFRAMs identified an error in the displayed coastal flood extents. The source data was then re-extracted from the FEMFRAMs hydraulic model results to provide appropriate flood maps. A further review identified that the issue was not constrained to Bisset Strand. The full extent is shown in Figure 3-1.

The data updated included the Current Scenario coastal flood extents, depths and node data for the area shown in Figure 3-1.

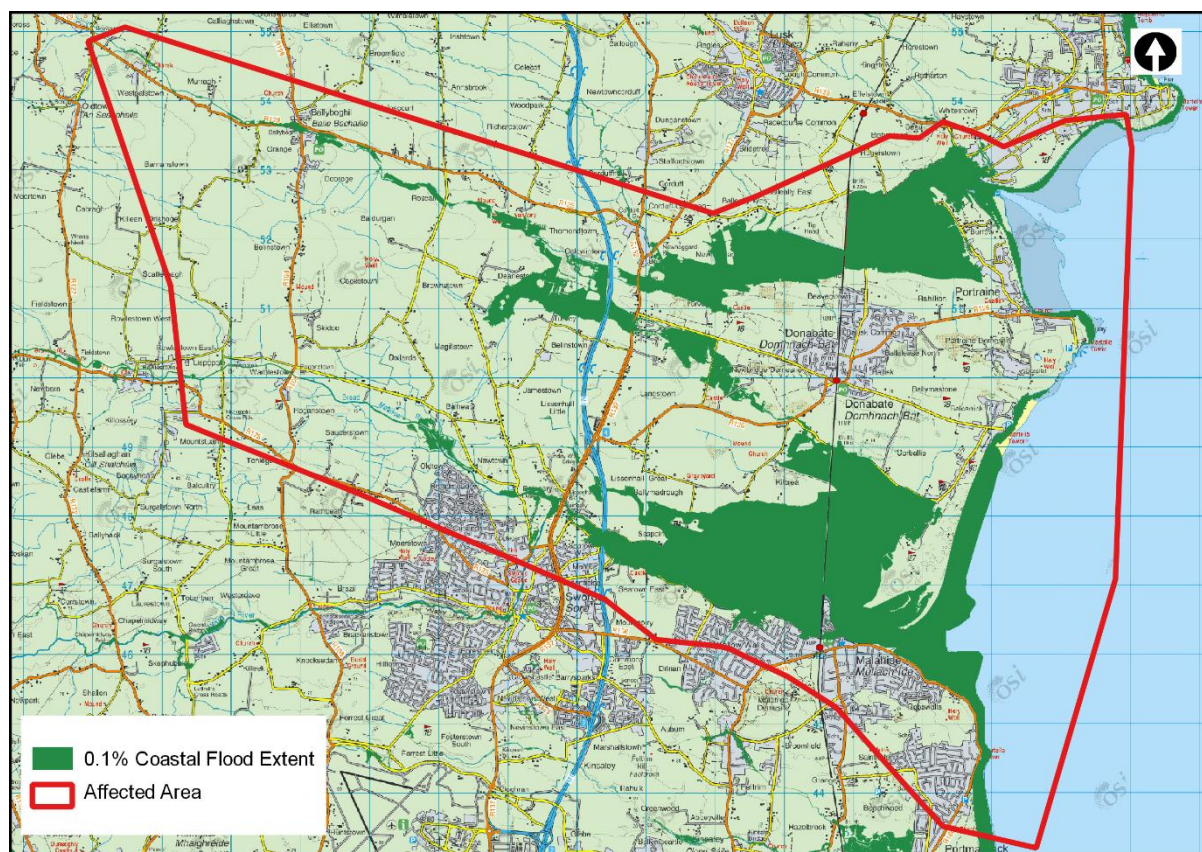


Figure 3-1; Overview of Affected Area

3.2 Conclusion

Evidence was presented for a flood event which called into question the published OPW Flood Map. Upon review it was determined that incorrect coastal flood extents and depths were originally extracted from the flood model, and the maps have been updated to reflect the correct model results. Bisset Strand is now shown within the flood extents, as supported by the available evidence, see Figure 3-1; Updated Flood Map

The following PDF tiles have been revised as part of this Map Update:

- staffordstown_turvey17
- staffordstown_turvey18
- donabate19
- portrane20
- swords24
- donabate22
- portrane20
- malahide35
- malahide36
- malahide40
- malahide44

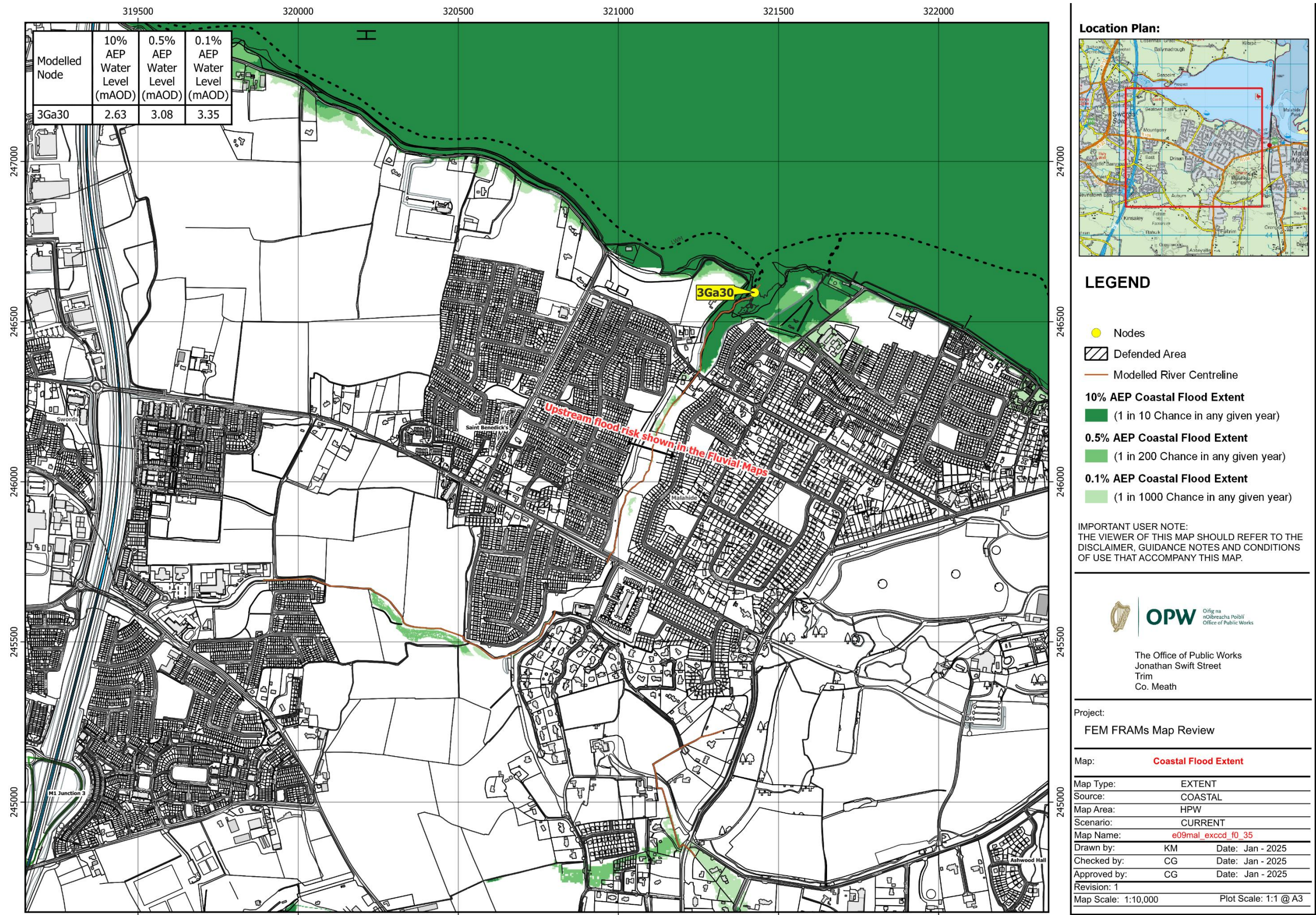


Figure 3-1; Updated Flood Map