

51 St Ishmaels Ward, Ferryside North Policy Unit

51.1 Area Description

The Ferryside North is the portion of the village to the North of Heol Portway and the railway station.

This is a hydrologically separate area from Ferryside South.

Ferryside is a coastal village on the Tywi Estuary with the railway forming an embankment between the river and the estuary. The Main River Cwm Mill Stream is on the northern side of the village and there is high land behind the village to the east.

51.2 Why is this area a Flood Risk Policy Unit?

The uFMfSW (EA, 2013) highlight this area to be at risk of flooding. These surface water flood maps are useful in highlighting the flood risk from small watercourses.

There are multiple sources of flooding for this area; fluvial from the main Cwm Mill Stream, pluvial from the high ground, with a catchment of approximately 50ha, and tidal from the estuary.

Although the FRMP is only looking at Ordinary Watercourse and surface water flooding it is necessary to look at considering their interaction with main river and tidal.

The lowest properties in this area have surrounding ground levels of 4.1mAOD and are some of the lowest dwellings in Carmarthenshire. When this is looked at against the tide levels for Ferryside it can be seen that it will be challenging to prevent flooding:

MHWS	HAT	T1	T10	T50	T100	T200
4.1mAOD	5.1mAOD	5.00mAOD	5.25mAOD	5.43mAOD	5.51mAOD	5.58mAOD

Communities at Risk Register shows 3 properties at risk of pluvial flooding, 0 at risk of fluvial flooding and 98 at risk of tidal flooding.

Any potential scheme is likely to be expensive and to require pumping.

51.3 Flooding Events

- Regular flooding of the road leading into Ferryside due to the main river overtopping
- Flooding at Glan Morfa January 2013
- Flooding at Glan Morfa in October 2018 due to a combination of main river and tidal
- Flooding at Glan Morfa Believed to be DCWW issues with pumping station
- Pluvial Flooding of the Chapel at Eva Terrace
- Pluvial Flooding at Glan Tywi with water running off higher land

51.4 Flood Defence Capital Works undertaken by CCC

None

51.5 Flood Defence Capital Works undertaken by Partner Organisations

Periodic dredging of Cwm Mill Stream by NRW.

51.6 Flood Defence Assets

The railway line is the main flood defence asset preventing tidal flooding.

CCC does not maintain any assets.

51.7 Routine Works and Maintenance

None

51.8 Proposed Future Works

Given the complexities at this location, discussion with NRW Railtrack and Local Community needed on potential to manage flooding.

Sea level rise will result in increased frequency and severity of flooding.

51.9 Flood Risk

51.9.1 Map 1: Total Properties

Map 1 over the page displays data on the total number of properties at risk of flooding. Total properties can include dwellings, garages, commercial premises, industrial premises and similar structures.

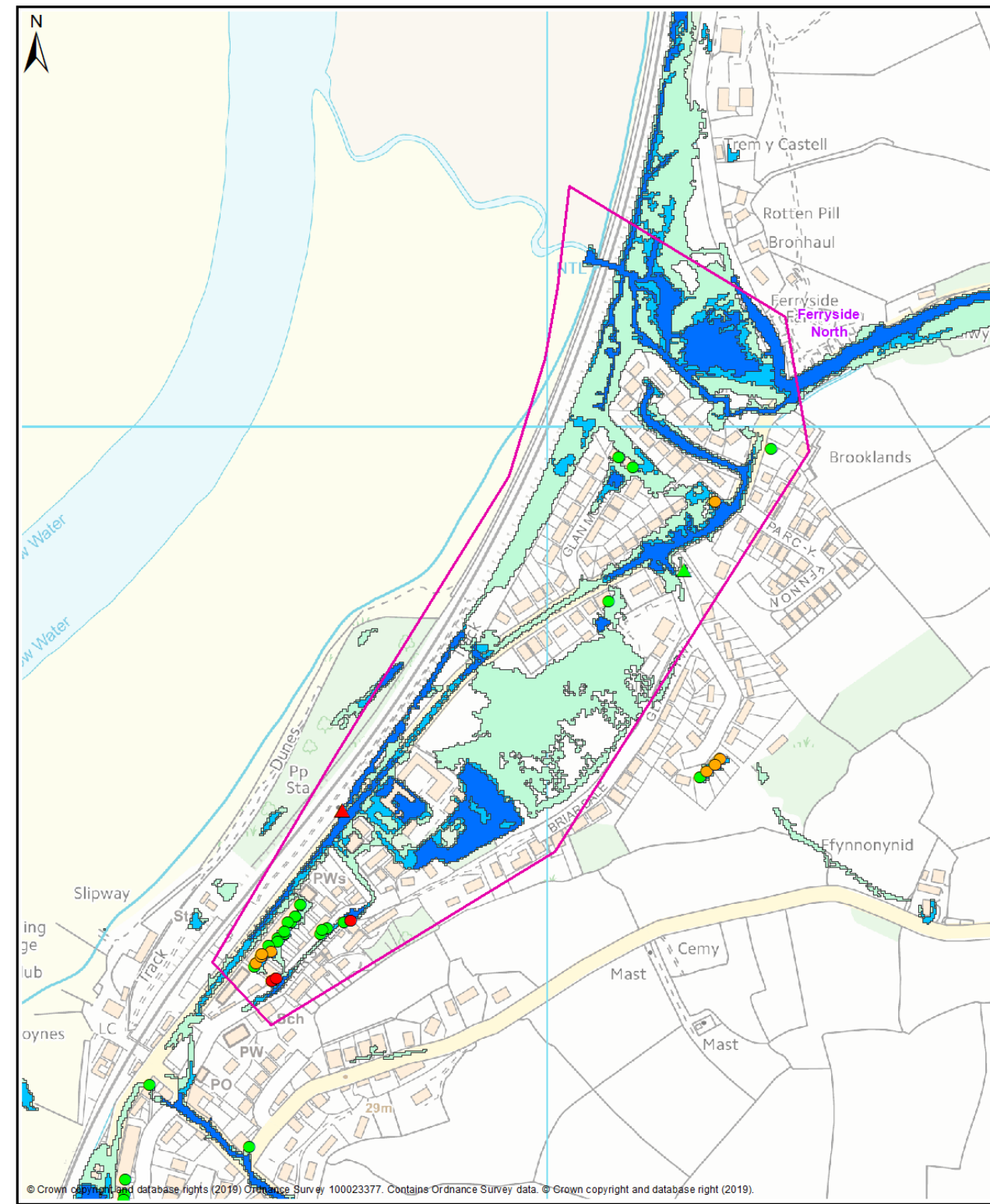
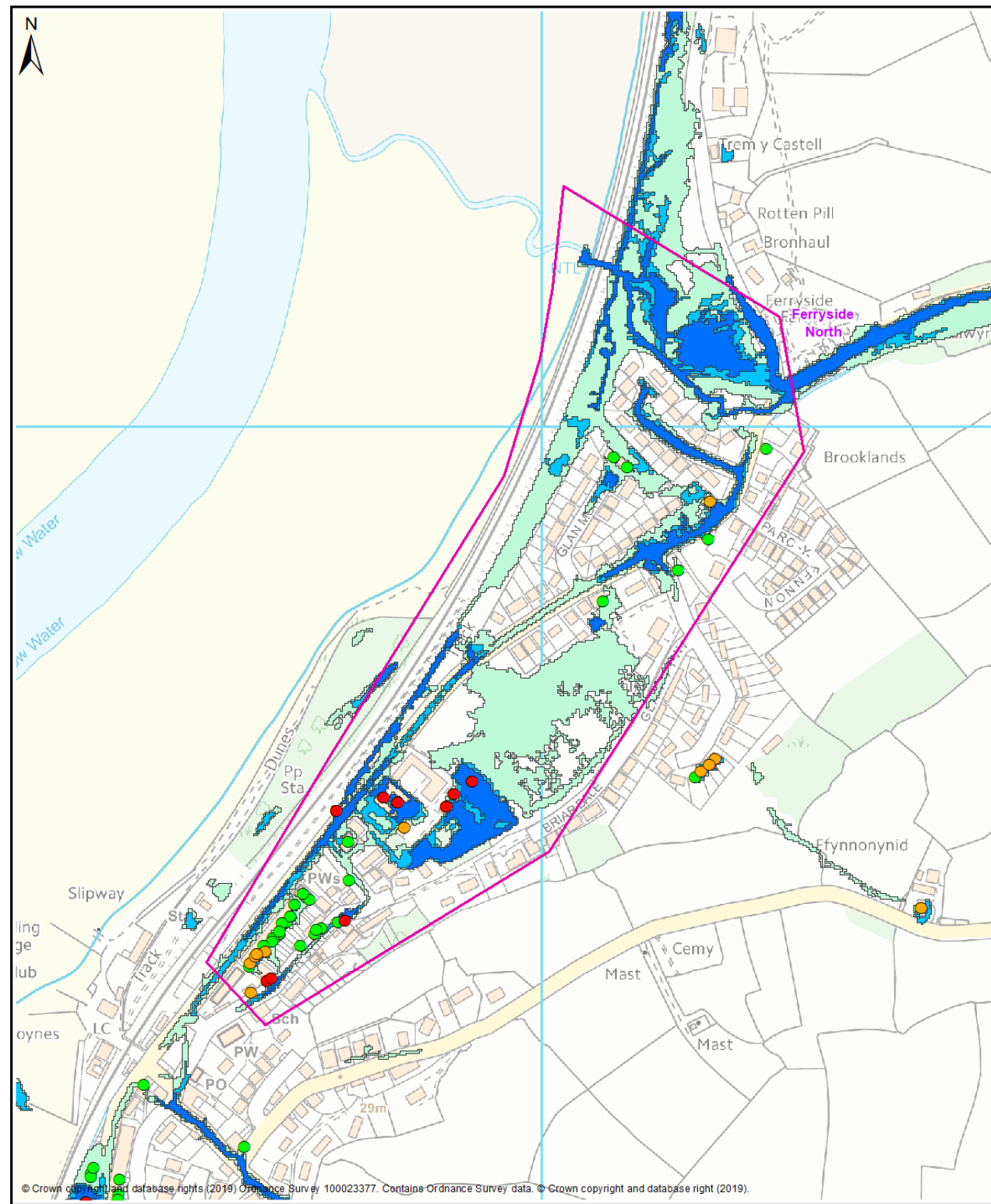
51.9.2 Map 2: Dwellings and Services

Map 2 below displays data on the residential properties and services at risk of flooding.

51.9.3 Map 3: Community at Risk Register (CaRR)

This is the most recent flood mapping from Welsh Government. This dataset depicts all properties at risk of pluvial (surface water) flooding in a storm event with a 1 in 100 probability.

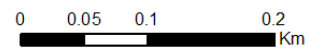
	Number of specified units at risk of flooding		
	1 in 30 probability storm event	1 in 100 probability storm event	1 in 1000 probability storm event
Map 1 Total Properties	9	17	44
Map 2 Dwellings and Services	4	10	31
Map 3 CaRR	n/a	3 Pluvial 0 Fluvial 98 Tidal	n/a



Map 1 - All Properties

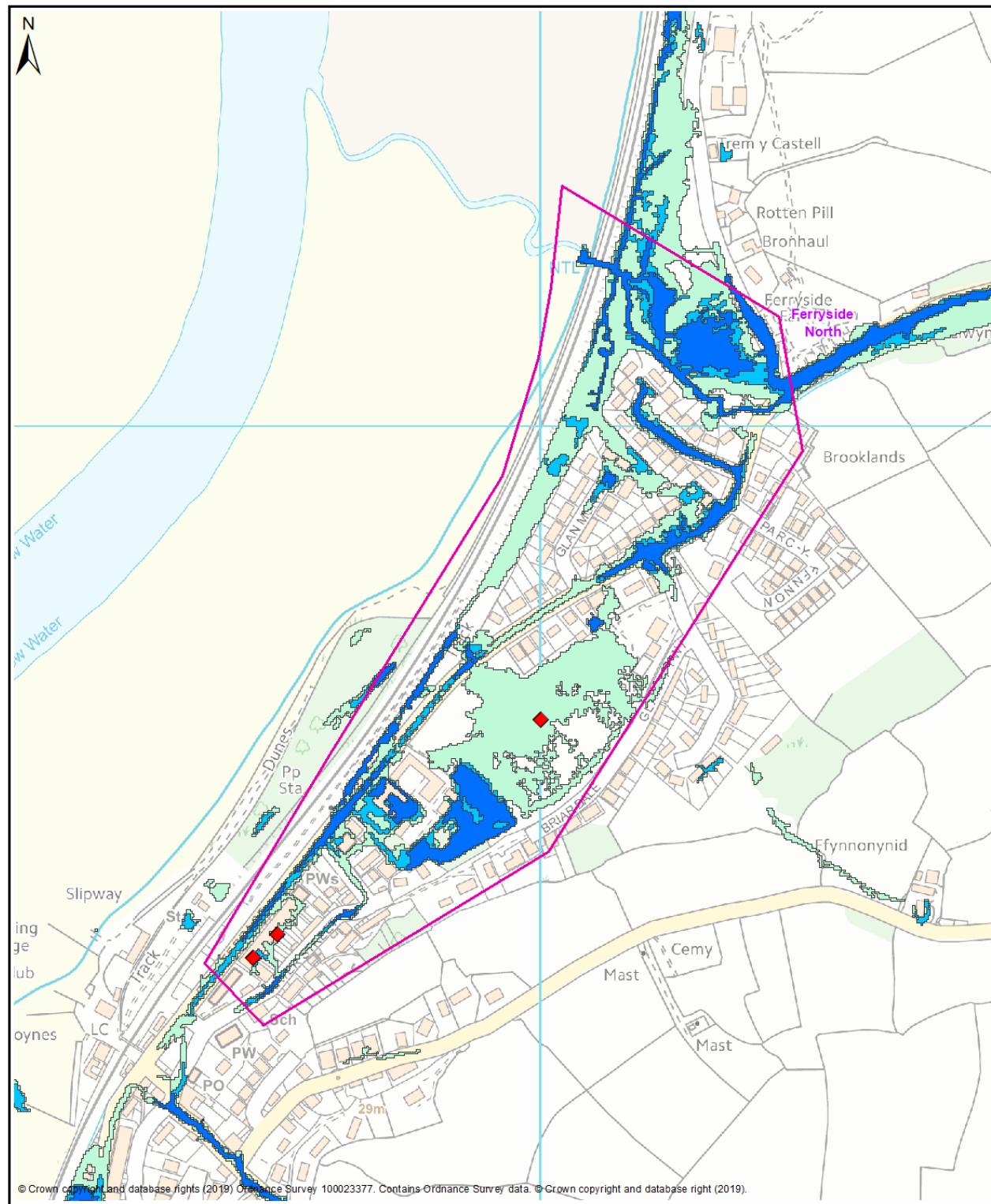
- Legend**
- Policy Unit
 - uFMSW Q30 Surface Water Flood Outline 1 in 30 Probability Storm Event
 - uFMSW Q100 Surface Water Flood Outline 1 in 100 Probability Storm Event
 - uFMSW Q1000 Surface Water Flood Outline 1 in 1000 Probability Storm Event
 - Q30 All Property Classes Flood Depth 150mm or Greater
 - Q100 All Property Classes Flood Depth 150mm or Greater
 - Q1000 All Property Classes Flood Depth 150mm or Greater

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Map 2 - Dwellings and Services

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 - uFMSW Q1000 Surface Water Flood Outline 1 in 1000 Probability Storm Event
 - Q30- Dwellings Flood Depth 150mm or Greater
 - Q100- Dwellings Flood Depth 150mm or Greater
 - Q1000- Dwellings Flood Depth 150mm or Greater
 - ▲ Q30- Services Flood Depth 150mm or Greater
 - ▲ Q100- Services Flood Depth 150mm or Greater
 - ▲ Q1000- Services Flood Depth 150mm or Greater



Map 3 - Communities at Risk Register

Legend

- Policy Unit
- uFMSW Q30
Surface Water Flood Outline
1 in 30 Probability Storm Event
- uFMSW Q100
Surface Water Flood Outline
1 in 100 Probability Storm Event
- uFMSW Q1000
Surface Water Flood Outline
1 in 1000 Probability Storm Event

- ◆ CARR Pluvial
- ◆ CARR Fluvial

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