

36 Llangennech Ward, Llangennech Policy Unit

36.1 Area Description

The Llangennech Policy Unit comprises of the catchment associated with the Nant Mwrwg Ordinary Watercourse. This watercourse originates north west of Llangennech in an agricultural catchment. It flows predominately in an open channel but upon reaching the town of Llangennech the channel becomes heavily modified. Upstream of Llangennech at Mwrwg Road there is a bifurcation structure which controls the volume of water in the Mwrwg and flowing through Llangennech. Excess storm flows are channelled west along a CCC flood relief culvert before being discharged into the River Morlais.

36.2 Why is this area a Flood Risk Policy Unit?

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

Flood mapping indicates a significant number of properties are at risk of flooding in this area.



36.3 Flooding Events

- 2011: Flooding at Station Road and Heol Y Parc as a result of blockage in the railway culvert
- 2014: Tidal flooding of property at Heol Y Parc

36.4 Flood Defence Capital Works undertaken by CCC

- 1985: Construction of Mwrwg Road flood relief culvert
- 2000: The trash screen at Heol Mwrwg was upgraded
- 2005: Construction of additional culvert at Heol Y Parc to improve conveyance and capacity of ordinary watercourse
- 2015: Installation of a flood bund at Heol Y Parc
- 2015: Construction of a wall and associated non-return flap at Heol Y Parc
- 2018: The highway culvert beneath the B4297 adjacent to the Bridge Inn was upgraded

36.5 Flood Defence Assets

Mwrwg Road Trash Screen	Mwrwg Road Bypass Culvert	Mals wall and non-return flap
		
Heol Y Parc Culvert	Heol Y Parc bypass channel	Heol Y Parc Embankment

36.6 Routine Works and Maintenance

Area	Works Undertaken	When
Nant Mwrwg	Watercourse trashing and grass cutting	Annually
Mwrwg Road	Formal T98 Inspection	Annually
	Debris management	Weekly in the winter Monthly in the summer
Railway Culvert and Flap Valve	Visual Inspections	Before spring tides
Mwrwg Road Bypass Culvert	CCTV	2018
Heol Y Parc Embankment	Formal T98 Inspection	Annually
Heol Y Parc Culvert	Formal T98 Inspection	Annually
Mals Wall and non-return flap	Formal T98 Inspection	Annually

36.7 Proposed Future Works

2019: The Mwrwg Road bypass culvert will be CCTV surveyed and maintenance and repairs actioned accordingly.

CCC will continue to work with NRW and Network Rail to make improvements to the River Mwrwg Railway culvert and outfall to the estuary.

36.8 Flood Risk

36.8.1 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.

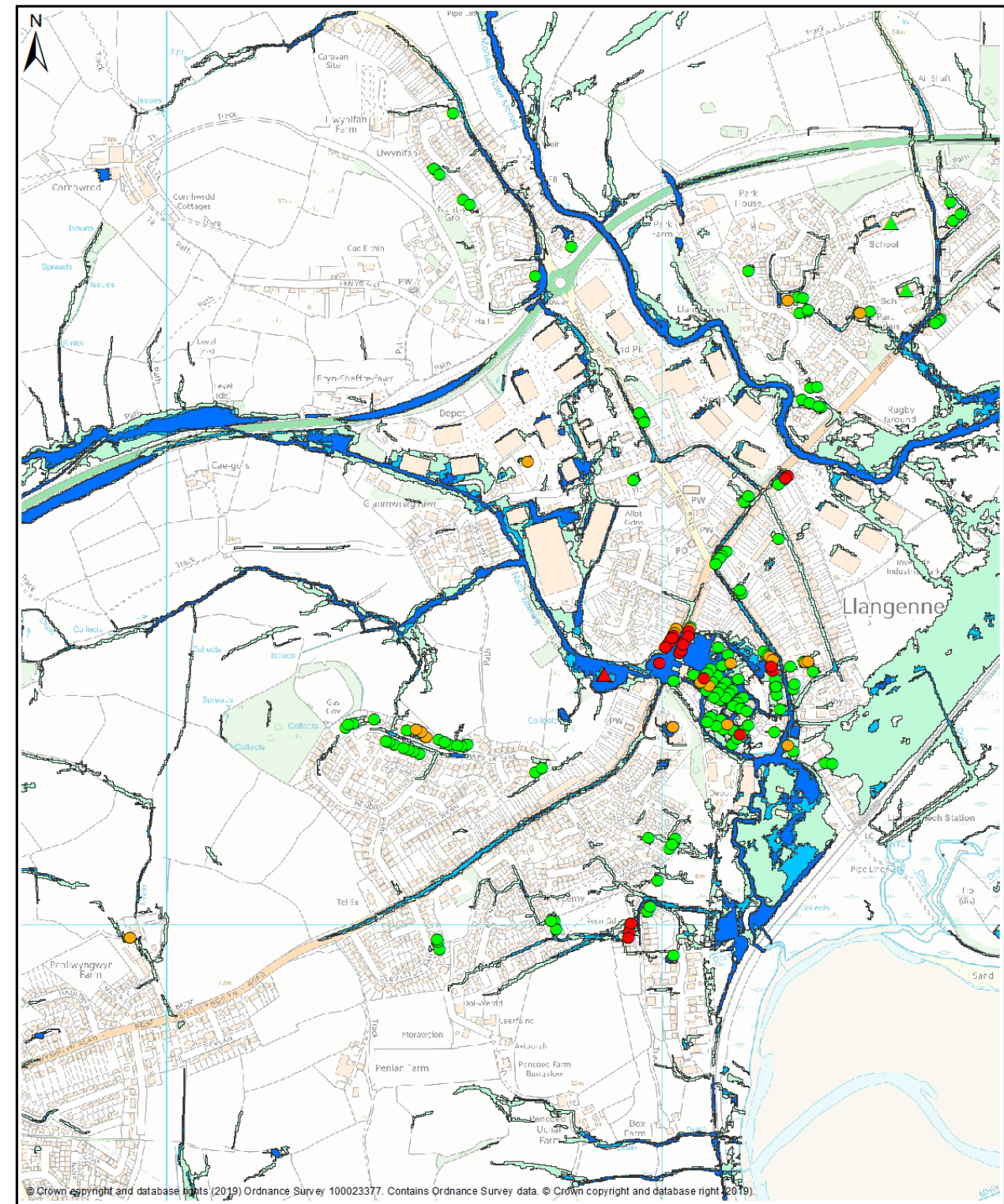
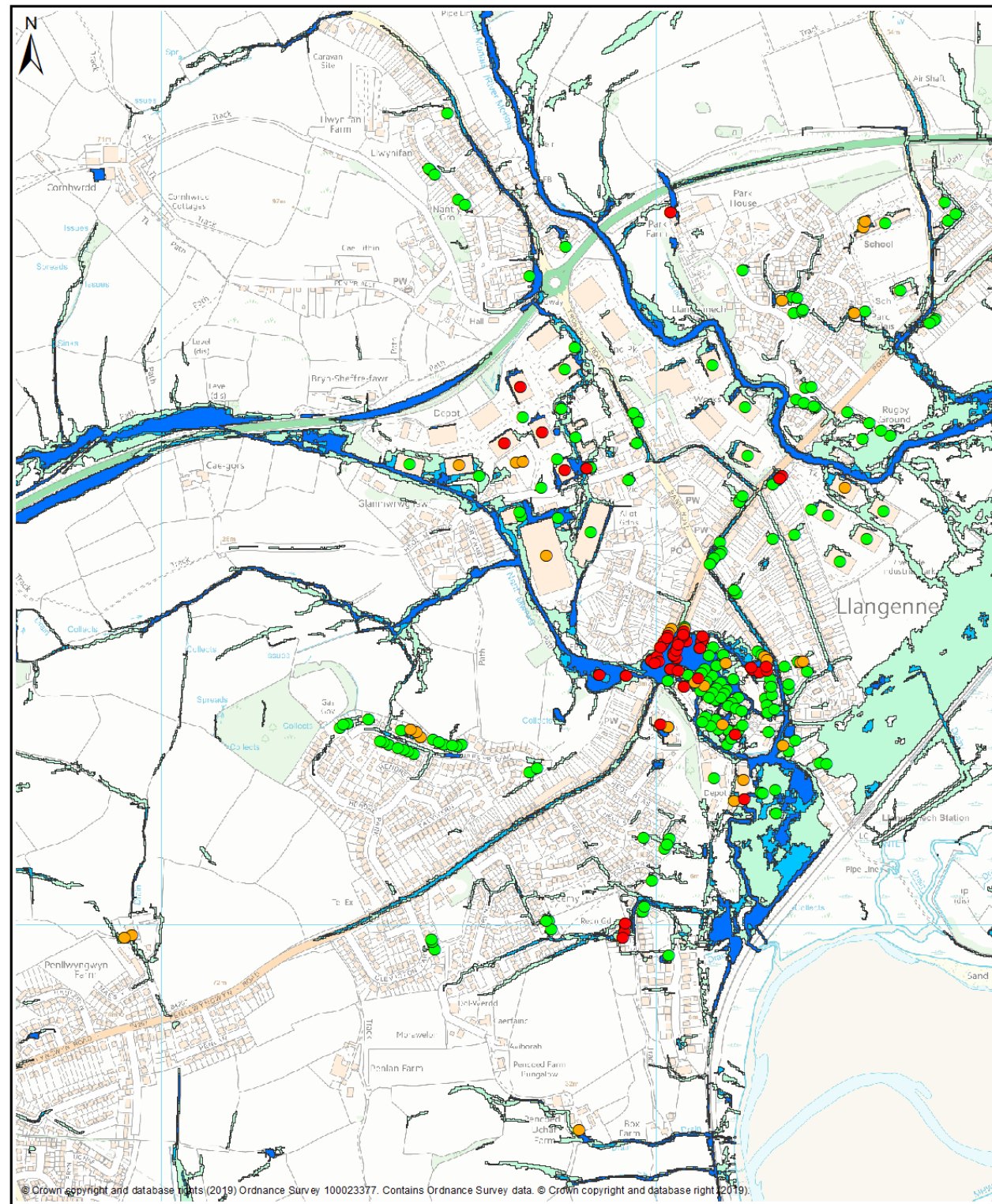
36.8.2 Map 2: Dwellings and Services

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

36.8.3 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.

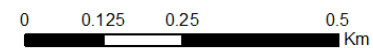
	Number of specified units at risk of flooding		
	1 in 30 probability storm event	1 in 100 probability storm event	1 in 1000 probability storm event
Map 1 Total Properties	48	100	201
Map 2 Dwellings and Services	23	70	142
Map 3 CaRR	n/a	23 Pluvial 183 Fluvial 60 Tidal	n/a



Map 1 - All Properties

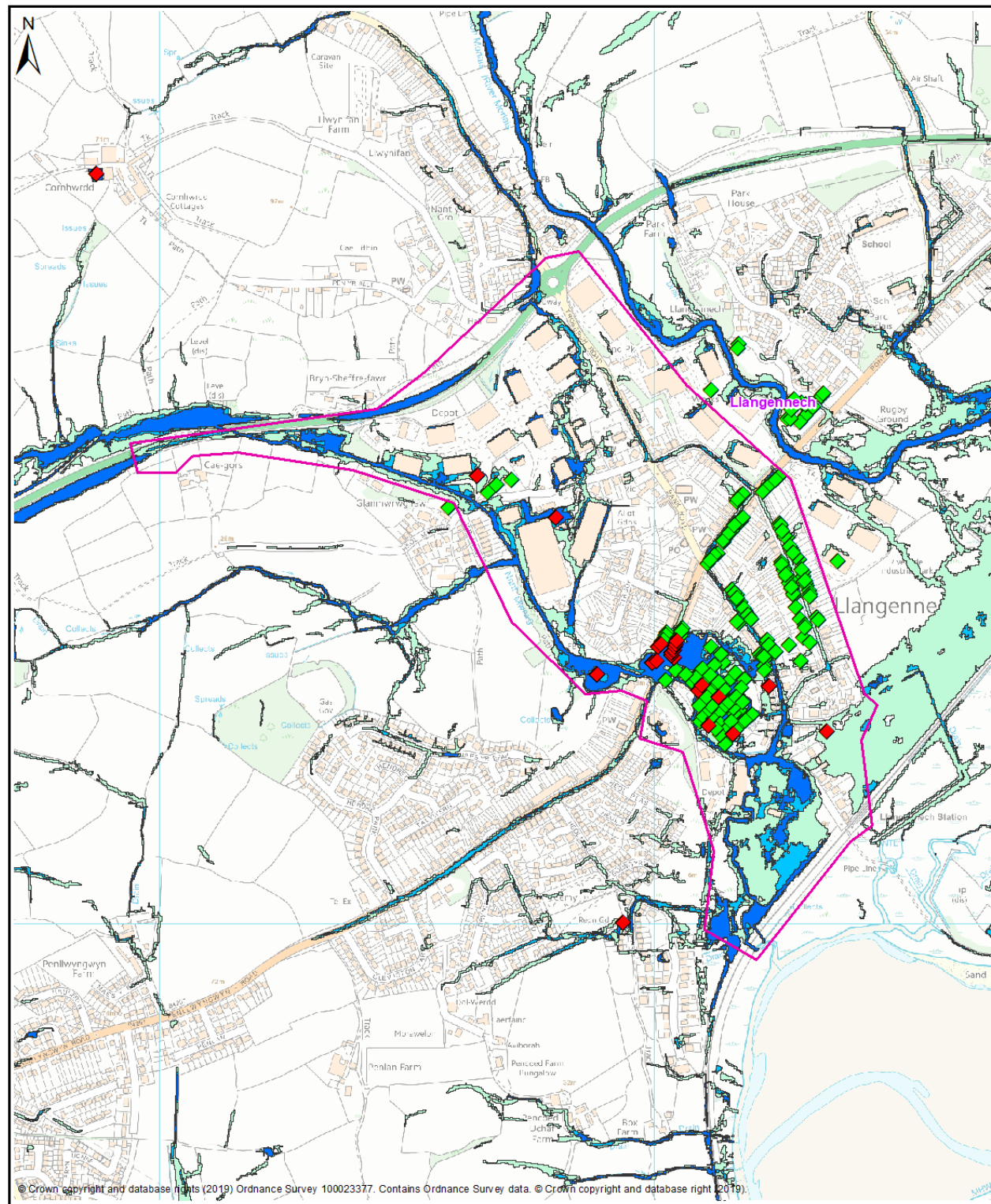
- Legend**
- Policy Unit
 - uFMSW Q30 Surface Water Flood Outline 1 in 30 Probability Storm Event
 - uFMSW Q100 Surface Water Flood Outline 1 in 100 Probability Storm Event
 - uFMSW Q1000 Surface Water Flood Outline 1 in 1000 Probability Storm Event
 - Q30 All Property Classes Flood Depth 150mm or Greater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

- ◆ CARR Pluvial
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