## CMU 3/1 - QUARRY JETTY

A55

Description and issues

- Eroding coastline.
- Important infrastructures running behind.

RAYNES JETTY

RAILWAY

CEMEX COLWYN BAY CONCRETE PLANT

# Wits



A55





## CMU 3/3 LLANDDULAS WASTE TIP

### Description and issues

- Erosion of SSSI exacerbated by end effect of revetment.
- Need to maintain protection, as failure here could lead to extensive erosion and risk of contamination as well as exposure to the railway line and A55 behind.

THE BEACH

HOLIDAY PARK



A55

TITUL





RAILWAY



**Erosion at SSSI** 







## CMU 3/2 B - LLANDDULAS BEACH

Description and issues

- This area floods significantly under extreme conditions.
- The walkway is particularly affected by wave overtopping under extreme events.

THE BEACH

HOLIDAY PARK





A55



RAILWAY



Café



Land behind, where the café is located, is at risk of flooding.

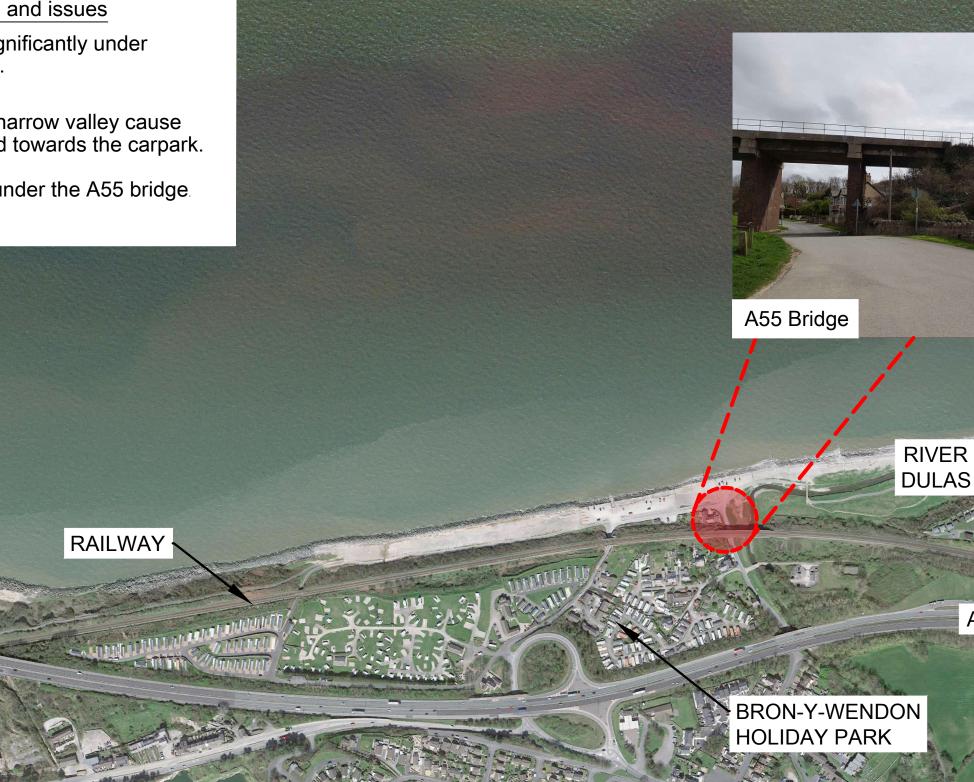


Google earth

## CMU 3/2 A - LLANDDULAS REVETMENT

Description and issues

- This area floods significantly under extreme conditions.
- The low point and narrow valley cause water to be focused towards the carpark.
- Flood water flows under the A55 bridge.









H

A55



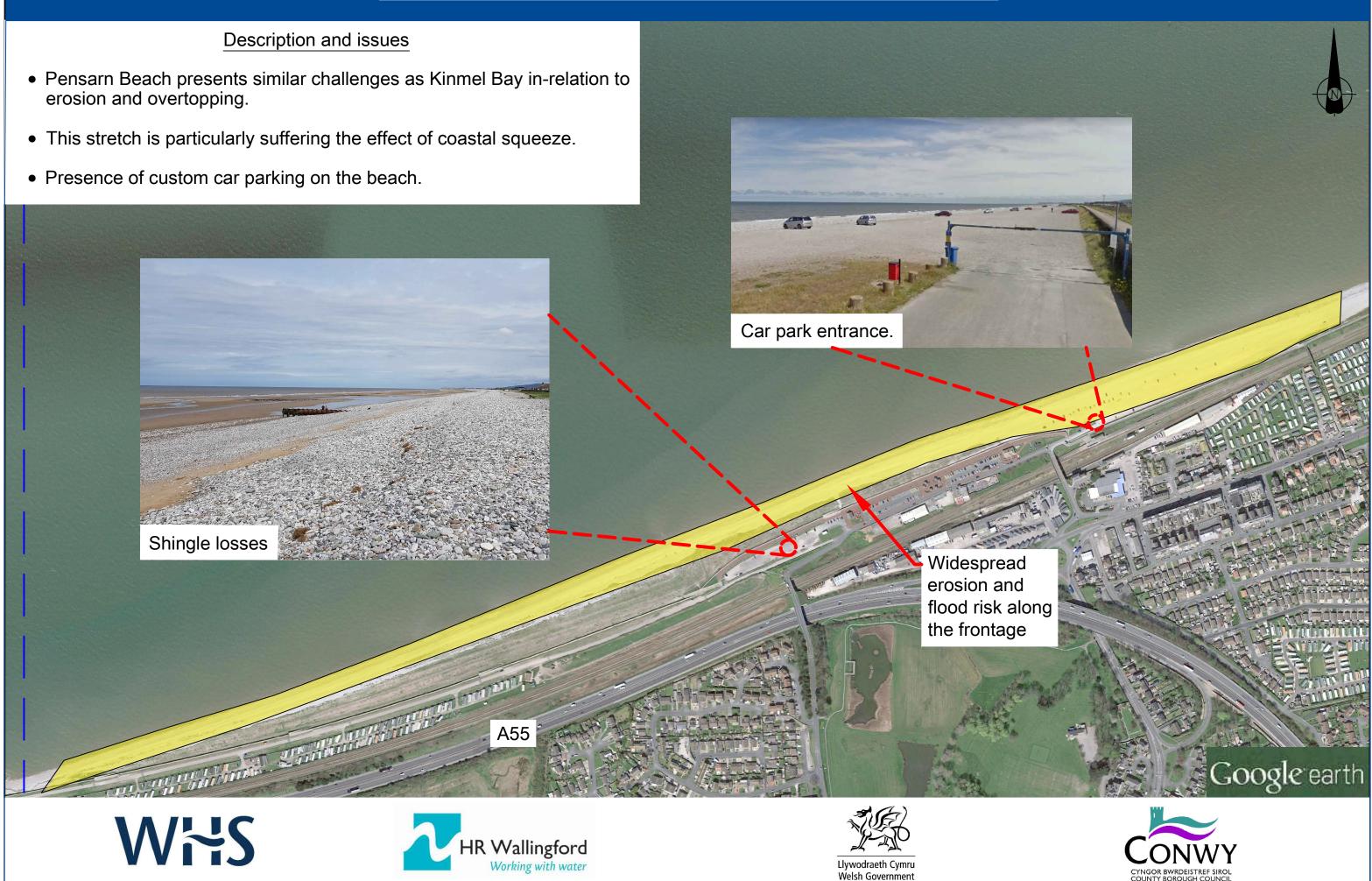
### THE BEACH HOLIDAY PARK

Google earth



### CMU 3/4 - PENSARN BEACH

- erosion and overtopping.









## CMU 3/5A - BELGRANO BEACH

### Description and issues

- •Low-lying and strikingly sparse region, with a distinct lack of shingle ridge.
- •To the west of the Towyn embankment, the railway line is perilously close to the beach, with little protection, provided by an old seawall, circa 100 years old. This is a key area for concern









Welsh Government



## CMU 3/5 B - TOWYN REVETMENT

### **Description and issues**

- •The eastern end of the revetment experienced significant overtopping in December 2013.
- •Even though the seawall seems quite high, as shown in the photographs, the beach/revetment is fairly steep and there is little space to dissipate wave energy due to the depleted shingle beach.
- •The remaining stretch of the revetment provides enough protection against overtopping

**Depleted shingle** beach in front of the revetment.



Google earth





Llywodraeth Cymru Welsh Governmen





### Area that is susceptible to significant level of overtopping



## CMU 3/5 C - KINMEL BAY BEACH

### **Description and issues**

- High shingle beaches susceptible to significant levels of overtopping, particularly under climate change.
- The shingle bank in front of Kinmel Bay has significantly been eroded since November 2016.

Erosion of

shingle bank

Flood event in Dec 2013

> to significant level of overtopping

Car park. Most vulnerable point. If water overtops the seawall or flood gate, it easily can flood the town









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