BUILDING A WORLD OF DIFFERENCE

REVIEW OF THE JUNE 2012 FLOODING IN THE SOUTHERN MANHOOD PENINSULA

PUBLIC WORKSHOP 2



AGENDA

Introduction
Stakeholder engagement / data collection
Initial findings

Model predictions

Completed Medmerry scheme

Medmerry temporary works

Channel vegetation and blockages

Next steps



INTRODUCTION

FABIO SPALIVIERO

PROJECT DIRECTOR



PURPOSE OF REVIEW

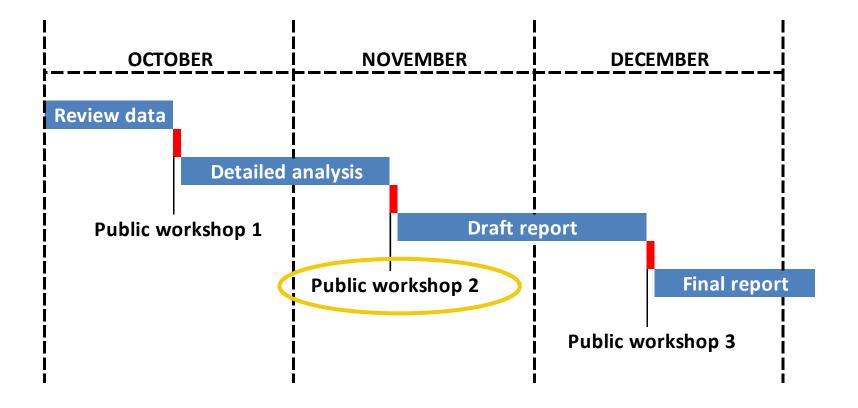
To assess:

- Where and why flooding occurred in June 2012
- What factors could have caused the flooding
- Whether the Medmerry scheme was one of those factors

PURPOSE OF THIS WORKSHOP

- To present our initial findings
- To get feedback on these findings
- To guide the focus of our Review Report

TIMESCALE



STAKEHOLDER ENGAGEMENT

VICKY LUTYENS

PRINCIPAL ENVIRONMENTAL SCIENTIST

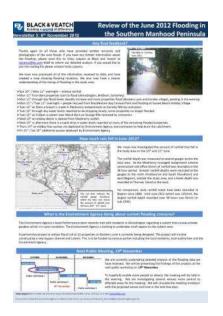


STAKEHOLDER FEEDBACK

- 40 responses to request for info
 - Photographs
 - Written accounts flood extent, duration and time
- Informed flood map and timeline
- Please send any further information ASAP

- Also feedback on stakeholder engagement
 - Public meeting time altered
 - More stakeholders on list 70





DATA COLLECTION



DATA COLLECTION

- Rainfall and water level records
- Survey data (LiDAR, outfalls)
- Medmerry scheme design drawings
- Final scheme concept design report
- Contractor's construction method statement
- Photographs taken during the flood
- Diaries / reports on flood from those on site (Environment Agency, TVO - contractor, Jacobs designer)
- Correspondence between residents and Environment Agency after flood event

TYPES OF INFORMATION USED

- Recorded data rainfall measurements, survey, time stamped photos
- Observations eye-witness accounts (written and verbal)
- Modelling using established software to compare 'what-if' scenarios (modelling results are predictions)

TIMELINE OF JUNE FLOOD

Sun 10th / Mon 11th overnight	Intense rainfall
Mon 11th from 8am	Properties start to flood (Almodington, Birdham, Somerley)
Mon 11th through day	Flood levels steadily increase and more properties flood (Bookers Lane and Earnley village), peaking in the evening
Tues 12th early in morning	People rescued from Bracklesham Bay Caravan Park, flooding at Sussex Beach Holiday Village
Tues 12th at 10am	A breach is made in Medmerry embankment on Earnley Rife by contractor
Tues 12th through day	Water levels generally reported to be dropping slowly, some properties no longer flooded
Tues 12th at 3:30pm	A farm culvert near Marsh Barn on Grange Rife removed by contractor
Wed 13th morning	Environment Agency deployed pump at Bracklesham Bay Caravan Park and ordered additional pumps
Wed 13th at midday	Debris is cleared from Medmerry outfall
Wed 13th in afternoon	There is a rapid drop in water levels reported at many of the remaining flooded properties. Levels begin to drop at Bracklesham Bay Caravan Park.
Thurs 14th at midday	Additional pumps are deployed by Environment Agency and contractor to help drain the catchment
Fri 15th	Additional pumps deployed by Environment Agency
Fri 15th midday	Water almost fully drained away at Bracklesham Bay Caravan Park

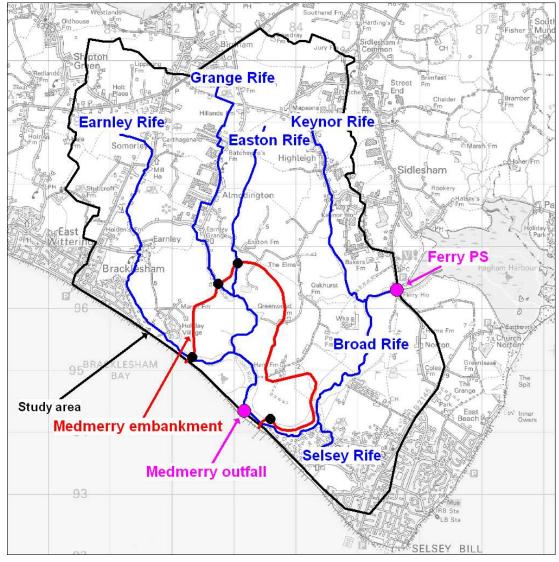
INITIAL FINDINGS

ROB FRASER

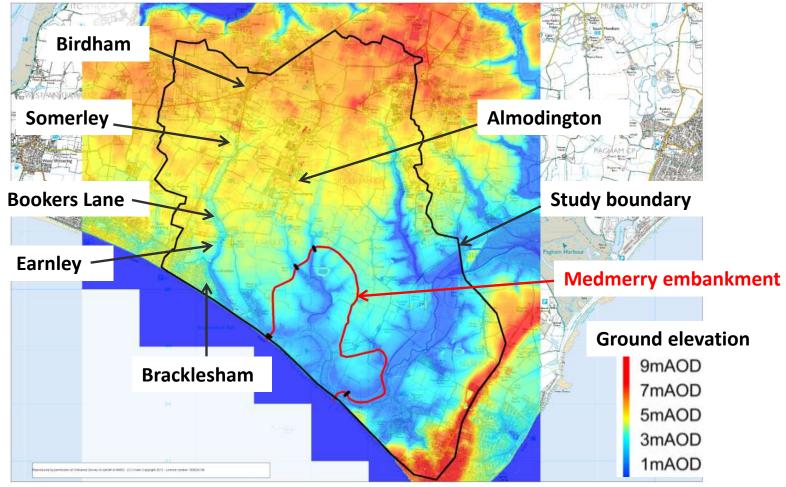
PROJECT MANAGER



BACKGROUND – STUDY AREA

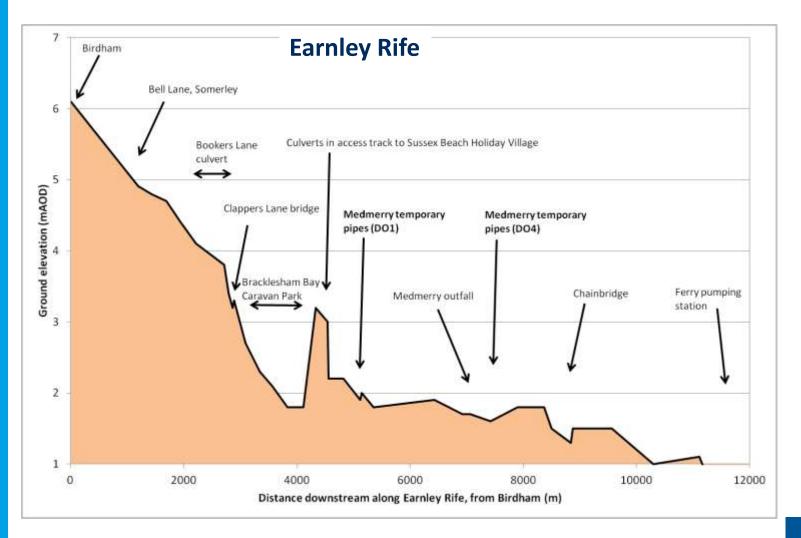


BACKGROUND – GROUND LEVELS (1)

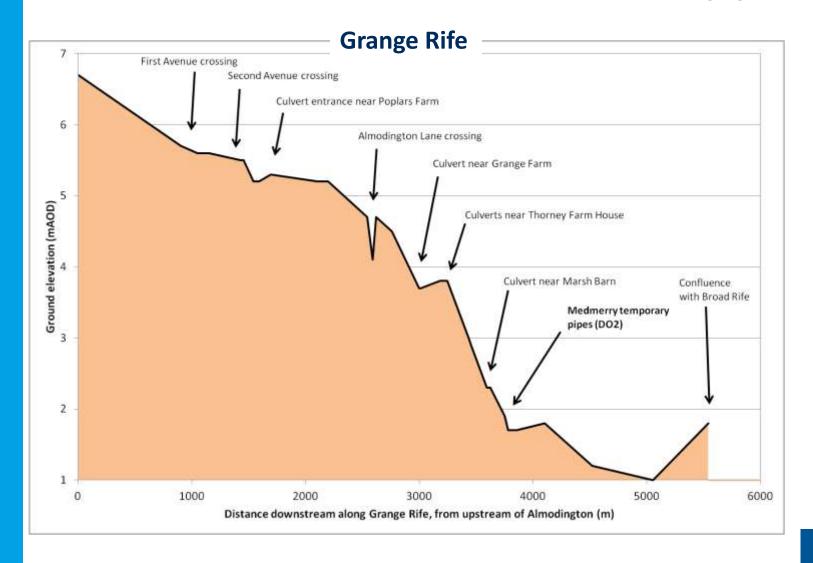


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BACKGROUND – GROUND LEVELS (2)

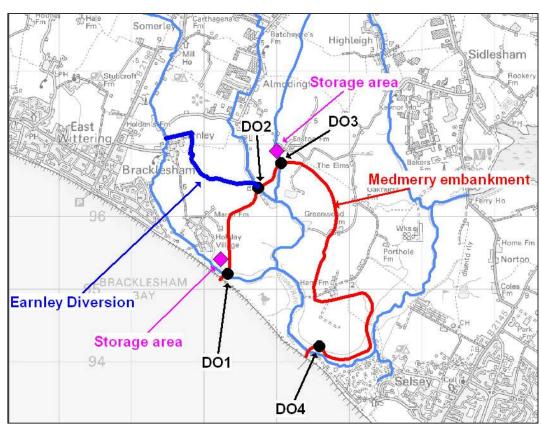


BACKGROUND – GROUND LEVELS (3)



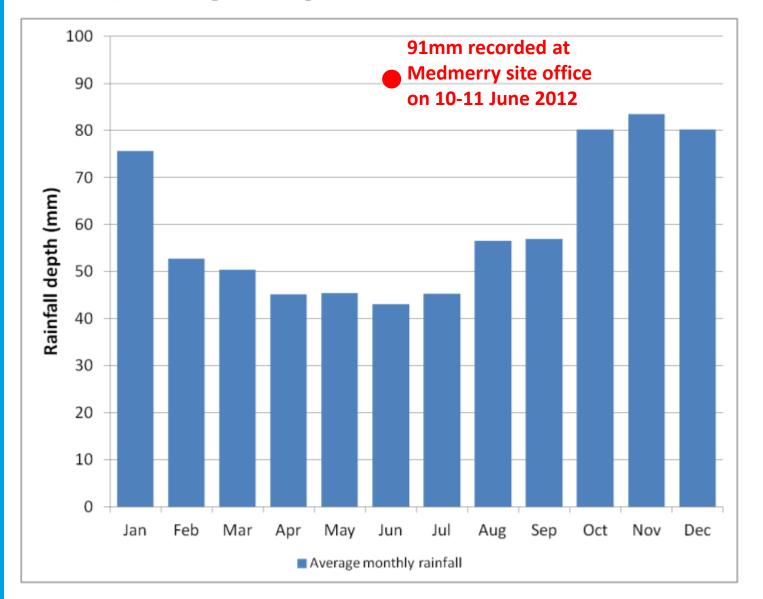
MEDMERRY MANAGED REALIGNMENT **SCHEME – LAND DRAINAGE ASPECTS**

- Four drainage outfalls
- Upstream storage on Earnley and **Easton Rifes**
- Earnley Diversion **Channel**
- Perimeter ditch

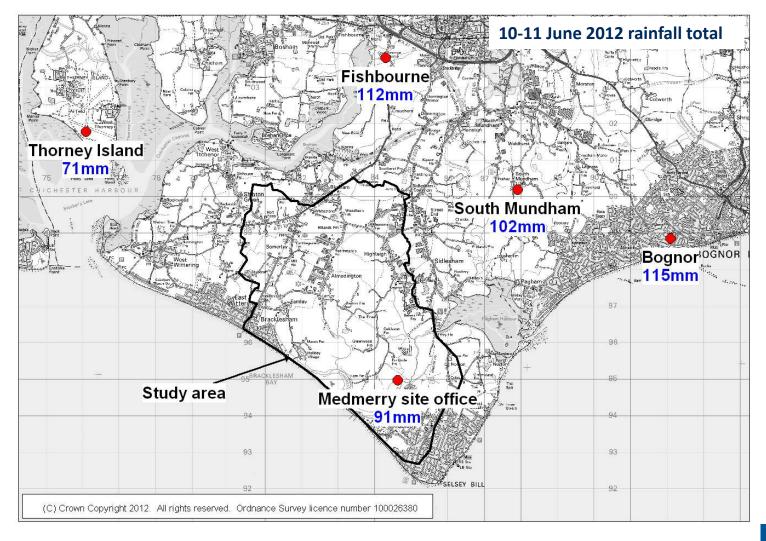


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AVERAGE MONTHLY RAINFALL

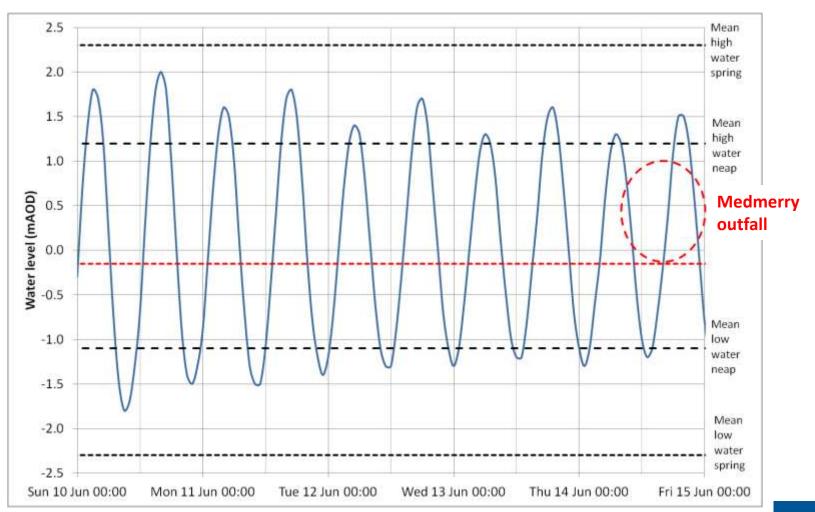


RAINFALL ON 10-11 JUNE 2012



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TIDE LEVELS 10-15 JUNE



DISCUSSION

