



**Pooling our Resources –The North of
England Floods: Flood Recovery and
Resilience**

**Marie Fallon
Environment Agency Area Manager
North East**

Winter Floods



Corbridge



Corbridge



Ovingham Caravan Park



Low Prudoe



Our Flood Defences

North of England floods: 5 December 2015 to 6 January 2016



12,500



properties protected by our flood defences since 5 December to Boxing Day (Storm Desmond)

10,900



properties protected by our flood defences since Boxing Day to New Year (Storm Eva)

Around
700



flood defence assets needing repair

2,300



metres of temporary barriers used to protect communities

Over
6,000



inspections of our defences and equipment in 2 weeks

150



communities visited by flood support officers

"I know the hard work isn't over for us but the clean-up operation is well underway along with the necessary repairs to defences. Looking ahead, we will take stock and reflect on lessons learnt in the way we always do after major incidents" **(Sir James Bevan, Chief Executive)**

NDT FLOODS WINTER 2015/16

13 pro-active press releases
36 interviews given
49 media enquiries
Multiple media briefings produced
Daily flood updates

Customer & Engagement
11 MP Briefings
11 Pop-up community meetings & public drop ins

“A massive thank you to all local, Northumberland emergency services, & Environment Agency staff who have worked tirelessly to keep us safe”

Guy Opperman MP



72 TWEETS TO
WARN & INFORM

73 TWEETS SHOWING
PRO-ACTIVE WORK

59 PICTURES & VIDEO
SHOWING WORK BY FCRM
& FIELD OPS

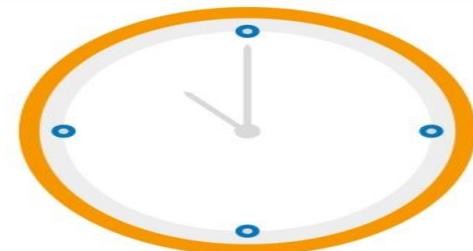
2450 RE-TWEETS FROM
RESIDENTS & PARTNERS



249
properties flooded

3572
protected

INCIDENT ROOM
OPEN FOR



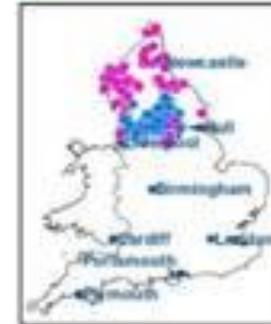
Over 100 hours

KEY PARTNERS
Guy Opperman MP
BBC
NCC
NHS England North
Northumbrian Water
Durham County
Council
ITV
Metro Radio

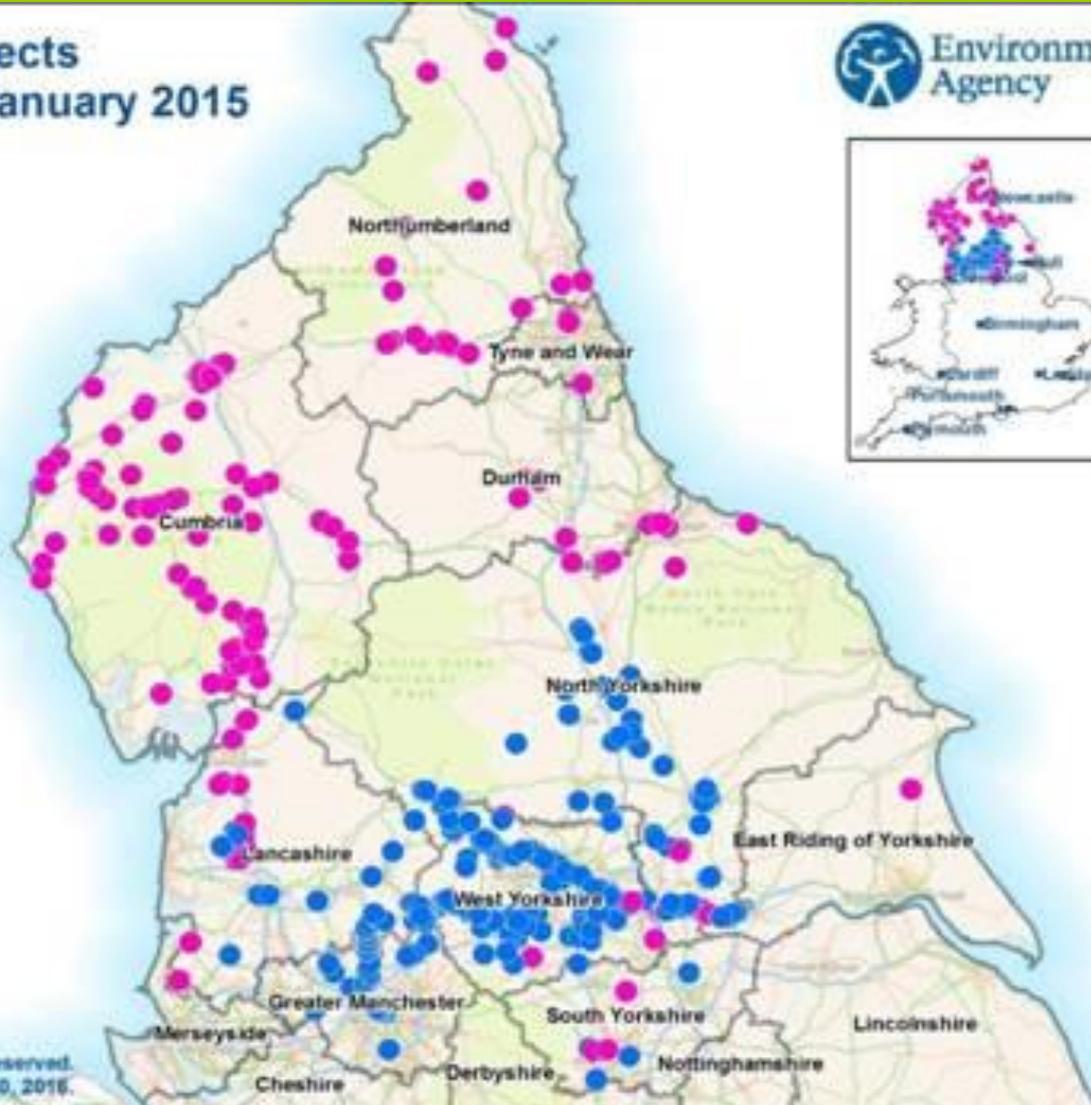


Recovery Projects

Recovery Projects
Compiled 15 January 2015



- Desmond
- Eva



Community Engagement



Case Study: Belford, Northumberland

- ➔ Village suffered five floods in two years
- ➔ Pioneering Natural Flood Management
- ➔ Methods included:
 - ➔ Barriers to slow flow;
 - ➔ Bunds



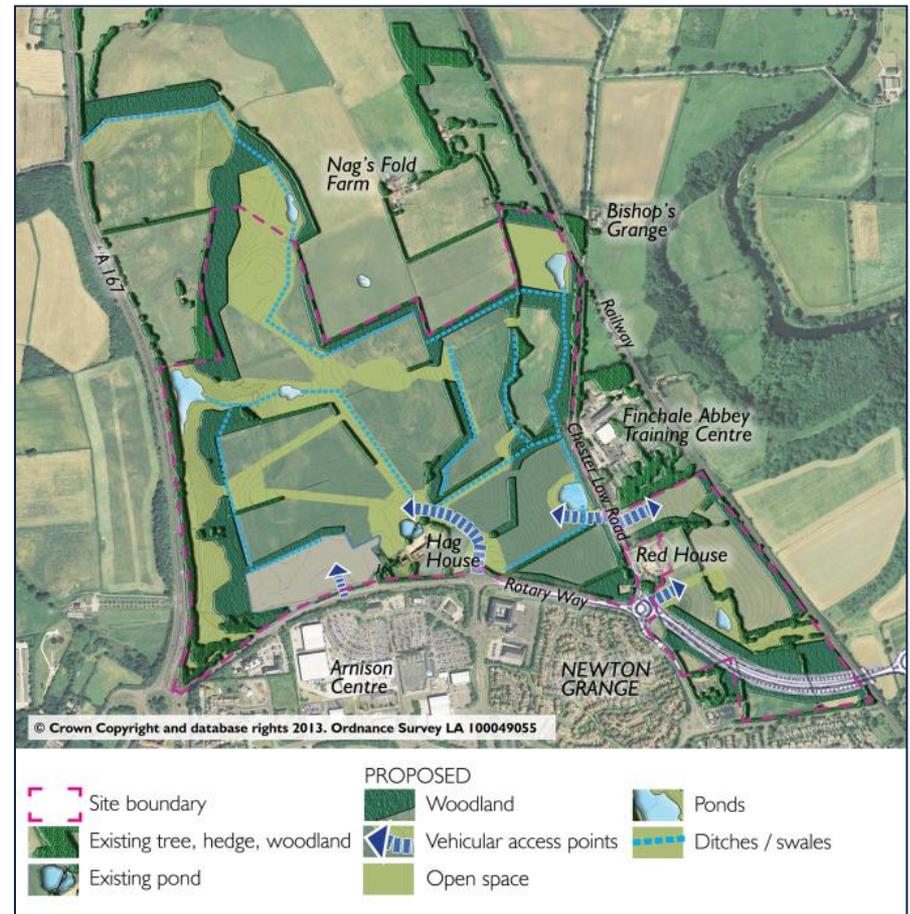
Case Study: Brunton Park

- ➔ Partnership between EA, NWL and NCC – could not be achieved individually
- ➔ Significant Community Engagement
- ➔ Multiple Benefits – Flood Risk Reduction, Water Quality and Ecology



Case Study: North of Arnison, Durham City

- 1000 houses on 84.5 hectares
- Supplementary Planning Document Drafted
- Main issues:
 - Surface Water Drainage existing & proposed;
 - Water Framework Directive;
- Considered as part of EA / DCC “Growth Ready” workshop



Case Study: North of Arnison, Durham City

- ➔ Strategic Drainage Masterplan to be undertaken
- ➔ Opportunities for managing existing / proposed surface water now a policy requirement



The Impacts of Silt on the Macro-invertebrate Community of Redhouse Gill and the River Wear

Making the most of the opportunity

- **Opportunities :**
 - Update of local plans and Community Infrastructure Levee
 - Building on WFD Catchment Pilots and NWL's Sustainable Sewerage Strategy
 - New SUDS requirements
- **Need:**
 - A multidisciplinary approach across a number of practitioners – to realise joint benefits
 - Consider new ways of working and funding models
 - Maximising funding contributions – developer contributions, FDGIA, Local Levy etc



