



Eston/Teesville NAP

Flooding – Saturday 1st April 2017

**Redcar and Cleveland Borough Council
Presentation 24th May 2017**



Saturday 1st April 2017 – pre - event

- No weather warnings issued
- The weather forecast was for sunny spells and scattered heavy, possibly thundery showers.
- No impacts expected.
- Culvert grid checks completed 2 weeks prior to the event.



Saturday 1st April 2017 – pre - event

- No escalation in Council resources deemed necessary.
- Council Borough Co-ordination Officer on duty 24/7.
- Highways Duty Officer on duty 24/7.
- Minimum 2 highways operatives on duty 24/7.
- Winter Maintenance plan still in place – 5 operatives on standby.



Saturday 1st April 2017 – Chronology of Event

- 14:40 – report of flooding on A174 Lazenby – crews deployed and stood down at 15:00. No action required.
- 14:30 – 16:15 – intense rainfall fell in localised areas within Redcar and Cleveland and Middlesbrough.
- 16:30 – Request from Emergency Planning Unit to attend locations suffering from flooding.
- 16:45 – Police Command Room set up and RCBC and Fire Brigade in attendance.
- 16:30 – 22:30 – Response and recovery to flood event



Saturday 1st April 2017 – Locations Affected

Flood Locations attended:-

- Burns Road, Teesville
- Flatts Lane at the junction of Hollywalk
- Sandsend Road, Whale Hill
- Tees Dock Road
- Maplewood, Teesville
- Cricket Lane, Normanby
- Charltons Village
- Redcar Road, Guisborough
- Carlyle Road, Eston



Saturday 1st April 2017 – Locations Affected

Flood Locations attended:-

- Morrison Road, Guisborough
- Church Lane, Eston
- Fernhill Road, Eston
- Stumps Cross, Guisborough
- Ripon Way, Eston
- Park Avenue, Teesville
- Eston High Street
- Meadowgate, Eston
- Fabian Road, near old town hall site



Saturday 1st April 2017 – Resources Used for Response

Resources deployed:-

- 2 no. gully cleaning vehicles
- 3 no. 7.5 tonne trucks loaded with cones, signs and sandbags
- 1 no. 3.5 tonnes truck fully loaded with cones and sandbags
- 7 no. operatives
- 2 no. works manager
- 1 no. Borough Co-ordination Officer



Saturday 1st April 2017 – Resources Used for Response

Resource Actions:-

- Deployed sandbags
- Provided traffic management for road closures
- Removed flood water where required
- Assisted residents with house clearance
- Removed debris from roads and footways
- Washed down areas with silt deposits
- Undertook road repairs caused by surcharging manholes



Saturday 1st April 2017 – Investigations

Investigations:-

- Met Office have confirmed that 1 week's worth of rain fell in 1 hour
- Northumbrian Water Limited have confirmed event was a 1 in 197 year storm
- All affected watercourses have been cleared of debris and inspected. Repairs undertaken on culvert at St Helen's Close
- All gullies cleaned at flooding locations – no issues reported
- Contacted developers on Fabian Road and High Farm
- Met with MP/Councillors



Saturday 1st April 2017 – Investigations

Investigations:-

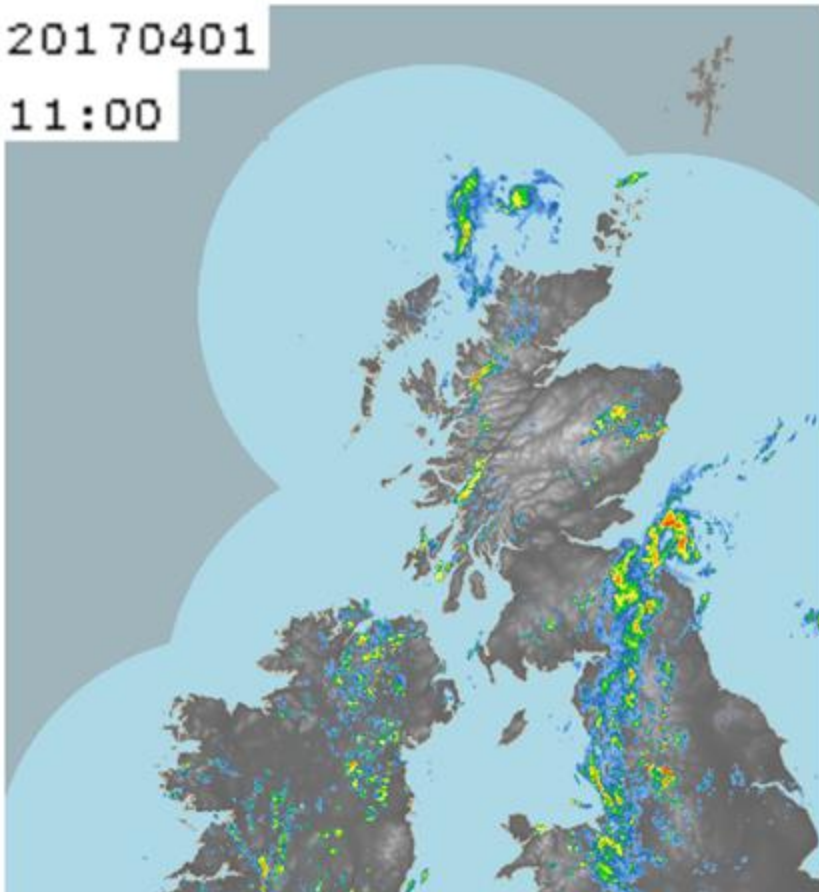
- Ground conditions were very dry prior to the event
- Exacerbated the speed of run off from land to watercourses
- Intensity of rainfall resulted in all drainage systems being inundated and overwhelmed.
- Continuing to work with NWL to establish if there was any issues with sewer network other than the point above.

Saturday 1st April 2017 – Investigations



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11:00



Very localised, heavy, thundery showers shown on radar imagery. The downpours were short-lived in any one location.

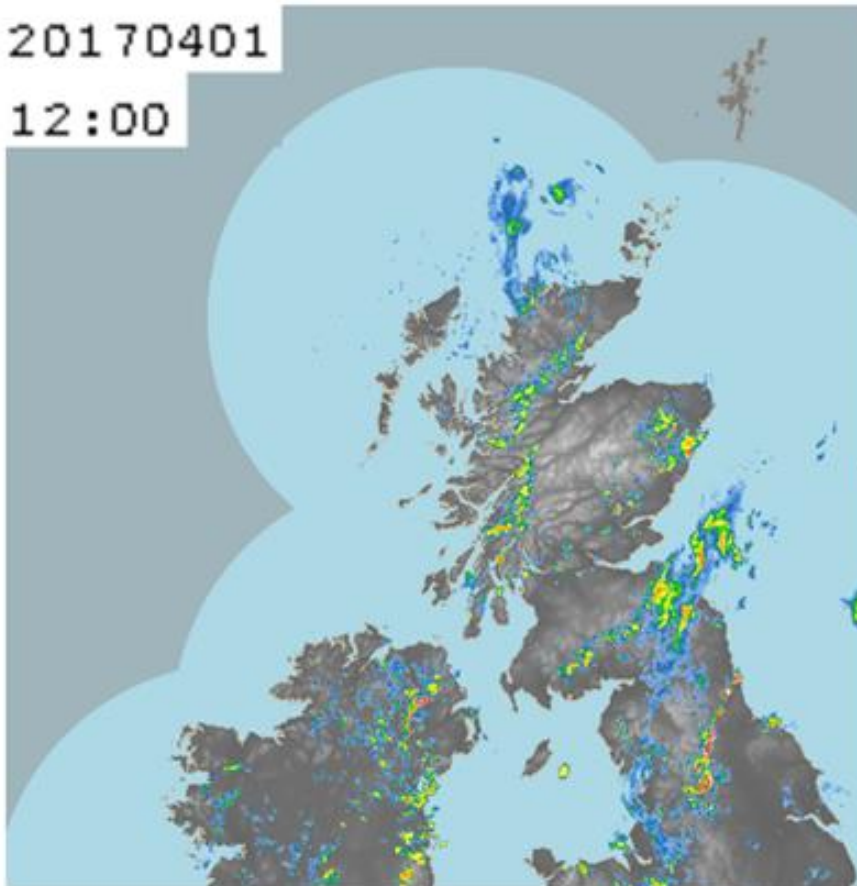
11:00 - area of rain much further to the north

Saturday 1st April 2017 – Investigations



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12:00



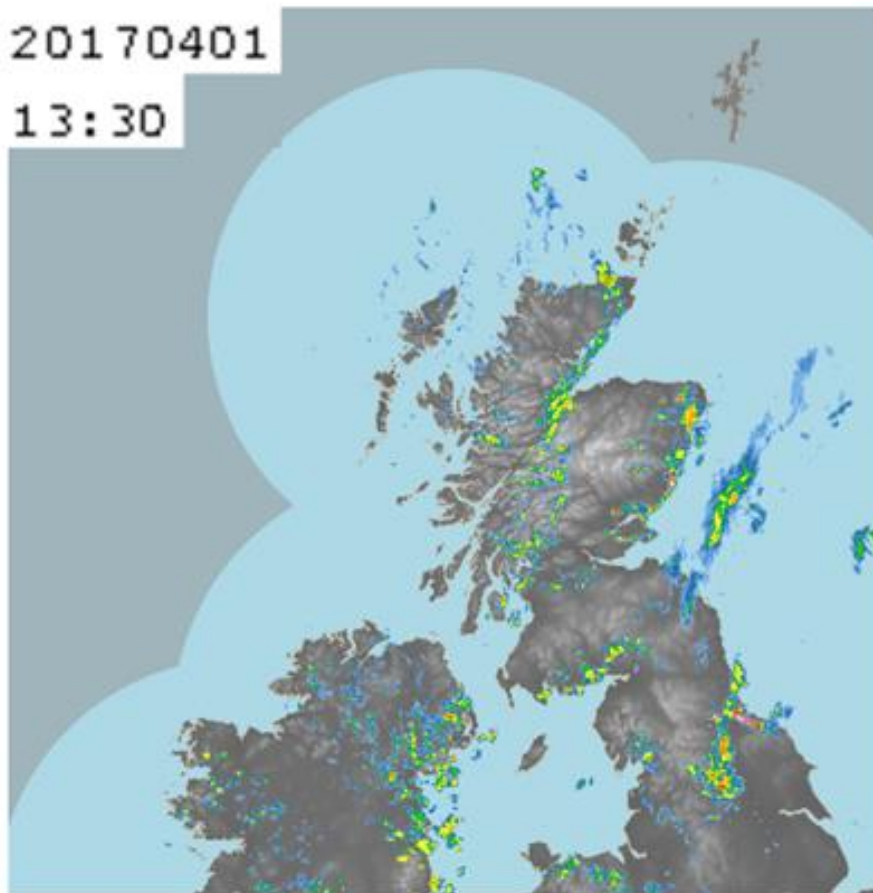
12:00 – Line of heavy showers develops in NE England

Saturday 1st April 2017 – Investigations

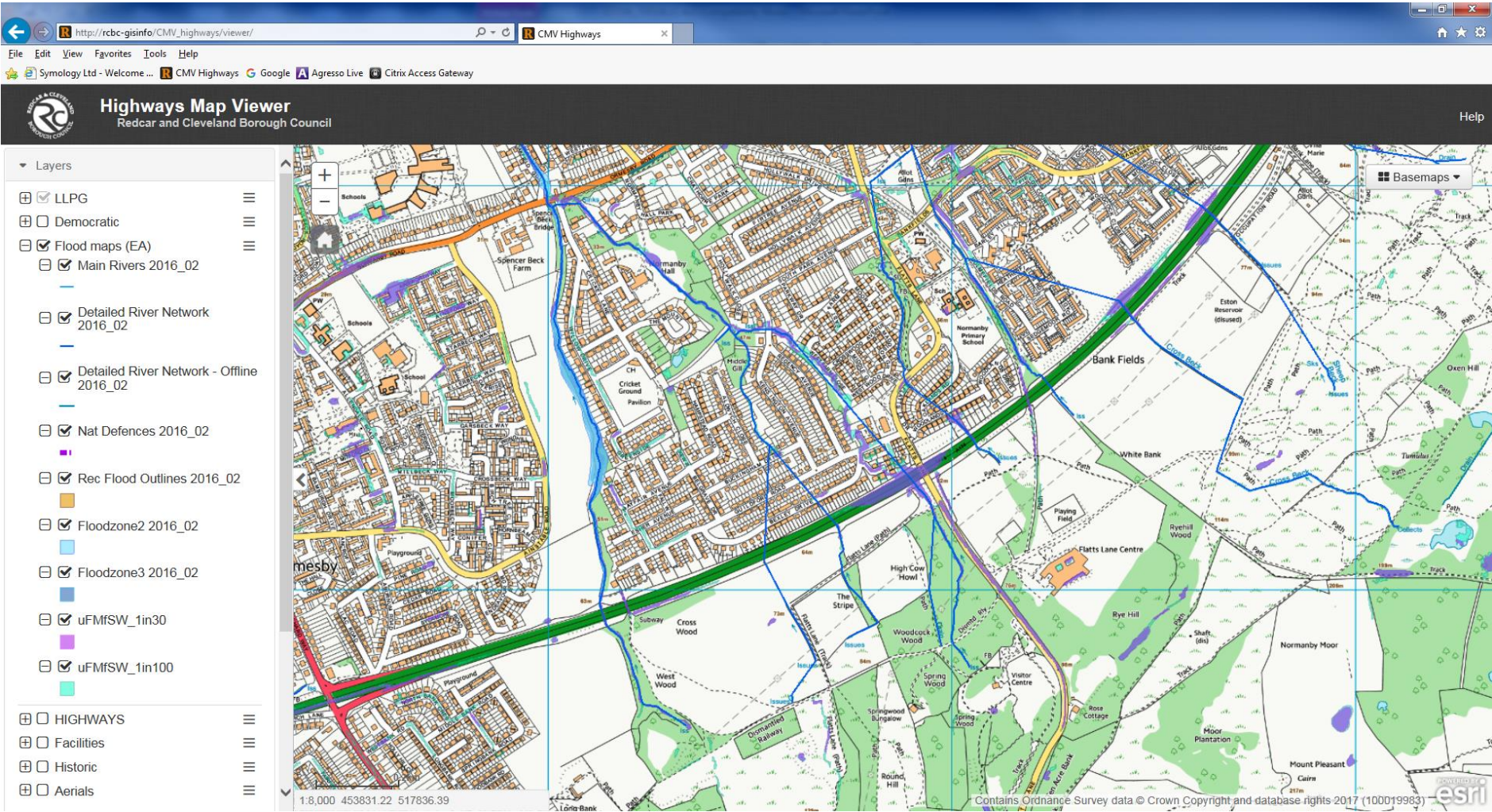


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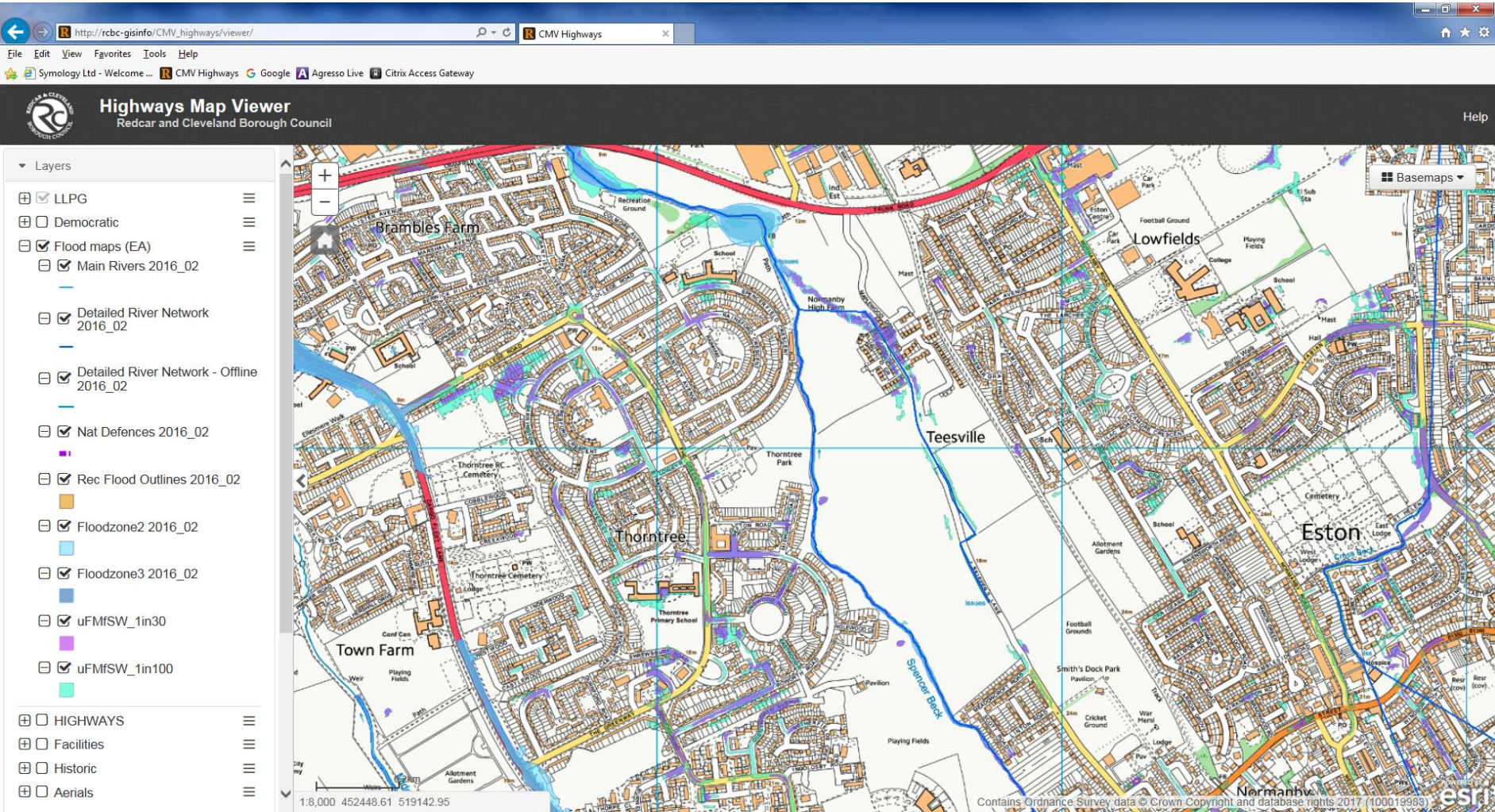
13:30



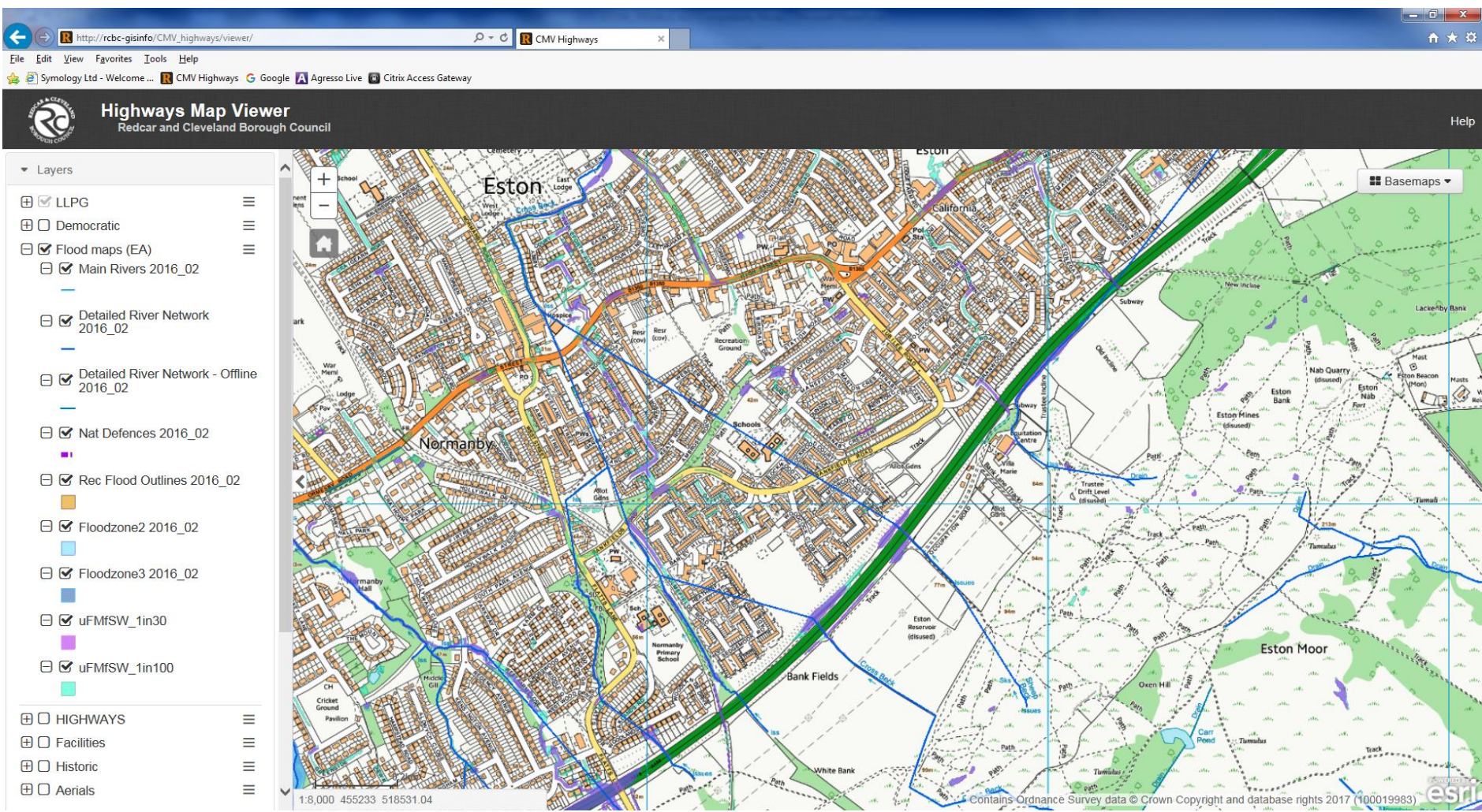
13:30 – Line of heavy showers intensifies as it moves towards Teesside.



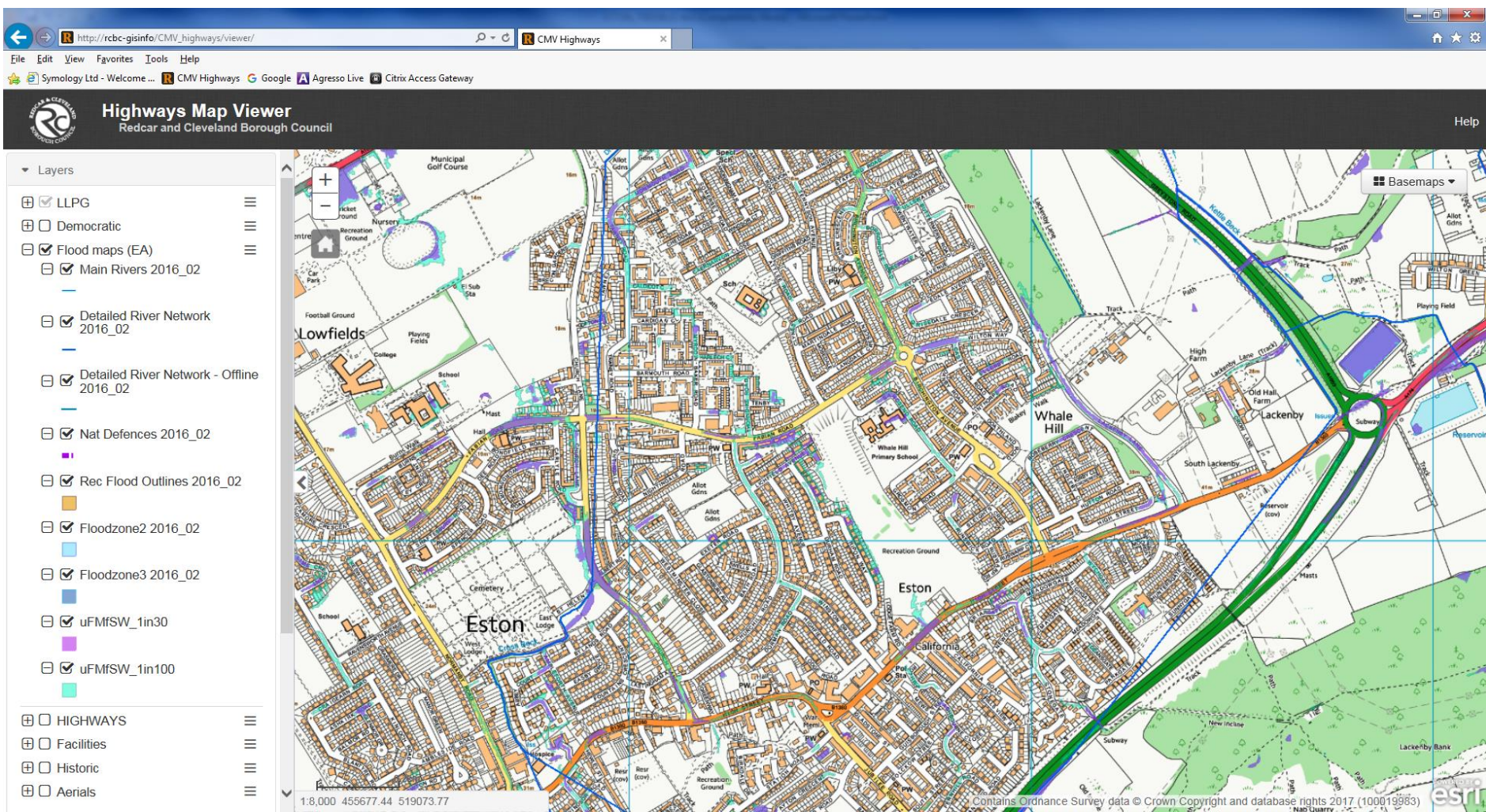
Normanby Area – Spencer Beck and numerous unnamed watercourses



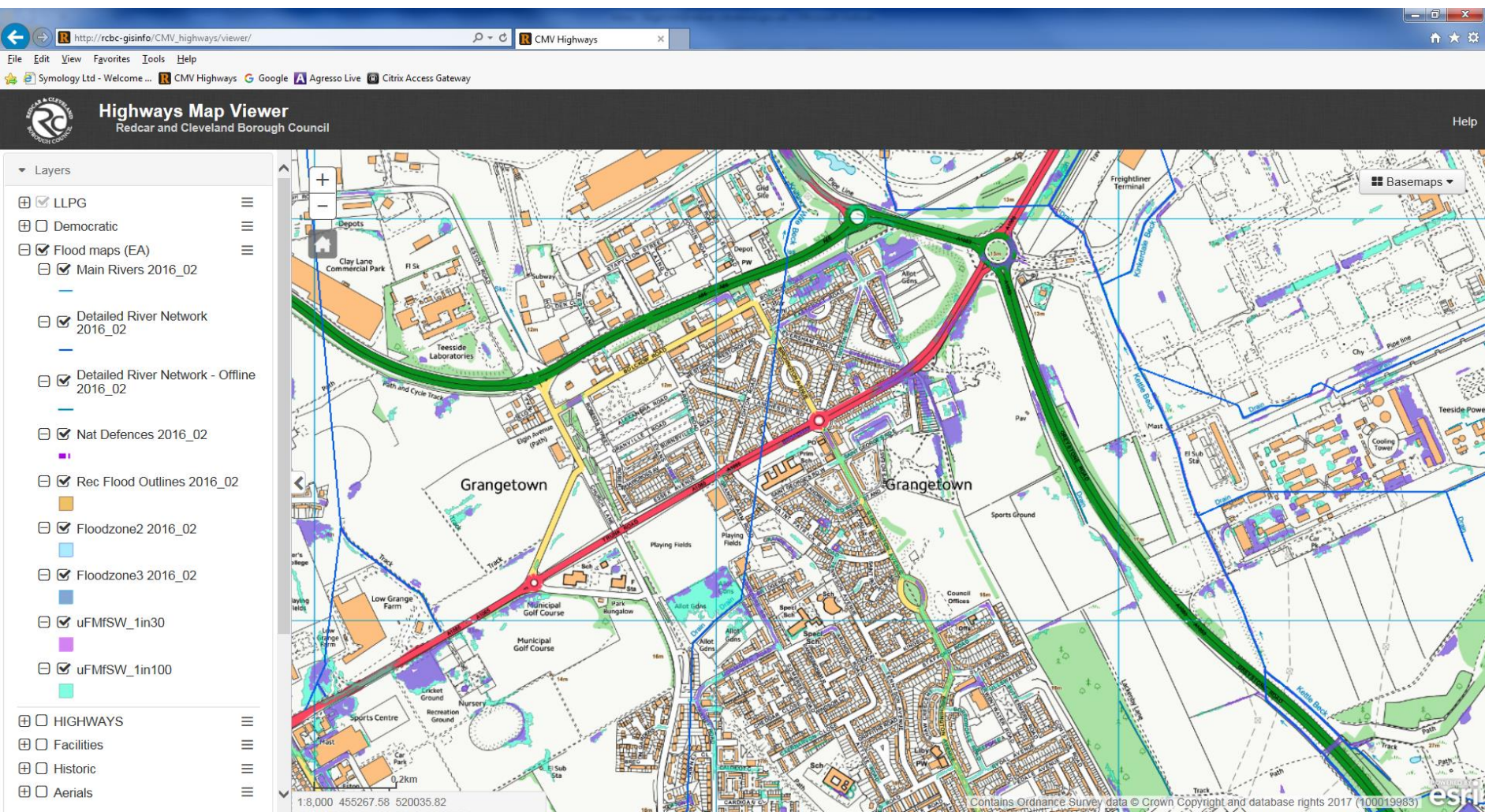
Teesville Area – Spencer Beck and unnamed watercourse (High Farm Site)



Eston Area – Cross Beck, Sheep Beck and numerous unnamed watercourses



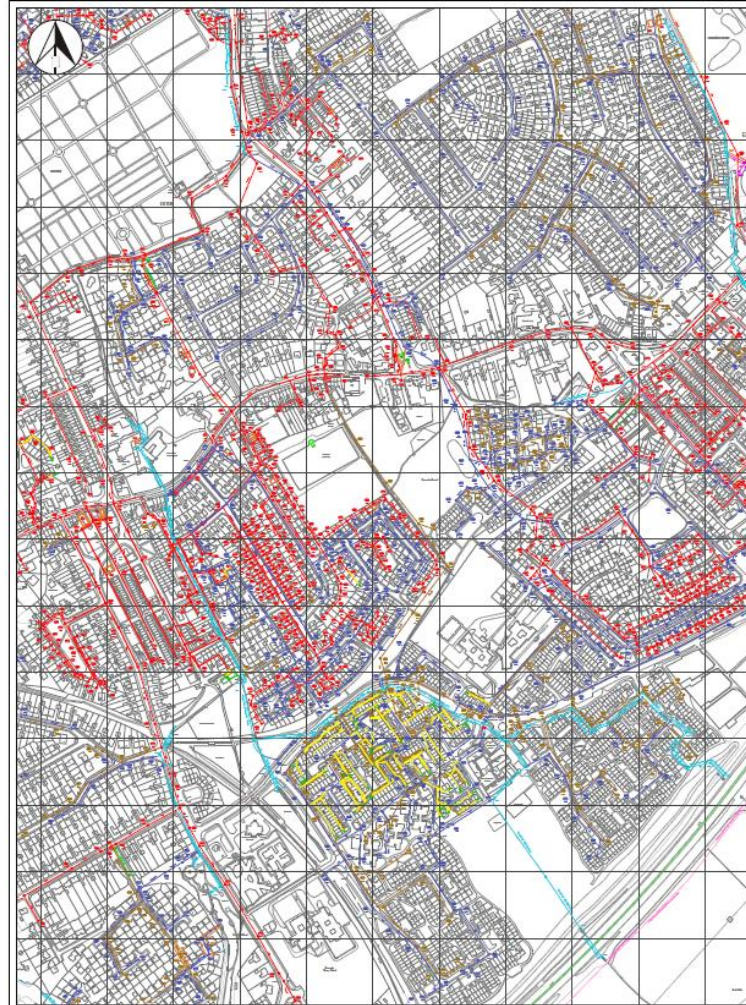
Cross Beck, Eston Tip Culverted Watercourse (Iron Ochre issues)



Cross Beck, Eston Tip Culverted Watercourse (Iron Ochre issues)

Saturday 1st April 2017 – Forward Programme

NWL
Sewer Map



Saturday 1st April 2017 – Forward Programme



- Church Lane / St. Helens Close – investigate potential new flood gates / improvements to Culvert inlet structure programmed (June)
- Flatts Lane, Normanby - Culverted Watercourse Cleaned & CCTV / Modelling programmed
- California Area / Rothwell Mews / Eston High St / Ripon Way / Tawney Rd area – Culverted Watercourse Cleaning, CCTV & Modelling programmed
- Carlyle Road, Eston – Highway drainage improvement scheme & Modelling programmed
- Meadowgate, Eston – Highway drainage improvement scheme programmed

Saturday 1st April 2017 – Forward Programme

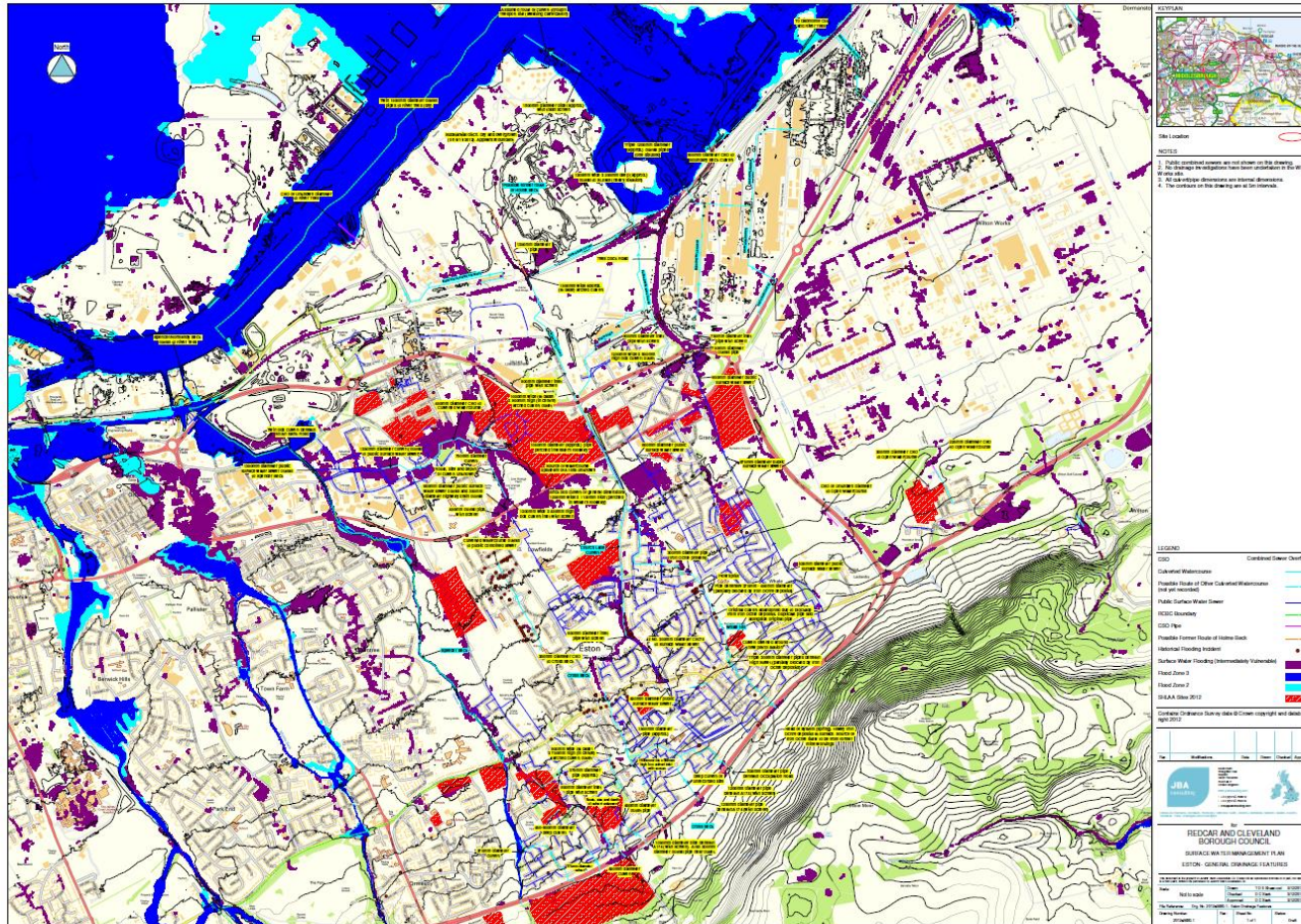


- Bolckow Rd / Church Lane – ongoing investigation with NWL
- Annual Programme for cleaning Cross Beck Culverted Watercourse through Eston area

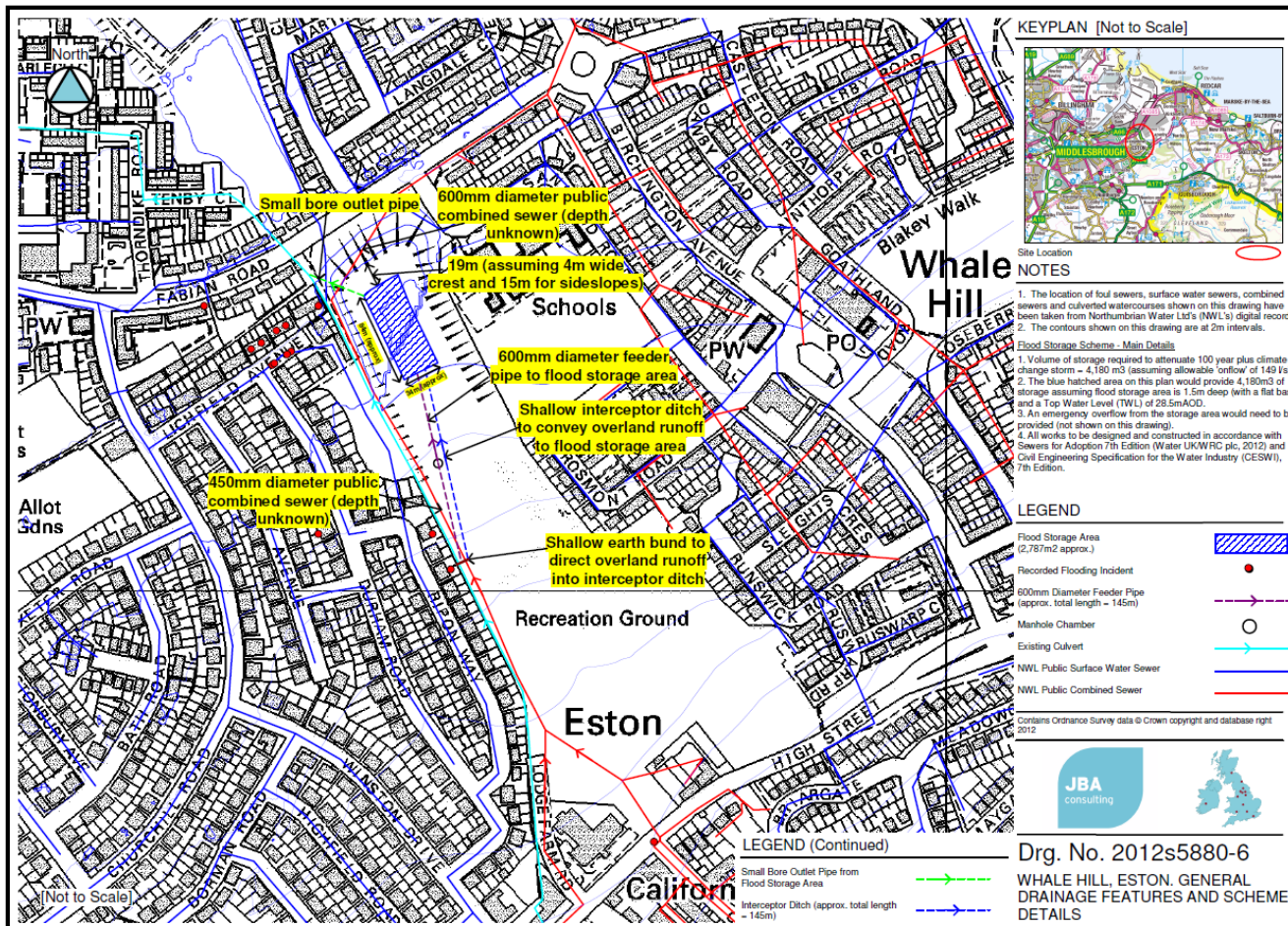
EA Medium Term Plan – 6 year programme (Year 2)

- Cross Beck inland flood alleviation Scheme £1.5m
- Whale Hill Ironstone Culvert Scheme £2.8m
- Coal Board 12 month feasibility study ongoing
- Flatts Lane Culverted Watercourse Improvements

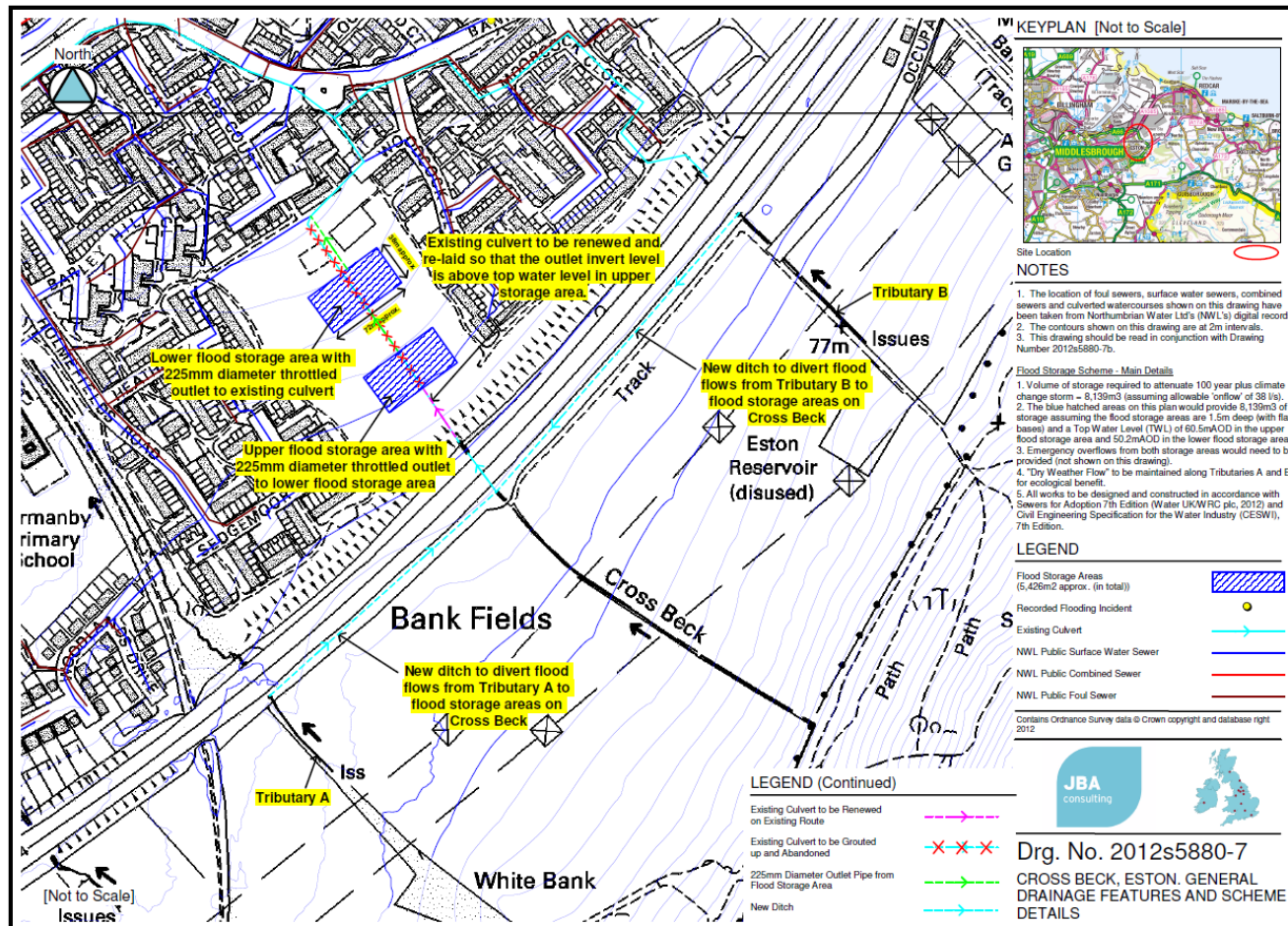
Saturday 1st April 2017 – Forward Programme



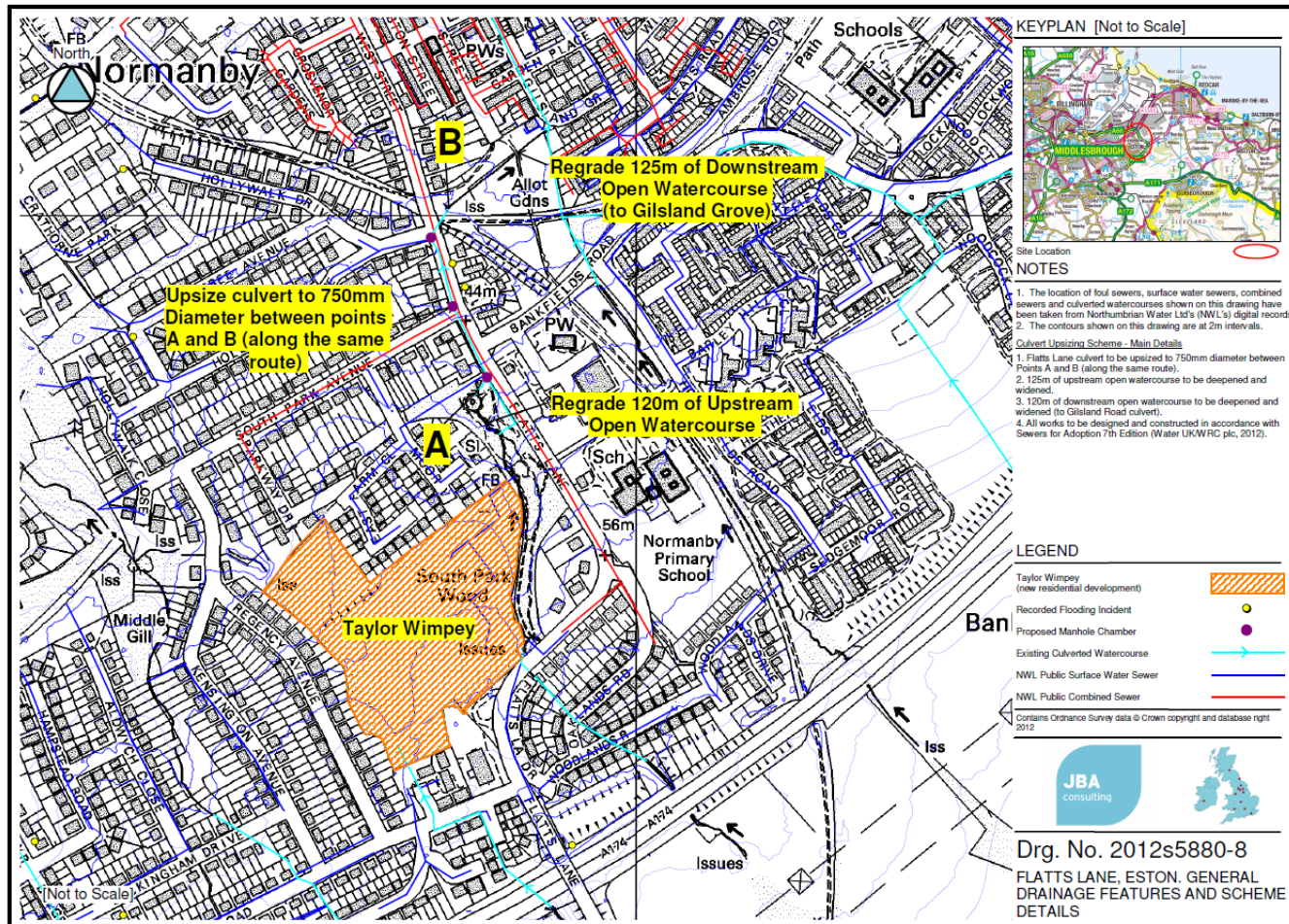
Saturday 1st April 2017 – Forward Programme



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- Hagg Farm Mine Water Treatment Scheme



Saturday 1st April 2017 – Forward Programme



- Hagg Farm Mine Water Treatment Scheme



Saturday 1st April 2017 – Lessons Learned



- Review being undertaken in terms of Council response to the event
- Clear up of areas should have been undertaken much sooner
- Increase frequency of grid checks when in dry conditions
- Councillors to be provided with direct contact details of officers who would deal with such events



Any questions?

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this is

Redcar & Cleveland



this is **our vision and values:**

our vision: To have "an excellent environment for everyone living, learning, working and visiting here".

our values:

- Openness, fairness and accountability
- Involving and listening to citizens
- Valuing our people
- Continuous improvement



this is **Redcar & Cleveland**