

Improvement and Scrutiny Committee

16th November 2022

Drainage and Flood Risk

Richard Ward – Senior Project Engineer (Drainage and Flood Risk)

Roles and Responsibilities

Flood Risk Management

- Planning consultations
- Flooding enquiries
- Promote and deliver flood mitigation schemes
- Land Drainage Consenting

Highway Drainage

- Manage and maintain the highway drainage network eg; Gully cleansing, drainage repairs etc.
- Capital schemes to reduce highway flooding.

Previous Improvement and Scrutiny Committee (February 2022)

- Lessons Learned from previous flooding events
- Customer Satisfaction with flooding services responses
- Local Flood Risk Management Strategy review
 - Update – LFRMS review will now be submitted to cabinet in April 2023

Today

- Achievements over the past 12 months
- Community flood resilience
- Next 12 months and beyond
- Future challenges

Achievements over the past 12 months

DEFRA Property Resilience Fund

- 82 properties across Derbyshire who have received funding for flood resilient products for there properties
- £375,000 in grant funding awarded to both residential and commercial properties

Flood Mitigation Schemes

- Renishaw Property Flood Resilience Scheme
- Grassmoor Country Park Natural Flood Management Scheme and others.

Highway Drainage

- Proactive maintenance regime introduced on culverts, trash screens, ditches and pumping stations
- Awarded long term cyclical gully cleansing contract
- Backlog of drainage works have now all been actioned (over 1200 separate jobs have been issued from this backlog)

Achievements over the past 12 months (cont'd)

- 739 Planning consultations responded to
- 370 Flooding enquiries dealt with
- 20 Land Drainage Consents approved

Renishaw Property Flood Resilience Scheme



Flood Door



Flood Barrier



Non-Return Valve



Air Brick

Grassmoor Country Park - Natural Flood Management Scheme



Individual and Community Resilience

- One of the key objectives in the Local Flood Risk Management Strategy is around individual and community “Resilience”
- Derbyshire and other Risk Management Authorities cannot deliver flood mitigation to every property or business in Derbyshire at risk from flooding, it is simply not sustainable in the short, medium and long term (capacity, funding, skills)

Resilience Initiatives

- Flood Warden Groups
- Flood Warden Community Signage Scheme
- Community Led Flood Mitigation Projects
- Training, Education and Engagement Sessions

Next 12 months and beyond

- Local Flood Risk Management Strategy review to be completed
- DCC Flood Mitigation schemes – eg; Breadsall, Ockbrook, Buxton, Eyam/Stoney Middleton, Alfreton and others (subject to funding)
- Collaboration schemes – Ilkeston and Melbourne flood mitigation schemes with Severn Trent Water (combined value £52 million) and Community Property Flood Resilience Schemes (working with the EA in Bakewell and Bullbridge to protect around)
- New long term highway gully cleansing contract (providing efficiencies and savings)
- Highway drainage and flood risk team to work more collaboratively, to achieve efficiencies, and increase effectiveness in terms of reducing the flood risk in line with Derbyshire highways transformation
- Promote further individual and community resilience initiatives

Next 12 months and beyond (cont'd)

- Hydraulic modelling and studies eg; Matlock flood model.
- Delivery of the highway drainage capital improvement programme
- SuDS for Schools bid
- Continue to ensure all major development is completed in accordance with relevant technical standards, to ensure no development increases flood risk
- Continue to provide advice to owners of drainage systems and ordinary watercourses, to ensure they are properly maintained

Future Challenges

- Climate Change
 - The most recent decade (2009-2018) has been on average 1% wetter than 1981-2010 and 5% wetter than 1961-1990 for the UK overall
 - Winter rainfall is expected to increase significantly and Summer rainfall is expected to decrease significantly, albeit there may be more intense storms in the Summer.

(Source – UK Climate Projections July 2021)

- Funding
- Capacity to deliver service
- Recruitment and skills
- Managing customers expectations