

DUTY TO INVESTIGATE
SECTION 19 ON-GOING INVESTIGATIONS

| Date | Location | Town | Division | Contact Officer | Description of Flooding | No of Properties internally Flooded | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Proposed Action/Works | Promoter |
|-----------|---|------------|----------|--|---|-------------------------------------|---|--|--|----------|
| 28-Jun-12 | East Street and Stanhope Road Area | Horncastle | East | Dean Myhill Area Highways Manager East Division Northern Area | Extreme rainfall (estimated to be a 1 in 50 year event) caused overland and highway surface water flows to collect at the low area of East Street and Stanhope Road. The extreme rainfall overwhelmed the highway drainage system which was also suffering from surcharged outfalls due to high river levels. | 2 | LCC - Yes | LCC have undertaken a CCTV survey of the highway drainage system in the area which has identified some minor defects and obstructions which will be addressed. LCC have also undertaken initial modelling work to help understand and assess the surface water flood risk in Horncastle. A further meeting with Anglian Water is to be arranged, and a bid for an overall surface water study for Horncastle is being submitted by LCC. | Meeting with Anglian Water to be arranged Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17 | LCC / AW |
| 28-Jun-12 | West Street | Horncastle | East | Dean Myhill Area Highways Manager East Division Northern Area | Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from adjacent school field, hillside and Lincoln Road. The surface water collected at the bottom of the hill causing flooding to the Grammar School and adjacent properties in West Street. | 3 | LCC - Yes Anglian Water - Yes | LCC have undertaken a check of the highway drainage system in West Street and have cleaned out a number of gullies and removed the blockages. LCC have also undertaken initial modelling work to help understand and assess surface water flood risk in Horncastle. A bid for an overall surface water study for Horncastle is being submitted by LCC. | Blockages removed and gas main relocated Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17 | LCC |
| 28-Jun-12 | South Street and Bull Ring | Horncastle | East | Dean Myhill Area Highways Manager East Division Northern Area | Extreme rainfall (estimated to be a 1 in 50 year event) caused overland and highway surface water flows to collect at the low area of the Bull Ring and South Street overwhelming the Anglian Water sewer systems, which were also suffering from surcharged outfalls due to high river levels. | 3 | Anglian Water - Yes LCC - Yes | Whilst the flooding was caused by extreme rainfall and overland flows, LCC have undertaken a CCTV survey of the underground surface water systems. This has revealed a number of condition concerns in relation to a brick culvert system owned by Anglian Water. The report has been passed to Anglian Water in order that they consider future action and repairs. LCC have in addition carried out repairs to gullies and connections in South Street. LCC have also undertaken initial modelling work to help understand and assess surface water flood risk in Horncastle. A bid for an overall surface water study for Horncastle is being submitted by LCC. Anglian Water works to clear blockages have been completed. Planned Environment Agency works regarding outfall issues and river levels may reduce issues. | LCC Gullies and system checked and repaired. Anglian Water checking Surface Water systems (ongoing) Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17 | LCC |
| 28-Jun-12 | Langton Hill | Horncastle | East | Dean Myhill Area Highways Manager East Division Northern Area | Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent hillside and agricultural land, which was not contained by the interceptor ditch. Combined overland and highway surface water overwhelmed both the highway and surface water sewer drainage systems on Langton Hill and West Street, and caused flooding at the bottom of the hill. | 3 | LCC - Yes Anglian Water - Yes Witham 3rd IDB - Yes | A full drainage survey has been carried out and significant blockages have been removed from both the highway drains and Anglian Water's surface water sewers. The survey has identified a number of areas of damage to both systems. LCC has repaired the highway drainage system, and the survey has been forwarded to Anglian Water for assessment of their surface water sewers. The Witham 3rd Internal Drainage Board is ensuring that ditches are cleared by respective riparian land owners. LCC and Anglian Water have completed works to clear blockages and repair damaged sections. | Highway drainage system repaired and functioning. Anglian Water assessing the Surface water system (by Autumn 2013) Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17 | LCC |
| 28-Jun-12 | Mark Avenue, Accommodation Road and Prospect Street | Horncastle | East | Dean Myhill Area Highways Manager East Division Northern Area | Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent hillside and agricultural land. This was exacerbated by the interceptor ditch being restricted at its entrance to the culvert system, which caused flooding to properties in Mark Avenue, Accommodation Road and Prospect Street. | 14 | Anglian Water - Yes Witham 3rd IDB - Yes East Lindsey District Council - Yes | Whilst the flooding was caused by extreme rainfall and flows from adjacent land, investigations revealed an intercepting ditch which flows into a culverted watercourse which is shown on Anglian Waters records. East Lindsey District Council has cleared the culvert and trash screen. LCC have also undertaken initial modelling work to help understand and assess surface water flood risk in Horncastle. Ditches have been cleaned out and discussions are ongoing between Anglian Water and Witham 3rd Internal Drainage Board regarding ownership. A bid for an overall surface water study for Horncastle is being submitted by LCC. | Ditches cleaned out. Discussions ongoing between Anglian Water and Witham 3rd IDB regarding ownership Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17 | LCC / AW |

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| 28-Jun-12 | Bowl Alley Lane | Horncastle | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent school field and Bowl Alley Lane. The surface water collected at the lowest point causing flooding to the adjacent properties in Bowl Alley Lane. | 3 | Anglian Water - Yes LCC - Yes | Whilst the flooding was caused by extreme rainfall and overland flows, LCC have undertaken a CCTV survey of the underground surface water systems. This has revealed a number of condition concerns in relation to the system owned by Anglian Water. The report has been passed to Anglian Water in order that they consider future action and repairs. In addition, LCC is planning to install additional drainage protection features in front of the affected properties, and is in discussion with the school with respect to intercepting flows from the school car park. A bid for an overall surface water study for Horncastle is being submitted by LCC. Anglian Water are awaiting the new financial year to see if funding is available to resolve their issues. | Meeting with Anglian Water to be arranged Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16 | LCC / AW |
| 28-Jun-12 | Main Road/Station Row | New Bollingbrooke | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Extreme rainfall (estimated to be a 1 in 40 year event) caused highway surface water flows to collect in the low area of Main Road/Station Row overwhelming the highway drainage system in the footway. | 7 | LCC - Yes | LCC has investigated the drainage and found blockages/damage due to buildings and tree roots. A solution to rectify the damage is being designed and costed. | System found to be damaged by buildings/trees and a new outfall is required. Solution being designed and costed | LCC |
| 28-Jun-12 | Horncastle Road adjacent old railway line | Roughton Moor | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Metalling works to the Spa Trail has affected the natural overland flow routes. This has caused surface water to be trapped on the south side of the trail, which has caused flooding to one property. | 1 | LCC - Yes | A temporary relief trench has been cut and boarded. LCC is designing a solution as the Spa Trail upgrade has affected the natural overland flow route. | TSP designing a solution as Spa Trail upgrade has cut off the natural flow path. | LCC |
| 28-Jun-12 | Sunningdale Close | Skegness | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Extreme rainfall caused highway surface water flows to bypass kerb gullies and collect in the low area of Sunningdale Close. Overland flows from the rear of the houses also contributed to the flooding. | 4 | LCC - Yes Anglian Water - Yes East Lindsey District Council - Yes | East Lindsey District Council have installed new gullies and connections which discharge into the Anglian Water surface water system (the capacity of which has been checked and found to be acceptable). | Capacity issues checked and found to be acceptable (ELDC installed new gullies £5k) | LCC |
| 28-Jun-12 | Ings Lane | Toynton St Peter | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Extreme rainfall caused overland flows to surcharge a number of watercourses in the area resulting in flooding to a low lying property in Ings Lane. | 1 | Witham 4th IDB - Yes LCC - Yes | It is recommended that a new watercourse be cut to the south to divert flows from Toynton St Peter away from the flooded property. Witham 4th Internal Drainage Board is considering a scheme. However, this is likely to be a low priority due to; the cost, legal issues and minimal benefits. | With Witham 4th IDB. Potential for a scheme to progress low. Expensive solution £100k, legal issues, minimal benefit) Investigation works programmed for 2016/17/18. Works proposed 2018/20 | Witham 4th IDB |
| 28-Jun-12 | Albany Road | Woodhall Spa | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Heavy rainfall caused surcharging of the highway drainage system (which flows into Tattershall Road) causing backflow into Albany Road. This together with the flows collected from Albany Road were unable to enter the watercourse crossing Albany Road and the watercourse to the rear of Witham Road (due to a combination of blocked watercourses and partially blocked culvert crossing Albany Road). | 5 | Witham 3rd IDB - Yes LCC - Yes | Witham 3rd Internal Drainage Board has instructed a developer to clear the ditches; to the rear of Witham Road, and leading to the culvert crossing Albany Road. LCC has cleared the culvert from its outfall to Albany Road and are investigating the short section of culvert under Albany Road with a view to upsizing (feasibility and design in progress). In addition, LCC plan to install a new section of pipe work and gullies outside the affected properties to drain to the culvert. Residents have also cleared the ditch to the south of Albany Road. | Culvert being designed by TSP (Feasibility) | LCC |
| 29-Jun-12 | The Esplanade | Chapel St Leonards | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Surcharging from the highway drainage system due to blockages within the system, root ingress and possible concerns over the number of gullies. | 2 | LCC - Yes | LCC has investigated the highway drainage system and undertaken a CCTV survey which indicates blockages and root infestation. Gullies and connections have been jetted. Further work is planned to clear roots and blockages within the system, and install additional gullies. The improvement scheme is currently being designed and costed. | Scheme being designed and costed | LCC |

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| 28-Jun-12 | Fairfield Avenue | Chapel St Leonards | East | Dean Myhill Area Highways Manager East Division Northern Area | Surcharging of Anglian Water surface water system due to displaced pipe work, and possible concerns over capacity. | 1 | Anglian Water - Yes | Surcharging of Anglian Water surface water system due to displaced pipe work and possible concerns over capacity. | All works completed Nov 2013 | AW |
| 28-Jun-12 | Main Road | Saltfleet | East | Dean Myhill Area Highways Manager East Division Northern Area | Soil and vegetable matter washing into the channel in front of the property causing blockage to the adjacent gully. | 1 | LCC - Yes | Soil and vegetable matter washing into the channel in front of the property and caused blockage to the adjacent gully. | All works completed Nov 2013 | LCC |
| 29-Jun-12 | Pump Lane | Saltfleet | East | Dean Myhill Area Highways Manager East Division Northern Area | Overland and highway surface water flows entering low lying property due to collapsed and silted surface water drainage system. | 1 | East Lindsey District Council - Yes | Overland and highway surface water flows entering low lying property due to collapsed and silted surface water drainage system. | New gullies installed Nov 2013 | LCC |
| 28 Jun 12 6 Jul 12 | Riverhead Terrace, Louth | Louth | East | Dean Myhill Area Highways Manager East Division Northern Area | During heavy rainfall (estimated to be a 1 in 60 year event) flooding took place in Riverhead Terrace due to overland flows from adjacent Riverhead development, and flows from the Terrace area being unable to escape. | 9 | East Lindsey District Council - Yes Anglian Water - Yes | Development has taken place to the east and north of Riverhead Terrace, which is partially complete. The new development is significantly higher than the Terrace, and has severed the natural drainage and flow routes from Riverhead Terrace, such that surface water from the Terrace and land to the north is trapped against the new development. The only means of surface water disposal from Riverhead Terrace is now via a combined gravity system with an assisted foul pumping station. The pumping station was installed, subsequent to development, at the east of Riverhead Terrace. It is unlikely that this foul pumping station will have the capacity to deal with surface water flows from Riverhead Terrace and its catchment area. | ELDC commissioned a study which has commenced and the report expected August. Further action dependant on findings. | ELDC |
| 28-Jun-12 | Station Road | Wainfleet | East | Andrew Ratcliffe Area Highways Manager East Division Southern Area | Internal flooding to four properties, during intense rainfall, due to inoperative highway drainage system. This was caused by damage from utility companies and the outfall/ditch not being maintained. | 4 | LCC - Yes | LCC should clean all gullies and restore the highway drainage system and ensure these are running efficiently to the River Steeping. Further monitoring should be carried out. | LCC have cleaned all gullies, restored the highway drainage system and ensured they are running efficiently to the river steeping - monitoring required | LCC |
| 28-Jun-12 | Sunningdale Drive | Skegness | East | Andrew Ratcliffe Area Highways Manager East Division Southern Area | Intense rainfall overwhelmed AWA surface water sewer system causing internal flooding to one property. | 1 | AWA - Yes | Investigations by AWA discovered three blockages/damage to the main surface water sewer on Sunningdale Drive, due to incursions from other utility companies. | Blockage/damage s have now been repaired by AWA and private drainage system cleared. AW have applied for funding to CCTV survey the remainder of the system | AWA |
| 28-Jun-12 | Station Road | Firsby | East | Andrew Ratcliffe Area Highways Manager East Division Southern Area | Following intense rainfall water from the B1195 Station Road passed over a covered Highway gully down the drive of and flooded a residential property | 1 | LCC - Yes | LCC have uncovered gully, resident advised to consider providing drainage to the front of their property, to increase protection. LCC to consider raising kerbs. | Defective gully uncovered - LCC to consider raising kerbs | LCC |
| 28-Jun-12 | Shop Lane | Goulceby | East | Dean Myhill Area Highways Manager East Division Northern Area | Overland flows from the adjacent hillside and agricultural land has been exacerbated by the overgrown/silted interceptor ditch, and the inlet to the culvert system being restricted by debris and silt. The combined flows caused flooding to a property opposite and lower than the restricted culvert/ditch system. | 1 | Lincolnshire County Council Yes | During and following the incident the ditch underwent some clearance work by the resident of the flooded property. Witham 3rd IDB to ensure regular effective maintenance to the Riparian ditch to the North of Shop Lane under the extended enforcement powers. | All works completed Nov 2013 | Witham 3rd IDB, LCC |

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| 28-Jun-12 | Brick Yard Lane | Hundleby | East | Andrew Ratcliffe Area Highways Manager East Division Southern Area | Overland flows from agricultural Land surcharged culvert under Brick Yard Lane (reported 9th May 2013 by IDB) which is a private road | 1 | None | Its recommended that the 300mm dia culvert under Brickyard Lane be checked for condition and cleared by the private owner. Consideration may be given to installing alarger culvert - this would require concent from Witham 4 IDB. All unmaintained ditches should be cleared out. | Private ownership | Private |
| 06-Jul-12 | Croft Bank | Croft | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Overland and highway surface water flows entering property access due to low kerb threshold. | 1 | LCC - Yes | LCC has investigated and undertaken reshaping works to divert flows away from the property access. | LCC have investigated and undertaken reshaping works to divert flows away from property access. | LCC |
| 06-Jul-12 | Mumby Road | Huttoft | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Overland and highway surface water flows entering low lying property due to suspected lack of capacity in the surrounding highway drainage system. | 1 | LCC - Yes | LCC have investigated the drainage system and placed an order to raise kerbs and install new gullies. LCC is awaiting funding availability prior to carrying out the works. | Order placed for new gullies and raise kerb | LCC |
| 06-Jul-12 | High Street | Burgh Le Marsh | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Overland and highway surface water flows entering low lying property due to suspected lack of capacity and defects in the surrounding highway drainage system, despite previous kerbing works aimed to mitigate problem. | 1 | LCC - Yes | LCC have investigated the surface water system and identified damage caused by utility activity. LCC will enforce repair once utility has been identified. In addition, LCC have liaised with residents, issued an order to raise the kerbs, regrade the footway and install a new surface water sewer/highway drain with outfall into catchwater drain, in order to provide additional protection. | Raise kerbs and regrade footway | LCC |
| 06-Jul-12 | King Edward Road | Woodhall Spa | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Surface water entering property due to overland flows from the Highway (reported Feb 2013) no further details at this stage | 1 | LCC | Awaiting further details | | |
| 06-Jul-12 | Roman Bank | Skegness | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Surface water entering property from highway (reported Oct 2012) no further details at this stage | 2 | LCC | Awaiting further details | | |
| 19-Jul-12 | Lumley Avenue | Skegness | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Extreme rainfall caused both highway surface water and overland flows to funnel down the unadopted lane and collect in the low area behind the properties of Lumley Avenue. | 2 | LCC - Yes | LCC has installed two new gullies to cut off the discharge from the highway onto the private road. Owners of the private road will need to consider a drainage system within the unadopted lane. | New gullies installed. Private system still unresolved. | LCC |
| 03-Aug-12 | Coots Lane | Mumby | East | Dean Myhill Area Highways Manager East Division Northern Area | Following intense rainfall water flowed down Coots Lane entering a property which is situated at the lowest point. A combination of water from carriageway and driveway was believed to be cause. | TBC | LCC - Yes LMIDB - Yes | Drainage survey to be undertaken with a view to upgrading the existing highway surface water drainage system. LMIDB to contact Riparian land owner of the dyke to request it to be cleaned/maintained on a regular basis. | LCC to undertake drainage survey. LMIDB to request cleansing/maintenance of dyke | LCC LMIDB |
| 17-Mar-13 | Main Street | Bucknall | East | Andy Ratcliffe Area Highways Manager East Division Southern Area | Following intense rainfall. Overland flows from adjacent fields flowed through the rear garden of and entered the property. | 1 | LCC - Yes LMIDB - Yes | Historic ditch to the rear of the property appears to have been filled/removed. This has now been reinstated to a good standard. LMIDB to check works | LMIDB to check works | LCC LMIDB |
| 30-Apr-12 | St Catherines Grove | Lincoln | North | Jeanne Gibson Area Highways Manager North Division Lincoln City Area | Surface water backed up and surcharged into St Catherines grove due to flap valve sticking open. | 2 | Lincolnshire County Council - Yes Anglian Water - Yes Environment Agency - Yes | Anglian Water is to inspect the flap value at the outfall to the River Witham, and introduce a maintenance regime to ensure it closes when the river levels are high. | AW to Maintain flap valve | AW |
| 28-Jun-12 | Castle Hill | Caistor | North | Steve Wiles Area Highways Manager North Division North Area | Due to heavy rainfall the Anglian Water foul sewer system became overwhelmed due to infiltration of surface water and backed up into a property in Castle Hill. | 1 | Anglian Water - Yes | There is a non-return valve fitted to the property lateral which was ineffective. Anglian Water have repaired it and are to implement an improved maintenance regime. | AW to maintain non-return valve. | AW |

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| 28-Jun-12 | Maple Avenue, Riby Road and Pelham Crescent | Keelby | North | Steve Wiles Area Highways Manager North Division North Area | Flooding was caused by surcharging surface water sewers combined with overland flows. | 4 | LCC - Yes Anglian Water - Yes | Further detailed study required to the ownership, condition and capacity of the surface water sewer system with a view to providing a new pipe system to intercept flows from the A18 Barton Street to reduce flows entering the village and to upgrade the pipe between Riby Road and Caddle Beck. Further LCC investigation and design required. Scheme bid due to be submitted for feasibility and works. | Surface water drainage schemes under consideration. Further LCC investigation and design required. Feasibility 2014/15/16 Work 2016/17/18 | LCC |
| 28-Jun-12 | Eastfield Road | Keelby | | Steve Wiles Area Highways Manager North Division North Area | Surface water sewer overwhelmed due to its connection to a blocked riparian drain. | 3 | Anglian Water - Yes North East Lincs IDB - Yes LCC - Yes | North East Lincolnshire Internal Drainage Board to clear riparian drain. Anglian Water to investigate cross contamination of foul and surface water systems. LCC to investigate the provision of a new chamber on the culverted section of watercourse in order to facilitate further investigations. Riparian owners to be advised of their responsibilities. | No further action at this time | AW North East Lincs IDB LCC |
| 28-Jun-12 | Brigg Road | Moortown | North | Steve Wiles Area Highways Manager North Division North Area | Extreme rainfall (in the order of a 1 in 200 year event) caused the riparian ditches in front of properties on Brigg Road to overtop causing internal flooding. | 1 | Ancholme IDB - Yes | Riparian owners have been advised to clear the ditches in front of their properties. Ancholme Internal Drainage Board is to advise residents and promote investigation into the outfall of riparian watercourses into Nettleton Beck. Ancholme Internal Drainage Board requested to assess for enforcement action. | IDB requested to assess for enforcement action. | Ancholme IDB |
| 28-Jun-12 | Faldingworth Road | Spridlington | North | Steve Wiles Area Highways Manager North Division North Area | Extreme rainfall (in the order of a 1 in 200 year event) caused surcharging of the highway drainage system in the village and internal flooding. | 1 | LCC - Yes | Highway drainage system found to be in good order following the investigation. As the flooded property has a very low threshold Property Level resilience recommended. | No further action at this time | LCC |
| 06-Jul-12 | Beevor Street | Lincoln | North | Jeanne Gibson Area Highways Manager North Division Lincoln City Area | Internal flooding to an industrial property caused by blockage to private sewer | 1 | None | Advised company to investigate the blockage and connection of their private sewer. This has now been carried out and has been cleared through to its connection with the Anglian Water system in Beevor Street. | No further action at this time | Private |
| 10-Jul-12 | Laing Close | Bardney | North | Alan Brown Area Highways Manager North Division South Area | Surcharging from foul and surface water sewers due to blockages within the SWS and possible concerns over operation of foul sewer system due to possible downstream pump failure, excessive surface water connectivity to the foul sewer and the effectiveness of the overflow arrangements at the pumping station. | 1 | Anglian Water- Yes Witham 3rd IDB - Yes | LCC system checked and functioning effectively. Anglian Water has provided resilience measures at a property on Laing Road. Anglian Water to check and repair their systems and investigate the flow carried by the foul system and validate the capacity of the foul sewer, including the operational effectiveness of the foul pumping station and its emergency overflow arrangements. The installation of a flap valve to the surface water sewer outfall at the rear of Baltholomew Close should be investigated. Witham 3rd Internal Drainage Board to complete its study into the benefits of upgrading its culvert through the garden of a property on Abbey Road. | LCC system checked and ok, problems found with AW SWS and reported to AW taken mitigating action by erecting flood boards at the property. | AW, Witham 3rd IDB |
| 01-Dec-13 | High Street | Heighington | North | Alan Brown | Surface and Ground water flooding (from a private Well) groundwater entered the the lowest room in the property (the former dairy) following prolonged wet weather. | 1 | LCC, Private | The provision of a new overflow for the well will certainly allow for a significant discharge from the area. However it is difficult to confirm whether the arrangements installed will limit the rise in groundwater levels should similar weather conditions recur. The effectiveness of the completed installation be monitored by on-going liaison between LLFA and the owners. | Landowner to undertake works | Private |

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| 06-Jul-12 | Quadring Road | Donington | South | Andy Wharff Area Highways Manager South Division Boston | Following a period of heavy rainfall it is assumed that both footway and carriageway water entered the footway drainage system. The carriageway is significantly higher than the footway and properties on Quadring Road. There is also the possibility that the combined sewer was overwhelmed. | 1 | LCC - Yes Anglian Water - Yes | LCC investigations have identified that the Highway drainage does not outfall to the Anglian Water combined sewer. The highway drainage system was compromised some distance from the development. This has now been repaired and a new outfall provided to a nearby Highway Drain. | Further investigations identified that the Highway drainage did not outfall to the AW Combined sewer and was compromised some distance from the development. System now repaired and new outfall provided to a neighbouring Highway Drain. | LCC |
| 06-Jul-12 | High Street | Gosberton | South | Andy Wharff Area Highways Manager South Division Boston | Heavy rainfall caused the piped and open dykes within the village to overflow which caused internal flooding. | 1 | Welland and Deepings IDB- Yes LCC - Yes | LCC have checked the highway drainage system in the vicinity and found it to be clear. Maintenance to Highway drainage system and riparian ditches and piped drains undertaken. | Maintenance to Highway drainage system and riparian ditches and piped drains undertaken | LCC / IDB |
| 01-Apr-12 | Church Lane | Brandon | West | Mark Heaton Area Highways Manager West Division Grantham | Overland flow from adjacent land. Saturated ground leading to overland flow which may have been exacerbated due to the lack of maintenance of riparian watercourses. South Kesteven District Council has given advice, and a drainage alleviation showing a proposed filter drain to the side of the property to intercept overland flows and underground surface water, which has not been approved by LCC. | 1 | Lincolnshire County Council - Yes South Kesteven District Council - Yes Upper Witham IDB - Yes | Property owner to maintain his filter drain. LCC Highways to improve highway drainage to remove standing surface water. Risk Management Authorities to ascertain ownership of all watercourses and advise the owners to clear/maintain them periodically. | LCC to install and improve highway drainage system to reduce the risk of standing surface water. | LCC, SKDC, UWIDB |
| 29-Apr 28-June 6-July | Warterloo Cottages A607 | Belton | West | Rowan Smith Area Highways Manager West Division Sleaford | Surface water from public highway and adjacent private land flowing onto properties . | 2 | Lincolnshire County Council - Yes Upper Witham IDB - Yes Environment Agency - Yes South Kesteven District Council - Yes | Upper Witham Internal Drainage Board has carried out enforcement on riparian owner for watercourse improvements. LCC Highways is designing improvements to the drainage system. | New drainage system/dike renewal (seeking funding) | LCC |
| 28-Jun-12 | A607 Main Street | Carlton Scoop | West | Mark Heaton Area Highways Manager West Division Grantham | Surface water run-off from private land running onto highway then running from highway and entering front of cottage | 1 | LCC - Yes Upper Witham IDB - Yes | IDB undertaking enforcement, further LCC investigation to be carried out. System Jetted requires new Manhole order will not be placed until other issues have been resolved. | IDB undertaking enforcement. Further LCC investigation to be carried out. | LCC Upper Witham IDB |
| 28-Jun-12 | Bridge End Road | Grantham | West | Mark Heaton Area Highways Manager West Division Grantham | Highway surface water run-off entering front of property and exiting from the rear due to root obstructions in Anglian Water system | 1 | LCC - Yes Anglian Water - Yes | Anglian water have undertaken root clearance works. | AWA scheme completed | AWA |
| 28-Jun-12 | High Street North and South, Manor Street, Chapel Street and Chestnut Street | Ruskington | West | Rowan Smith Area Highways Manager West Division Sleaford | Overtopping of Ruskington Beck (main river) and surcharge of foul sewers and overtopping of riparian watercourse. | 6 | Environment Agency- Yes Anglian Water - Yes Witham 1st IDB (Enforcement) - Yes | The Environment Agency is to remodel Ruskington Beck (hydraulic) and carry out riparian enforcement. Anglian Water is investigating the foul water system and is considering an improvement scheme. A bid for an overall study for Ruskington has been submitted for feasibility, design and works. | Investigation ongoing LCC, AWA, EA Feasibility and Design 2015/16 Work 2016/17 | LCC / AWA / EA |
| 28 June 12 6 July 12 | Avenue Road | Grantham | West | Mark Heaton Area Highways Manager West Division Grantham | Highway surface water run-off entering front of property. Highway SWS backed up due to capacity issues within Anglian Water system | 1 | LCC - Yes Anglian Water - Yes | Anglian Water scheme completed. | AWA scheme completed | AWA |

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| 05-Jul-12 | Casthorpe Road | Barrowby | West | Mark Heaton Area Highways Manager West Division Grantham | Highway surface water and surface water from private property flowing into garage and residential property. | 1 | LCC - Yes | Lincolnshire County Council are designing improvements to surface water drainage and advising residents on self protection | LCC are designing improvements to surface water drainage and advising residents on self protection | LCC |
| 06-Jul-12 | Boundary Button Hole Cottages | Allington | West | Mark Heaton Area Highways Manager West Division Grantham | Overtopping of Riparian ditches upstream of recently piped section of surface water run-off from fields and highway | 2 | LCC - Yes Upper Witham IDB - Yes | The Upper Witham IDB have undertaken enforcement and cleared the drain. LCC highways have issued an order to provide a new piped highway drainage system | LCC to provide new highway drainage system | LCC |
| 06-Jul-12 | High Street | Harlaxton | West | Mark Heaton Area Highways Manager West Division Grantham | Current drainage system insufficient capacity and backed up causing flooding to the carriageway and 2 properties | 2 | LCC - Yes Upper Witham IDB - Yes Anglian Water - Yes | Following detailed investigation a joint scheme between LCC and Upper Witham IDB has been completed. EA to investigate Mow Beck watercourse downstream. | LCC surface water scheme completed | LCC |
| 06-Jul-12 | Main Road | Long Bennington | West | Mark Heaton Area Highways Manager West Division Grantham | Groundwater flooding through the cellar . | 1 | LCC - Yes | Resident advised to tank cellar. | Advice provided | LCC |
| 06-Jul-12 | Tattershall Road | Billinghay | West | Rowan Smith Area Highways Manager West Division Sleaford | Blockage on a private gulley which backed up and water entered a property through an external door. | 1 | LCC - Yes | System jetted and cleared. No evidence of cause of blockage. Now on 3 x per year cleansing and jetting highway drain to outfall. | No further action at this time | LCC |
| 06-Jul-12 | Cottages White Cross Lane / Asgardby Road | Burton Pedwardine | West | Rowan Smith Area Highways Manager West Division Sleaford | Surface water surcharge from private open watercourse to the east. | 2 | Black Sluice IDB - Yes | Black Sluice IDB to carry out enforcement. Resident met and awaiting proposals which may be subject to a highway contribution. Awaiting Confirmation. | Discussions still ongoing between LLFA, IDB and residents | LCC Black Sluice IDB |
| 06-Jul-12 | North Street | Digby | West | Rowan Smith Area Highways Manager West Division Sleaford | Overland flow from field into private properties, also blocked culvert/watercourse on school playing field. | 8 | LCC - Yes Witham 1st IDB - Yes | LCC, Witham First IDB and the Environment Agency are to undertake local maintenance and improvement works following consultation with the Parish Council. A bid for an overall study for Digby has been submitted for feasibility, design and works. | Localised Works 2013/14. Feasibility and Design works 2014/15. Works 2015/16/17 | LCC |
| 06-Jul-12 | Beck Street | Digby | West | Rowan Smith Area Highways Manager West Division Sleaford | Overtopping of Digby Beck (main river) and capacity issues on the foul sewer | 2 | Environment Agency - Yes Anglian Water - Yes LCC - Yes | | | |
| 06-Jul-12 | The Hurn | Digby | West | Rowan Smith Area Highways Manager West Division Sleaford | Overtopping of IDB drain (Digby Beck North Branch) and riparian watercourse. Suspected failure of Anglian Water foul pumping station. | 10 | Witham 1st IDB - Yes Anglian Water - Yes | | | |
| 06-Jul-12 | Laburnham Cottage, South Drove | Helpringham | West | Rowan Smith Area Highways Manager West Division Sleaford | Combination of private and highway surface water which drained to property | 1 | LCC - Yes | LCC have installed a new gulley and outfall to dyke on the opposite side of the road. | Works completed by LCC Highways | LCC |
| 06-Jul-12 | Leasingham village | Leasingham | West | Rowan Smith Area Highways Manager West Division Sleaford | Surface water and foul water flooding capacity issue on watercourse running through the village, also capacity/maintenance issue with pumped foul sewer. | 2 | Environment Agency - Yes Anglian Water - Yes LCC - Yes Witham 1st IDB (Enforcement for LLFA) - Yes | Further investigations to be carried out by LCC, and further discussions to be held with the other listed risk management authorities. | Investigations ongoing LCC AWA, | LCC / AWA |
| 06-Jul-12 | Main Street | Scopwick | West | Rowan Smith Area Highways Manager West Division Sleaford | Ditch backing up and overtopping due to volume of surface water in the main surface water pipe system. | 1 | Witham 1st IDB (Enforcement) - Yes Lincolnshire County Council Yes | LCC have jetted the system, further investigations into ownership of main piped drain and open ditch are ongoing. Two pipes under the road culvert were sufficient to cope with the expected flows and no alterations will be required. However, it was agreed that a camera survey would be appropriate to ensure flow was unrestricted, this was completed in Nov 2013. The drainage report clearly shows two intrusions of utility apparatus blocking the flow at two separate points by up to 40%. AWS & WPD are being chased in to getting them to repair the breakages and move their services out of the way. Historic information indicates that Blankney Estates have done very little drainage maintenance over many years. Overland water and ground water is being deposited / is flowing into the new development and the drainage on the site is at near capacity. There are concerns that water from this site will end up in the open dyke adjacent to the property that suffered flooding. | investigation ongoing regarding ownership. | LCC |

DUTY TO INVESTIGATE
SECTION 19 ON-GOING INVESTIGATIONS

| Date | Location | Town | Division | Contact Officer | Description of Flooding | No of Properties internally Flooded | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Proposed Action/Works | Promoter |
|-----------|------------------------------|---------------------------------------|----------|--|--|-------------------------------------|---|---|---|----------------------------|
| 06-Jul-12 | Southgate | Sleaford | West | Rowan Smith Area Highways Manager West Division Sleaford | Surface water from public highway and private land flowing into properties through front and rear entrances. | 2 | Lincolnshire County Council Yes Anglian Water - Yes | LCC to advise properties on self prevention measures relating to flood resilience. Anglian Water to investigate capacity of combined system. | LCC completed as promised but awaiting AWS investigation | LCC |
| 06-Jul-12 | Various | Timberland & Thorpe Tilney village | West | Rowan Smith Area Highways Manager West Division Sleaford | Surcharging of open watercourses and assumed restrictions within culverted sections. Surcharge of public surface and foul water systems. | 3 | Witham 1st IDB - Yes Lincolnshire County Council Yes Anglian Water - Yes | Improvement works on LCC watercourse undertaken November 2012. Ongoing LCC investigations, further excavations to commence to provide access for CCTV survey, also minor kerbing improvements and works issued. A meeting has been held with the Parish Council/Flood Group/National Flood Forum. A bid for an overall study for Timberland has been submitted for feasibility, design and works. | Ongoing LCC investigation further excavations to commence to provide access for CCTV survey. also minor kerbing improvements and works ongoing. Feasibility and Design 2016/17/18 Works 2018/19 | LCC |
| 06-Jul-12 | High Street and The Drift | Walcot | West | Rowan Smith Area Highways Manager West Division Sleaford | Flooding of property caused by volume of water backing up in the surface water system. Further investigations revealed at least 6 properties off the drift which were internally flooded. This flooding was a combination of blockages in the surface water system and intensity of rainfall. | 7 | Lincolnshire County Council Yes Anglian Water - Yes | Anglian Water works in progress. LCC improvement scheme ongoing. A meeting with Walcott Parish Council has been held. | AWS works in progress. LCC scheme being redesigned by TSP Investigation and works 2014/15 | LCC / AWS |
| 06-Jul-12 | Allington Road | Sedgebrooke | West | Mark Heaton Area Highways Manager West Division Grantham | Following an intense period of rain, highway surface water and watercourses overtopping flooding breaching property thresholds. | 2 | Environment Agency - Yes Upper witham IDB - Yes LCC - Yes Anglian Water - Yes | Environment Agency have cleared out the Beck, Upper Witham IDB have cleared the riparian ditch and are negotiating with Parish Council to maintain in future. Lincolnshire County Council to install new kerbing fronting properties affected (order placed). Anglian Water to undertake installation of non return flap valves. | LCC to install new kerbing | LCC EA UWIDB |
| 06-Jul-12 | West End / High Street | Swaton | West | Rowan Smith Area Highways Manager West Division Sleaford | Overland surface water flowing through private land. Separate case of overtopping of Swaton Eau flooding carriageway and property basement. | 2 | Environment Agency - Yes Black Sluice IDB - Yes Lincolnshire County Council Yes | The Environment Agency has completed their hydraulic modelling works. Black Sluice Internal Drainage Board has previously bid for an improvement scheme. LCC/Environment Agency have been asked to assist with scheme promotion. | EA completed modelling, discussion with LCC regarding possible escape route for residents. Also considering resilience measures for properties | LCC / EA |
| 28-Jun-12 | Thorald Avenue | Cranwell | West | Rowan Smith Area Highways Manager West Division Sleaford | Surface water surcharge from private parking area and Highway gullies onto private property causing internal flooding of conservatory. Possible contributing factors due to the development of adjacent land which was historically an area of flood plain. Non maintenance of riparian watercourse. | 1 | Witham 1st IDB - Yes Lincolnshire County Council Yes North Kesteven District Council - Yes | Investigations ongoing between LCC, North Kesteven District Council and Landowners. Small scheme to divert water away from garages being looked at. Landowner has been written to regarding possible cutting of new dyke. | Investigations ongoing LCC, NKDC, Landowners | LCC / NKDC / Landowners |
| 21-Nov-12 | Irnham road | Corby glen | West | Kevin Brumfield Area Highways Manager West Division Thurlby | Overland flow from adjacent farm land. | 1 | LCC, | S19 Report in progress CCTV investigation now done interference from third parties requires funding & resources. | | |

DUTY TO INVESTIGATE
SECTION 19 ON-GOING INVESTIGATIONS

| Date | Location | Town | Division | Contact Officer | Description of Flooding | No of Properties internally Flooded | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Proposed Action/Works | Promoter |
|-----------|-----------------|--------------------|----------|---|--|-------------------------------------|---|---|--|------------------------|
| 26-Nov-12 | The Grove | Hanthorpe | West | Kevin Brumfield Area Highways Manager West Division | Surcharge from dike/drains. | 1 | Lincolnshire County Council Yes South Kesteven District Council - Yes | LCC continue to discuss issues with residents. LCC arranged a 1 hour emergency response team to clear and investigate potential blockages and issue sandbags due to the period of heavy rainfall. The investigation identified there was a culverted driveway using a 600mm concrete pipe which has a foul sewer connection crossing through which is then connected onto two 150mm pipes, this connection is of a poor standard, further restrictions included tree roots which have been removed. There is a planning history with regard to the culverted vehicle crossing, which has not been constructed as the original planning permission. This is currently under investigation by South Kesteven District Council. All remedial work that has been carried out appears to have alleviated the problem to a certain extent. Further works planned include installation of a trash screen on the pond side to stop any large debris entering the watercourse. | Installation of a trash screen on the pond side of the culvert & further investigation by SKDC planning as to the culverted driveway | LCC/SKDC |
| 06-Jul-13 | Newton Village | Newton near Haceby | West | Rowan Smith Area Highways Manager West Division Sleaford | Overtopping of riparian dykes. | 7 | Black Sluice IDB - Yes Lincolnshire County Council Yes | LCC proposing to replace culvert on Church Road, and the Black Sluice Internal Drainage Board/LCC are to explain further riparian duties to residents. Details of additional enforcement requirements to the east of the village have been sent to the Black Sluice Internal Drainage Board. | Enforcement letters to be sent by June 2013. Design and Build 2014/15/16 | LCC / Black Sluice IDB |
| 23-Jul-13 | York Road | Stamford | West | Mark Heaton Area Highways Manager West Division Grantham | Blocked gullies on Sussex Road causing water to back up in York Road resulting in internal flooding. | 1 | Lincolnshire County Council Yes South Kesteven District Council - Yes | Following the 1 hour emergency response, LCC investigated a potential blockage and emptied gullies. Initial investigation showed that the gully on the south side of York Road (near No 4) was blocked approximately 3m from the gully access. The jetter cleared the initial blockage, however jetting could only be undertaken for approximately 20m to an area under the conservatory at the rear of no. 2 York Road. Emergency road closure to install a new double gully and connect to existing surface water system on Sussex Road (approval sought and received from Anglian water). | Installation of a new double gully on York Road and connect to existing storm water system on Sussex Road. | LCC /AW |
| 23-Jul-13 | Oster Fen Lane | Claypole | West | Mark Heaton Area Highways Manager West Division Grantham | Due to heavy rainfall that fell on the 23rd/24th July 2013, a property suffered internal flooding. The owner reported that there was inadequate drainage along Oster Fen Lane and Main Street and the drainage that was there was not maintained. The road is covered in silt and the gullies were blocked with straw. The owner stated the road had previously flooded. | 1 | Lincolnshire County Council Yes South Kesteven District Council - Yes | LCC instructed a gully tanker to clean and jet the highway drainage system outside the property, the system was reported to be running well. Anglian Water CCTV'd the public sewer several weeks later, it identified tree roots to the extent that the survey had to be terminated. The removal of the tree roots has been undertaken and a further CCTV investigation is due to take place. Property owner is to investigate downpipes and gully at rear of property. SKDC to undertake regular carriageway sweeping in the village to reduce the amount of detritus to build up around the gullies. | Complete | LCC, AW, Private |
| 05-Aug-13 | Main Street | Long Bennington | West | Mark Heaton Area Highways Manager West Division Grantham | The rainfall event led to surface water from the Manor Drive estate flowing out of the junction to join the flow running along Main Road, which entered the property. | 1 | Lincolnshire County Council Yes STW - Yes | LCC jetted all highway surface water drainage in the area to ensure no blockages. Installation of kerbing and an extra highway drainage has been completed. Investigation into the foul drain has been carried out by Severn Trent Water and two blockages/breaks in the system have been repaired. | Complete | LCC STW |
| 06-Aug-13 | New Cross Roads | Stamford | West | Mark Heaton Area Highways Manager West Division Grantham | Standing water collected at the front of the property and caused internal flooding. | 1 | Lincolnshire County Council Yes Anglian Water - Yes | All highway drainage found to be running clear on New Cross Roads, however the kerb offset opposite the property was found to be blocked and required work to be carried out. On a site visit on 7th August a gully located on Sussex Road was also identified as being blocked with leaf matter & debris this was later cleared. Recommendations made include LCC to clear the blocked offset, Anglian Water to maintain their utility surface water drainage system, the property owner to maintain their rainwater outfall, and alterations to be made to the rainwater drainage of the properties here so rainfall is shared more evenly and not concentrated in one location. | No further action at this time | LCC, AW, Private |

| Date | Location | Town | Division | Contact Officer | Description of Flooding | No of Properties internally Flooded | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Proposed Action/Works | Promoter |
|-----------|----------------------------|----------|----------|---|---|-------------------------------------|--|--|--|---------------------------|
| 06-Jul-13 | Thorn Cottage | Aswarby | West | Mark Heaton Area Highways Manager West Division Grantham | Water breached the banks of the South Beck and flooded adjacent agricultural land and the garden Thorn Cottage . Flood water surrounded the property and outbuildings Lincolnshire Fire & Rescue evacuated the occupants and pets due to the flow of water demolishing the deck of the access bridge. Flood water entered the property through the lounge floor before breaching the front & rear door thresholds Due to the property being served by Septic tanks, flood water overwhelmed these systems and contaminated the water which again consequently entered the property. | 1 | Lincolnshire County Council - Yes Black Sluice IDB - Yes Environment Agency - Yes | <p>Flooding at this location can be attributed to the lack of maintenance to South Beck which fronts the property.</p> <p>Environment Agency to undertake major weed control maintenance throughout the length of South Beck west and east of Thorn Cottage to increase capacity for flow.</p> <p>Environment Agency to review their existing maintenance regime of the South Beck to ensure flows can be accommodated through its length to South Forty Foot drain. Black Sluice to undertake enforcement of obstructions and maintenance on the riparian watercourses to the west of Thorn Cottage which is within their board area.</p> | Regular maintenance of Main rivers & Riparian Watercourses | LCC, Black Sluice IDB, EA |
| 20-Oct-13 | Kings School, Brook Street | Grantham | West | Mark Heaton Area Highways Manager West Division Grantham | Surface water flooding on carriageway caused water entered the classroom and cellar. | 1 | LCC | LCC have cleaned and jetted out the carriageway gully. Further investigations to be carried out including a CCTV investigation and observations to ensure the drainage system is running adequately in the area. | LCC have cleaned and jetted out the carriageway gully. Further investigations to be carried out including a CCTV investigation and observations to ensure the drainage system is running adequately in the area. | LCC |