



**Overview:**

This report is being issued to create understanding of the extent of the problem and unanswered requests for information and action.

Kiln Lane and Sherbourne residents, Hambleton residents, Hambleton Parish Council, Wyre Borough Council, Lancashire County Council, Wyre Flood Forum, Making Space for Water Agencies, Local MP's Office, and most importantly United

Utilities are aware of the flooding that occurs and has been occurring for more than 10 years. In all of that time the definitive detailed actual causes of high tide flooding of both the surface water and foul systems, creating surface flooding near to Kiln Lane Pump Station and actual property and house flooding to properties on Sherbourne has yet to be established. The approach by the agencies to date has been piecemeal and does not address actual cause which remain unknown and need to be established; following from which a holistic approach to solving/mitigating the problem hopefully will come. A separate working group was established on the back of the MSFW meetings we hope this can be used to provide the focus required. Flood Management legislation mandates Section 19 reports by LCC (The Lead Local Flood Authority), which whilst noting this flooding, have had little effect. The following FLAG report essential reiterates where are and request information and suggests actions that may be considered

**FLAG report, comment and request for action:**

**General**

The general plan included here shows the areas relative to Kiln Lane and Sherbourne flooding.

Work has been done with regards Rydal Road (Kiln Lane Water Course) out fall (ref S10) and the associated piped water course and recently the Kiln Lane Water course outfall (ref K16).

However essentially the same conditions still apply in that flooding risk still exists for when heavy rainfall coincides with a high tide.

The manholes and gullies in Kiln Lane, during flooding can all be observed surcharging up and flooding the road. At Sherborne Rd the flooding regularly enters houses, along Kiln Lane the roads are flooded to 300 or 400 mm (notwithstanding a central high area). Because the gullies and the manholes surcharge it was thought that Kiln Lane was a combined surface and foul system; it would now appear that it is separate, our requested for information showing this is outstanding.

Our report covers:

- a)-Sherbourne Road Surface Water System
- b)-Kiln Lane West Surface Water System
- d)-Kiln East Surface Water System
- c)-Kiln Lane Foul Water System

**a)-Sherbourne Road Surface Water (WBC, LCC)**

This surface water drains from Sherbourne Road to the piped water course which outfalls into Kiln Lane Watercourse. The system is shown on the plans (ref S1 to S9) as 450WC, 300WC, 225WC, 300WC, 225WC. Also connected into this system are the surface water drains from gullies in; Rydal Rd, Coniston Ave, Birchwood Drive, Woodhall Gardens, Broadpool Lane, Ryecroft Ave., Sandy Lane, Pauls Lane, Stoney Lane, Market Street, Arthurs Lane, Broadlands Ave, Crookland Gardens and Aldwath Close; which lends a particular importance for this line to be operable. These lines also include further sections of riparian ownership piped water courses. There appears, from the plans supplied, to be a reduction of pipe diameters in the direction of flow when an increase would normally be the correct engineering solution.

Reviewing the system in order of direction of flow;

**Ref S1-S2**, unmapped drainage, (under roads?, under gardens?) responsibility of LCC&UU. Area has been subject to investigation, report is still in progress, when will this be issued?(WBC)

**Ref S2-S3**, -450mm diameter WC pipe under gardens of Riparian owners, 6 no. Ullswater Close properties.

**Ref S3-S4**-450mm diameter WC pipe under gardens of Riparian owner 24 Coniston Ave. Concrete manhole in the front garden pointed out to LCC is this on the line.

**Ref S4-S5**-300mm diameter WC pipe under Footpath South -Coniston Ave-Footpath-North responsibility UU. The WC pipe show reduces in size from 450mm diameter to 300mm diameter, reducing capacity by 56%. There are pipes from road gullies feeding in from the east on the south side and from the west on the northside. These are 90 degree changes of direction. Can UU consider the installation of a manholes for inspection and maintenance. The North Footpath outside 17 Coniston shows evidence of subsidence.

**Ref S5-S6**-225mm diameter WC-Pipe under garden of Riparian owner 17 Coniston north. The WC pipe reduces further in size from 300mm diameter to 225mm diameter, this is a reduction in capacity, compared to the 450mm diameter pipe of 75% !!

**Ref S6-S7**-225mm diameter WC pipe under garden of Riparian owner 49 Rydal south. There is a manhole in the driveway. Has this been surveyed to see if it is on the WC line? UU/LCC/WBC

**Ref S7-S8**-300mm diameter WC pipe under Footpath South-Rydal Rd-Footpath North responsibility of UU. The WC pipe increases back to 300mm diameter.

There are pipes from road gullies feeding in from the east on the south side and from the west on the northside. These are 90 degree changes of direction. Can UU consider the installation of a manholes for inspection and maintenance.

Trial hole by dug 2019 failed to find pipe, we understand it UU or could have been LCC that dug trial holes to find the pipe,

however they encountered running sand and the hole was backfilled.

**Ref S8-S9**-225mm diameter WC pipe under garden of Riparian owner 24 Rydal north

**Ref S9-S10**-225mm diameter WC-pipe across field Riparian owner (ref R1).

**Ref S10**-225mm diameter WC-pipe outfall EA?

Cleared by LCC 2019. Note: At the time items of sewerage nature were observed, suggesting there may be illegal foul connections. Whose responsibility is the outfall ?(UU, EA, LCC)

Are there plans for maintenance/inspection of this outfall ? (UU, EA, LCC)

#### **Summary Comment**

Is our understanding that the pipe has been camera surveyed correct ? (LCC/UU)

Were any illegal foul connections noted during the survey (LCC/UU)

Is the fact that the pipe diameter reduces from 450 mm to 225mm born out by survey.(LCC/UU)

It would seem to be quite obvious that over time this pipe has become extremely overloaded and that it is a major factor in the road flooding in Hambleton. Who owns this responsibility ?(LCC/UU/WBC/Riparian) and what action can be taken.

#### **b)-Kiln Lane West Surface Water**

From local information, we understand, this drainage was put in following river flooding into Kiln Lane. It was then modified with a flap to the outfall to prevent back flow from high tides, and then further modified with a secondary flap/one way valve. Requests for plan details commenced by letters in March & April 2018 to UU, particularly with regards pumpstation connections, we are still NOT in possession relevant information. Can UU commit to passing on what they have, and if information is lacking that is required to review/assess the system operation that that information is surveyed.

Reviewing the system in order of direction of flow;

**Ref K1-K2**-300mm diameter pipe responsibility UU, flowing from the Pump Station Area.

Is this connected to the pump station in some way, emergency gravity overflow ?UU?

Or is this connected to the Kiln Lane surface water UU?

And if it is how are the two outfalls at ref K10-K11 connected

**Ref K2-K3**-300mm diameter pipe under field Riparian ownership

**Ref K3-K4** 300mm diameter pipe under road responsibility UU

**Ref K4-K5** 300mm & 450 mm diameter pipes under road, with square manholes, responsibility of UU

**Ref K5-K6** 450mm diameter pipe under field & garden Riparian owner cottage and field, is this correct as this was not a previous water course whose responsibility is the pipe Do we assume manhole, responsibility UU, with secondary flap/one way valve?

**Ref K6-K7** 450mm diameter pipe under road (and future EA flood protection works)responsibility UU

**Ref K7**-Outfall responsibility UU/EA?.Wardleys pool flap. Can UU/EA provide the invert level?

#### **Summary Comments**

Did the last UU surveys include this pipe run ?

Knowledge of the invert levels at beginning and end are need to review reaction with the tide levels UU

The nature of the connection at the pumpstation end is also need for review

#### **c)-Kiln East Surface Water**

We have no detail plans of the surface water system and if not available can they be established by survey for review and information. Is there any connectivity with the foul drain system. Is it the pipe configurations at the pump station that cause flooding at the same time as the foul system

Reviewing the system in order of direction of flow;

**Ref K10**-Manhole in footpath outside pharmacy, is this the surface water? UU

**Ref K11**- 2no manholes 1 circular 1 triangular is one of these the surface water ? UU

**Ref K12**-1no manhole circular is this surface water? UU

**Ref K13**-2no circular manholes is one of these the surface water ? UU

**Ref K14**-1no square manhole is this the surface water ? UU

**Ref K15**-2 no surface water pipes, riparian ownership previously understood as redundant, there is a change of direction is there a manhole on the ground

**Ref K16**-2no surface water pipes, Riparian ownership. 1no pipe recently discovered at out fall. Has the pipe been cleaned/ surveyed? What are the plans for searching for the second pipe? Whose responsibility is this? WBC

#### **d)-Kiln West Foul Water**

**Ref F1**-The line down Kiln Lane commences in Broadpool Lane. It receives the sewerage pumped from Green Meadow Lane Pump Station

**Ref F1-F2-F3-F4-F5-F6-F7-F8-F9-F10** are manholes along Kiln Lane, all of which undergo surcharge during flooding events (together with the Surface Water Gullies) and between Ref F7 and Ref F8 air bubbles are seen rising from the road surface above the sewer line.

Following prompting to Ben Wallace UU Katy Duffy met Mike O'Flaherty early 2020, UU advised that their computer modelling indicated that flooding should not occur during high rainfall events and advised that they would be installing monitors mid 2020 to gather data in order to receive this and perhaps discover where the system may be compromised. This promise was not met, it now seems that we MIGHT receive some monitoring as part of a larger scheme re 'Fleetwood' monitoring.

This review will address the inflows to the system. The Kiln Lane Pump Station receives ALL the sewerage from Hambleton, this includes a pressure main which from Sherbourne Road Pump Station to Kiln Lane Pump Station which runs under the gardens (possibly extensions) of 22 properties. We do not have the information as to how much sewerage is received from Stalmine and village North ?

We all know that the capacity of a system is not considered during planning applications. All Hambleton residents know of the continued increase of development.

We reiterate our request for Pump Station Details; of invert, sump capacities, overflows for our review and information