

FAIRLIGHT UPDATE

What we're doing to 'slow the flow' and reduce surface water in Fairlight

[Watch our Fairlight Pathfinder Update video](#)

Background

The Fairlight catchment was specifically chosen as a Pathfinder due to current and historical occurrences of flooding and current storm overflow performance within the area. The original Fairlight sewer network is acting as a combined sewer with foul water and surface water connecting into the sewerage network.









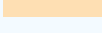
This catchment was selected so that, by using a holistic catchment approach to understanding and managing flows, we can identify options to reduce the flooding and pollution incidents and the storm loading on the treatment works.

Our approach

- **Infrastructure improvements:** We're upgrading and optimising our infrastructure and systems to manage heavier flows of rainwater.
- **Partnership:** We're working closely with Deal Water Action Task Force as well as local authorities, businesses, and homeowners so we can make the biggest impact possible.
- **Sustainable Drainage Systems (SuDS):** We're using a variety of SuDS to increase natural drainage and manage excess surface water.
- **Putting misconnections right:** Surface water [misconnections](#) can really affect how well sewer systems handle rainwater. Many of these misconnections are on private pipework, so we need to ask permission from the landowner before we can put them right.

Our progress



- | | | | |
|---|---------------------------------------|---|-----------------------------------|
|  | Combined Sewer Overflow |  | Completed WinCan Survey |
|  | Surface Water connection under review |  | Completed CCTV survey |
|  | Managed Surface water connection |  | Lining Works in progress |
|  | Red Roofs to be managed |  | Completed Surveys at Marsham Farm |
|  | Treatment Works Optimisation | | |

Our progress

- **Slow the flow:** We've installed 263 slow-drain water butts for residents. These will capture 26,300 litres per rain event, managed 0.52 hectares of impermeable area. We're sourcing alternative sizes of water butts and will be rolling out Phase Two of the installs.
 - **Pipework improvements:** We've carried out 5km of detailed surveys in the catchment on the main sewer spines. We're now reviewing these surveys so we can prepare a programme of works to line the key areas sewer to stop infiltration.
- Our operational colleagues will be starting to reline parts of the sewer of the Waites Lane storm overflow through Wakeham's field February – March 2024
- **Surface water connections:** We're found and sealed eight surface water connections within existing foul manholes, this has now increased the resilience of the system and is managing at least 0.5 hectares of impermeable area.
 - **Optimisation:** We're in the process of reviewing and optimising the way in which we return storm water stored in the storm tanks at the treatment works. We're also reviewing the treatment process for other optimisation opportunities.
 - **Large roof rainwater management:** We're carrying out surveys within the catchment on the large roofs to manage the rainwater runoff from them. If the properties are connected to the foul system, our engineers will be contacting the owners over the coming months with proposals to rectify the connections.
 - **Working collaboratively:** We're working with the Marsham Sewer Trust and the Environment Agency in investigations into how the rainfall induced infiltration impacts the surrounding area.

Section Inspection - 21/11/2023 - TQ8711701X									
Item No.	Resp. No.	Date	Time	Client's Job Ref	Weather	Pre-Cleaned	PIR	PIR	PIR
Operator	Vehicle	Start	End	Start	End	Start	End	Start	End
Operator	Vehicle	Start	End	Start	End	Start	End	Start	End
From or Village	Field	Inspection Direction	Downstream	Downstream	Downstream	Downstream	Downstream	Downstream	Downstream
Manhole	Downstream	Inspected Length	70.07 m	Inspected Length	70.07 m	Inspected Length	70.07 m	Inspected Length	70.07 m
Location	Field	Joint Length	0.00 m	Joint Length	0.00 m	Joint Length	0.00 m	Joint Length	0.00 m
Surface Type	Concrete Highway	Pipe Slope	0.00%	Pipe Slope	0.00%	Pipe Slope	0.00%	Pipe Slope	0.00%
Use	Field	Overlays	170 mm	Overlays	170 mm	Overlays	170 mm	Overlays	170 mm
Type of Pipe	Concrete	Material	Concrete	Material	Concrete	Material	Concrete	Material	Concrete
Flow Control	No flow control	Lining Type	No Lining	Lining Type	No Lining	Lining Type	No Lining	Lining Type	No Lining
Flow Connected	Not specified	Lining Material	No Lining	Lining Material	No Lining	Lining Material	No Lining	Lining Material	No Lining
Inspection Purpose	Search condition survey	Recommendations	See notes	Recommendations	See notes	Recommendations	See notes	Recommendations	See notes
Comments	See notes	Scale	2:200	Scale	2:200	Scale	2:200	Scale	2:200
Depth (m)	Position (m)	Code	Observation	MPS	Photo	Grade			
0.00	0.00	WS	Start note, manhole, reference: TQ8711701	00:00:00					
0.00	0.00	WS	Water level, 9% of the vertical diameter	00:00:31					
0.00	0.00	F50	Fractures, multiple at joint from 8 o'clock to 12 o'clock	00:01:41	TQ8711701	4			
0.00	0.00	B	Broken pipe from 3 o'clock to 6 o'clock	00:02:03	TQ8711701	4			
0.00	0.00	RPL	Point repair, localised being from 12 o'clock to 12 o'clock	00:02:26	TQ8711701	2			
0.00	0.00	MVC	Pipe material changes to vitrified clay at this point	00:02:42					
0.00	0.00	F50	Fractures, multiple at joint from 4 o'clock to 12 o'clock	00:03:01	TQ8711701	4			
0.00	0.00	R5J	Rocks, fine silted	00:03:53	TQ8711701	2			
0.00	0.00	R5J	Rocks, fine silted	00:04:07	TQ8711701	2			
0.00	0.00	R5J	Rocks, fine silted	00:04:17	TQ8711701	2			
0.00	0.00	B	Broken pipe from 3 o'clock to 10 o'clock	00:04:23	TQ8711701	4			
0.00	0.00	R5J	Rocks, fine silted	00:04:36	TQ8711701	2			
0.00	0.00	F50	Fractures, circumferential at joint from 2 o'clock to 11 o'clock	00:04:53	TQ8711701	3			
0.00	0.00	R5J	Rocks, fine silted	00:05:06	TQ8711701	2			

Upcoming

- **Pathfinder surveys:** We'll be in the catchment with our operational colleagues to carry out a health check and clean of the combined sewer overflows throughout **March 2024**
- **CCTV surveys:** CCTV surveys are continuing in target areas – **March 2024**
- **Redundant main to the treatment works:** We're working with landowners to gain access to the field leading to the treatment works, we'll then be carrying out surveys on the redundant main. This is part of our infrastructure optimisations – **March 2024**
- **Treatment works optimisation** – Work is ongoing to optimise the treatment process on our treatment works.

