

SHEFFIELD CITY COUNCIL

FLOOD AND WATER MANAGEMENT ACT 2010

SECTION 19 REPORT:
INVESTIGATION OF A FLOODING INCIDENT AT
CHESTERFIELD ROAD, SHEFFIELD

REPORT DATE: 23rd September 2019

1.0 Introduction

1.1 Sheffield City Council has undertaken an investigation into flooding that occurred on 4th August 2019 at Chesterfield Road, Sheffield between Valley Road and Saxon Road.

1.2 The City Council investigated the incident as Lead Local Flood Authority (LLFA) in accordance with its duties under section 19 of the Flood and Water Management Act 2010.

2.0 Risk Management Authorities

2.1 The risk management authorities (RMAs) having relevant flood risk management functions relating to the incident are:

- Sheffield City Council (SCC) as the highway authority represented by the Streets Ahead contractor, Amey;
- Yorkshire Water (YW) as the sewerage undertaker for the Sheffield area.

3.0 Impact of Flooding and Immediate Action

3.1 The area affected by the flooding on Chesterfield Road is shown on the plan at appendix A to this report. This included a raised car park area and the Chesterfield Road highway.

3.2 Sheffield City Council's Streets Ahead contractor, Amey LG, attended the scene during the incident installing warning signs and cones on the Chesterfield Road highway.

3.3 Photographic evidence of the incident indicates that the floodwater was issuing from sewer manholes in the highway and also cascading onto the road from a raised car park that is known to contain an overflow sewer pipeline (see plan). Amey immediately reported the incident to Yorkshire Water.

3.4 Yorkshire Water attended the scene and made the site safe before returning to undertake repairs to manhole covers and cleanse the area.

3.5 Photographic evidence indicates that the volume and velocity of flood water entering the public highway was such that the flooding presented a risk to the safety of pedestrians and motorists.

3.6 There are reports that a similar flooding incident took place in this location towards the end of July 2019.

4.0 Cause of Flooding

4.1 Eye witness reports confirm that flood water issued from the sewer manholes within the Chesterfield Rd carriageway and from the sewer overflow chamber within the elevated car park. Site evidence indicated the presence of sewage debris on the banking to the elevated car park

4.2 Yorkshire Water surveys of the local sewer system identified an obstruction within the Chesterfield Road sewer. The obstruction was partially removed, however, due to the nature of the material further clearance works were necessary. This obstruction is considered to have resulted in:

- a. Surcharging of flow within the sewer system on Chesterfield Rd at this location causing flooding onto the carriageway;
- b. Surcharging of flow within the overflow sewer pipeline causing flooding to the elevated car park area.

5.0 Remedial Action

5.1 Yorkshire Water completed clearance works within the Chesterfield Road sewer during week ending 22nd September 2019. Difficulties having been experienced due to the size, location and nature of the material.

5.2 The location has been placed on Amey's highway flooding hotspots list and will be monitored for future flooding as part of Amey's emergency flood response plan.

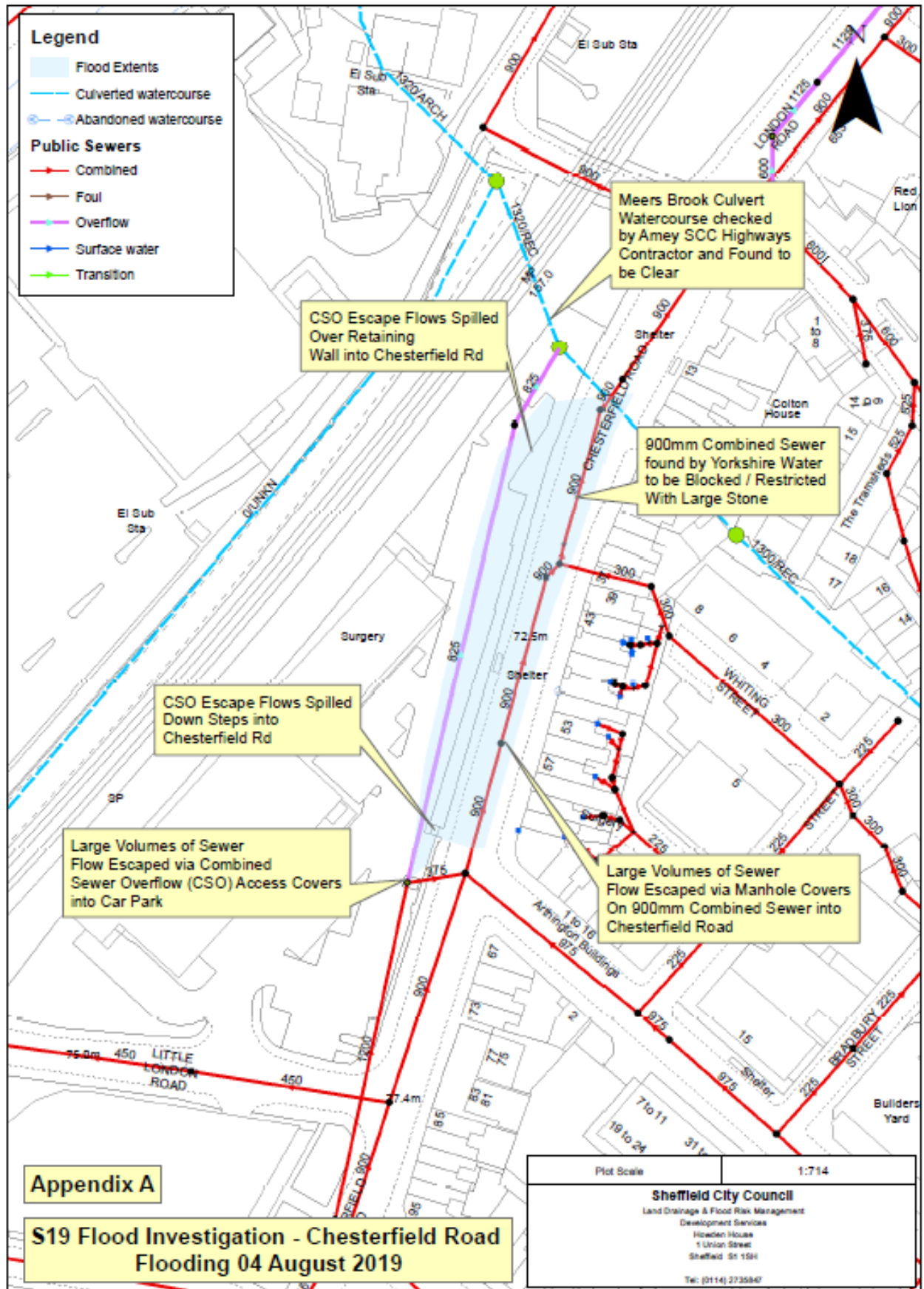
23rd September 2019

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Appendix A - Report Plan



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