

Flood Investigation Report

Upon learning of the following flood event the Council determined it was necessary to carry out an investigation under Section 19 (1) of the Flood and Water Management Act in order to determine which risk management authorities had relevant flood risk management functions and whether each of those risk management authorities had exercised or was proposing to exercise those functions in response to the flood. In accordance with Section 19 (2) of the Flood and Water Management Act this report details the results of the investigation.

Details of the flood event

Reference: 25042012/SO163LF
Daisy Dip

Date of flood event: 25th April 2012 **Date flood event was reported to SCC:** 30th April 2012

Date Investigating Officer was informed: 8th May 2012 **Date of investigation:** 10th May 2012
16th May 2012

Reason for investigation: Frequency of flooding

Location: Daisy Dip (Eastern section of the park)

Duration: Less than 12 hours

Identified source(s): Surface water runoff from surrounding areas during and following rainfall events (Photos 1 – 2).

Cause/pathway: Damaged surface water sewer infrastructure (Figure 1, Photos 3 – 4)

Photos:



Photo 1: Surface water flooding during a heavy rainfall event (25th April 2012) (Photo taken by resident)



Photo 2: Surface water runoff during a moderate rainfall event (10th May 2012)



Photo 3: Area with suspected damaged surface water sewer



Photo 4: Damaged manhole

Extent of flooding:

Water initially accumulates within the Daisy Dip playing fields, but with increased runoff the levels reach a threshold that results in water flowing to a lower section of the park towards the most easterly direction. Once the water level within the lower section reaches a threshold it results in water flowing into the garden of one of the properties backing onto the park. This provides a flow path for the water to travel along the gardens of approximately 10 properties due to the topography.

History of flooding:

Residents report that this issue has been ongoing for approximately 10 years but it has been getting progressively worse in recent years. Surface water flooding incident recorded on Bluebell Road in December 2007 (unknown if it's directly related to the issue within Daisy Dip). A subsequent flood event at this location was reported on 11th June 2012.

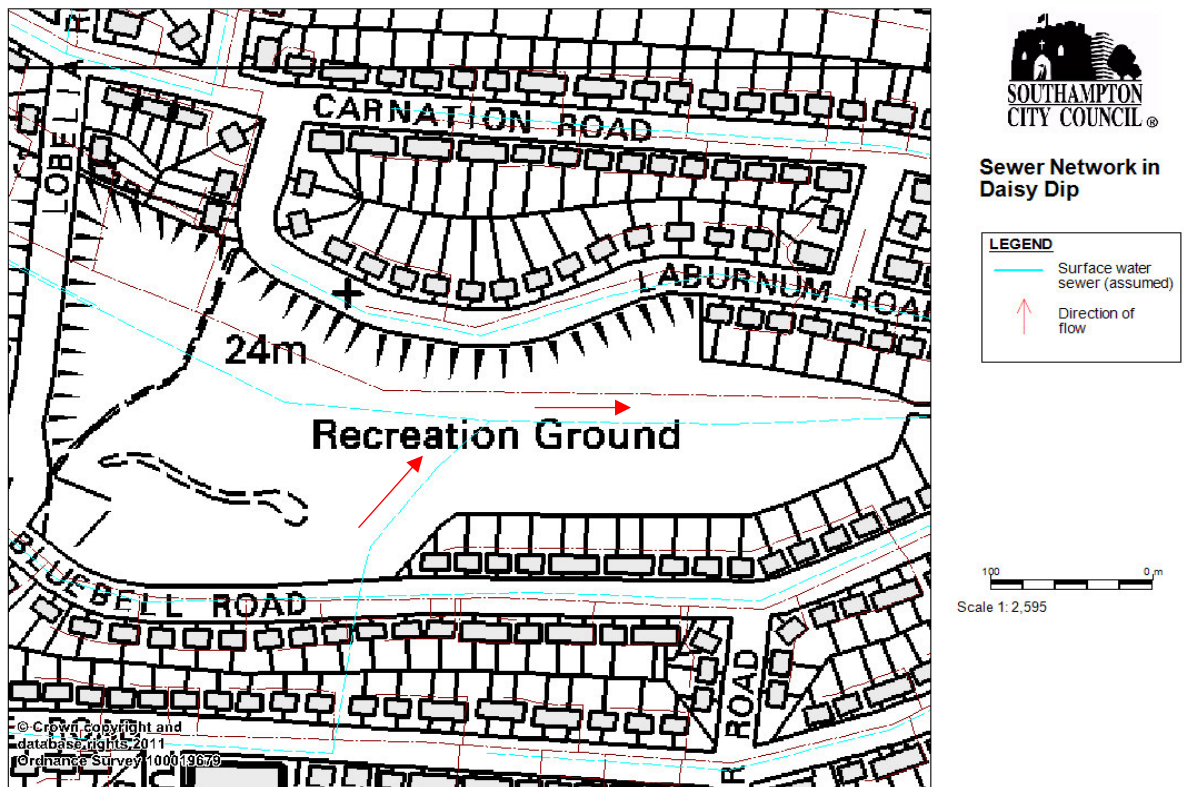


Figure 1: Surface Water Sewer Network (assumed) through Daisy Dip

Outcome of the investigation

Risk management authorities identified as having a relevant flood risk management function(s) in relation to the flood event.

Risk Management Authority: Southern Water

Flood Risk Management Function: Water & Sewerage operator

Date of notification: 16th May 2012/1st June 2012

Method of notification: Email/contacted technical call centre

Action/proposed action in response: Sewer crew (working on behalf of Southern Water) attended the site on 2nd June 2012. Once shown the problem they indicated that the surface water sewer and manhole covers were in need of civil intervention. Southern Water will ascertain, following further site visits, what they will do to remedy this issue.

Additional comments: Requested that SCC is kept informed of progress.

Date completed: 7th June 2012

Completed by: Bernadine Maguire (Flood Risk Management Officer)

Verified by: Chris Lyons (Planning & Development Manager)