

# Peacehaven, Newhaven and Seaford Surface Water Management Plan



Source-Pathway-Receptor Analysis of Flood Risk Areas

Flood Risk Area	Receptor	Type of Flooding	Source	Pathway	Evidence	
<b>Peacehaven</b>						
a	Gorham's Lane, Telscombe	Highly vulnerable' infrastructure (hall)	Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies.	Surface water runoff from nearby hills flows down and ponds in topographic low of valley. SW sewers, gullies and drains.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
b	Telscombe Cliffs (west of and including Ambleside Drive)	Commercial and residential properties; 'more vulnerable' infrastructure (primary school)	Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies and/or insufficient capacity. Problems with paving/kerbstones/ramp at various points along Ambleside Avenue and on Grassmere Avenue causing ponding.	Surface water runoff ponds in topographic lows. SW sewers, gullies, drains and manholes. Ponding due to uneven paving.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Sewer	SW drainage network: surcharging manholes/gullies due to insufficient network capacity.	SW sewers, gullies, drains and manholes.	Southern Water Network Model, Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies.	Surface water runoff ponds in localised topographic lows. SW sewers, gullies and drains.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
c	Peacehaven North (north of Firlie Road)	Commercial and residential properties	Sewer	SW network leaks, blocked manholes.	SW sewers, manholes.	Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies.	Surface water runoff ponds in localised topographic lows. SW sewers, gullies and drains.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
d	Peacehaven West (south of Firlie Road, Lincoln Avenue to Bramber Avenue)	Commercial and residential properties; 'more vulnerable' infrastructure (infant school, junior school, school, surgery)	Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked or broken drains/gullies and/or insufficient capacity.	Surface water runoff ponds in localised topographic lows. SW sewers, gullies, drains and manholes.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Sewer	SW drainage network: large number of surcharging manholes/gullies due to insufficient network capacity.	SW sewers, gullies, drains and manholes.	Southern Water Network Model, SW DG5 Register, Highways PEM Floodings, ESCC Recorded Flooding Incidents
e	Peacehaven East (east of Bramber Avenue)	Commercial and residential properties; 'more vulnerable' infrastructure (dental surgery); 'essential' infrastructure (Peacehaven Wastewater Treatment Works)	Pluvial	Surface water runoff due to heavy rainfall. Basketball court/retention basin near Chichester Close has insufficient drainage capacity and overflows, leading to flooding of nearby properties. SW drainage network unable to provide sufficient drainage due to blocked, broken or raised drains/gullies and/or insufficient capacity.	Surface water runoff ponds in topographic lows. Overflow from retention basin. SW sewers, gullies, drains and manholes.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents, LDC LDC, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Sewer	SW drainage network: surcharging manholes/gullies due to insufficient network capacity.	SW sewers, gullies, drains and manholes.	Southern Water Network Model, SW DG5 Register, Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Note: uFMFSW 1 in 100 year outputs show deep surface water flooding in the region of Peacehaven Wastewater Treatment Works. Discussion with Southern Water has confirmed that surface water flood risk was considered in the design and planning phase of the facility, constructed between 2009 and 2012.			
<b>Newhaven</b>						
f	Newhaven South West	Commercial and residential properties; 'more vulnerable' infrastructure (pre-school, schools, health centre); 'highly vulnerable' infrastructure (halls, community centre)	Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies.	Surface water runoff from nearby hills flows down and ponds in topographic lows (valleys and localised topographic lows). SW sewers, gullies and drains.	uFMFSW (1 in 100yr), ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Sewer	SW drainage network: surcharging manholes/gullies due to insufficient network capacity.	SW sewers, gullies and manholes.	Southern Water Network Model, ESCC Recorded Flooding Incidents
g	Newhaven North West	Commercial and residential properties; 'more vulnerable' infrastructure (school)	Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies and/or insufficient capacity.	Surface water runoff ponds in topographic lows (valleys and localised topographic lows). SW sewers, gullies, drains and manholes.	uFMFSW (1 in 100yr), ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents, Southern Water Network Model
			Sewer	SW drainage network: surcharging manholes/gullies due to insufficient network capacity.	SW sewers, gullies, drains and manholes.	Southern Water Network Model, ESCC Recorded Flooding Incidents
h	Newhaven North East	Commercial and residential properties; 'more vulnerable' infrastructure (school); 'highly vulnerable' infrastructure (community centre)	Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies.	Surface water runoff ponds in topographic lows (valleys and localised topographic lows). SW sewers, gullies and drains.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Sewer	SW drainage network: surcharging manholes/gullies due to insufficient network capacity.	SW sewers, gullies and manholes.	Southern Water Network Model, ESCC Recorded Flooding Incidents
i	Newhaven South East	Commercial and residential properties; 'essential infrastructure' (A259); 'highly vulnerable' infrastructure (community centre)	Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies and/or insufficient capacity.	Surface water runoff ponds in localised topographic lows. SW sewers, gullies, drains and manholes.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Sewer	SW drainage network: surcharging manholes/gullies due to insufficient network capacity.	SW sewers, gullies, drains and manholes.	Southern Water Network Model
<b>Seaford</b>						
j	Seaford North/West (north of Belgrave Road and west of Firlie Road)	Commercial and residential properties; 'essential infrastructure' (A259, railway)	Pluvial	Surface water runoff due to heavy rainfall. Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies and/or insufficient capacity.	Surface water runoff ponds in topographic lows, including the Bishopstone stream valley. Raised embankment of Newhaven Road causes ponding behind it, contributing to flooding of Bishopston Road. SW sewers, gullies, drains and manholes.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents uFMFSW (1 in 100yr) Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Sewer	SW drainage network: surcharging manholes /gullies due to insufficient network capacity - particularly around Buckle Drive and Marine Parade.	SW sewers, gullies, drains and manholes.	Southern Water Network Model, SW DG5 Register, Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies and/or insufficient capacity. Problem areas along Claremont Road and Brooklyn Road.	Surface water runoff ponds in topographic lows, most notably in the valley that extends from Alfriston Road down through Vale Road and Brooklyn Road to Seaford Station. SW sewers, gullies, drains and manholes.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents, LDC Highways PEM Floodings, ESCC Recorded Flooding Incidents
k	Seaford Central (between Belgrave Road/Firlie Road and Sutton Road/Eastbourne Road)	Commercial and residential properties; 'more vulnerable' infrastructure (schools, veterinary surgery, electricity substation, pumping station); 'highly vulnerable' infrastructure (hall); 'essential infrastructure' (railway)	Sewer	Pump failure at Brooklyn Road pumping station. SW drainage network: surcharging manholes/gullies due to insufficient network capacity - particularly around Brooklyn Road.	Overflow from pumping station floods nearby properties. SW sewers, gullies, drains and manholes.	LDC Southern Water Network Model, SW DG5 Register, Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies and/or insufficient capacity.	Surface water runoff ponds in topographic lows, including east of Fitzgerald Avenue. SW sewers, gullies, drains and manholes.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents
l	Seaford South/East (south of Sutton Road/ Eastbourne Road)	Commercial and residential properties; 'more vulnerable' infrastructure (clinic, convent, college); 'highly vulnerable' infrastructure (hall)	Sewer	SW drainage network: surcharging manholes due to insufficient network capacity - particularly around Steyne Road.	SW sewers, gullies, drains and manholes.	Southern Water Network Model, SW DG5 Register, Highways PEM Floodings, ESCC Recorded Flooding Incidents
			Pluvial	Surface water runoff due to heavy rainfall. SW drainage network unable to provide sufficient drainage due to blocked drains/gullies and/or insufficient capacity.	Surface water runoff ponds in topographic lows, including east of Fitzgerald Avenue. SW sewers, gullies, drains and manholes.	uFMFSW (1 in 100yr), Highways PEM Floodings, ESCC Recorded Flooding Incidents Highways PEM Floodings, ESCC Recorded Flooding Incidents