

# Annex D

## Summary Reports of S19 Investigations

### Walton-on-Thames

#### Felix Lane/Ash Estates, Shepperton, Enquiry Reference 105446

This report examines the flooding events caused by Storm Henk in January 2024 in the Ash Estates area. The investigation complies with the requirements of Section 19 of the Flood and Water Management Act 2010.

The Ash Estates area sits adjacent to the river Thames and has a marina on the northwest side. It sits completely within the EA's Flood Zone 3 and is a private road with no publicly maintained highway drainage system

#### Flood Event Description

##### Source of flooding:

The reported flooding issues in the Ash Estates area seem to be caused primarily by the fluvial flooding from the Thames and the connected marina, starting from 5th January. The pathways of the floodwater initially came from the marina and possibly groundwater emergence as the Thames River levels rose, with the water from the banks of the Thames overtopping a few days later as the river levels neared their peak for this flood event.

##### Receptor of flood water:

The first point of flooding occurred on the low point of the road outside 1 Felix Lane. The depth of flooding on the highway was great enough to become impassable to most vehicles and therefore prevented many residents from leaving the estate via car. Many properties have raised habitable areas, so (with one exception) the rising river levels did not cause internal flooding of the properties affected. However, many properties did experience some flooding of outbuildings and garages where these were situated at or near ground level with some depths high enough to prevent residents from leaving their properties. Some of this flooding was exacerbated by cars driving quickly to get through the flooded sections of the road. The foul services for most properties in this area were affected during the flood event. This would likely be due to water infiltrating into the foul system and preventing it from functioning correctly.

Number of properties flooded internally: 1

Number of properties flooded externally: 57

#### Recommendations

The Environment Agency should consider the following:

- Review the issues reported by the residents regarding the warning system consider improvements to how the warnings are communicated to the residents, so they are better understood.

### **Elmbridge Borough Council should consider the following:**

- Consider a solution to the issue of the 3 vulnerable residents not having access to their carers during a flood event that makes the road impassable.

### **Landowners/Residents should consider the following:**

- Ensure appropriate maintenance of privately owned watercourses and surface water drainage systems.
- Continue to maintain and develop their existing Community Flood Action Plans.
- Applying for the property flood resilience grant of up to five thousand pounds if they are eligible; this can be found on <https://www.surreycc.gov.uk/community/emergency-planning-and-community-safety/flooding> under 'Storm Henk Recovery Grant Funding'.
- Signing up for flood warnings if they haven't already - <https://www.gov.uk/sign-up-for-flood-warnings>
- Reporting any issues with the foul sewers to Thames Water (See main catchment report for further details).

## **Actions taken/to be taken**

### **Environment Agency**

- • Officer(s) attended the River Ash Estate on 9 January 2024, speaking to the residents and taking photos of the flooding.
- • Issued flood warning on 08/01/2024 for the warning area "Properties closest to the River Thames from Shepperton Lock to Beasley's Ait".

# Flood Summary Map



# Walton-on-Thames

## Wheatley's Eyot (and surrounding roads) Enquiry Reference 105087

This report examines the flooding events caused by Storm Henk in January 2024 in the Ash Estates area. The investigation complies with the requirements of Section 19 of the Flood and Water Management Act 2010.

The Creek, Willow Way and Parke Road sit adjacent to the River Thames, whilst Wheatley's Eyot is an island within the river. These areas sit completely within the EA's Flood Zone 3 and are all private roads with no publicly maintained highway drainage system.

### Flood Event Description

The reported flooding issues in Wheatley's Eyot are caused primarily by the fluvial flooding from the Thames, starting from 5th January. The pathways of the floodwater came from overtopping of the banks on the southeastern side as the Thames River levels rose, with the water from the banks of the Thames overtopping a few days later as the river levels neared their peak for this flood event.

Based on reports from the residents, the main source of the flood water affecting properties in The Creek, Willow Way and Parke Road seem to come from groundwater emergence in adjacent land which then flowed into the surrounding gardens and the low-lying parts of the roads. This was exacerbated by the high-water table preventing the surface water drainage from being able to cope with any additional rainfall or surface water runoff.

During the flood event, a loose boat crashed into Sunbury Weir, partially blocking it. Residents reported that this may have had an impact on the flooding mechanisms, as the northern end of the island was one of the first locations to flood – this area is slightly higher than the rest of the island and is usually the last part to flood when river levels rise.

The properties in Wheatley's Eyot are raised above ground level and the impacts of the flooding were mainly external issues such as damage to gardens and sheds and residents being unable to leave the properties whilst the flood water was high and fast flowing. One exception was an instance of internal property flooding of a basement, which caused significant damage to appliances stored there.

The properties in Parke Road, Willow Way and The Creek experienced a mix of internal and external flooding issues, with some of the internal floods relating to the flooding of habitable outbuildings and/or cavities under the habitable parts of the property.

Number of properties flooded internally: **4**

Number of properties flooded externally: **33**

### Recommendations

**The Environment Agency should consider the following:**

- Review the issues reported by the residents regarding the warning system consider improvements to how the warnings are communicated to the residents, so they are better understood.

## **Landowners/Residents should consider the following:**

- Ensure appropriate maintenance of privately owned watercourses and surface water drainage systems.
- Develop/maintain Community Flood Action Plans.
- Applying for the property flood resilience grant of up to five thousand pounds if they are eligible; this can be found on <https://www.surreycc.gov.uk/community/emergency-planning-and-community-safety/flooding> under 'Storm Henk Recovery Grant Funding'.
- Signing up for flood warnings if they haven't already - <https://www.gov.uk/sign-up-for-flood-warnings>
- Reporting any issues with the foul sewers to Thames Water (See main catchment report for further details).

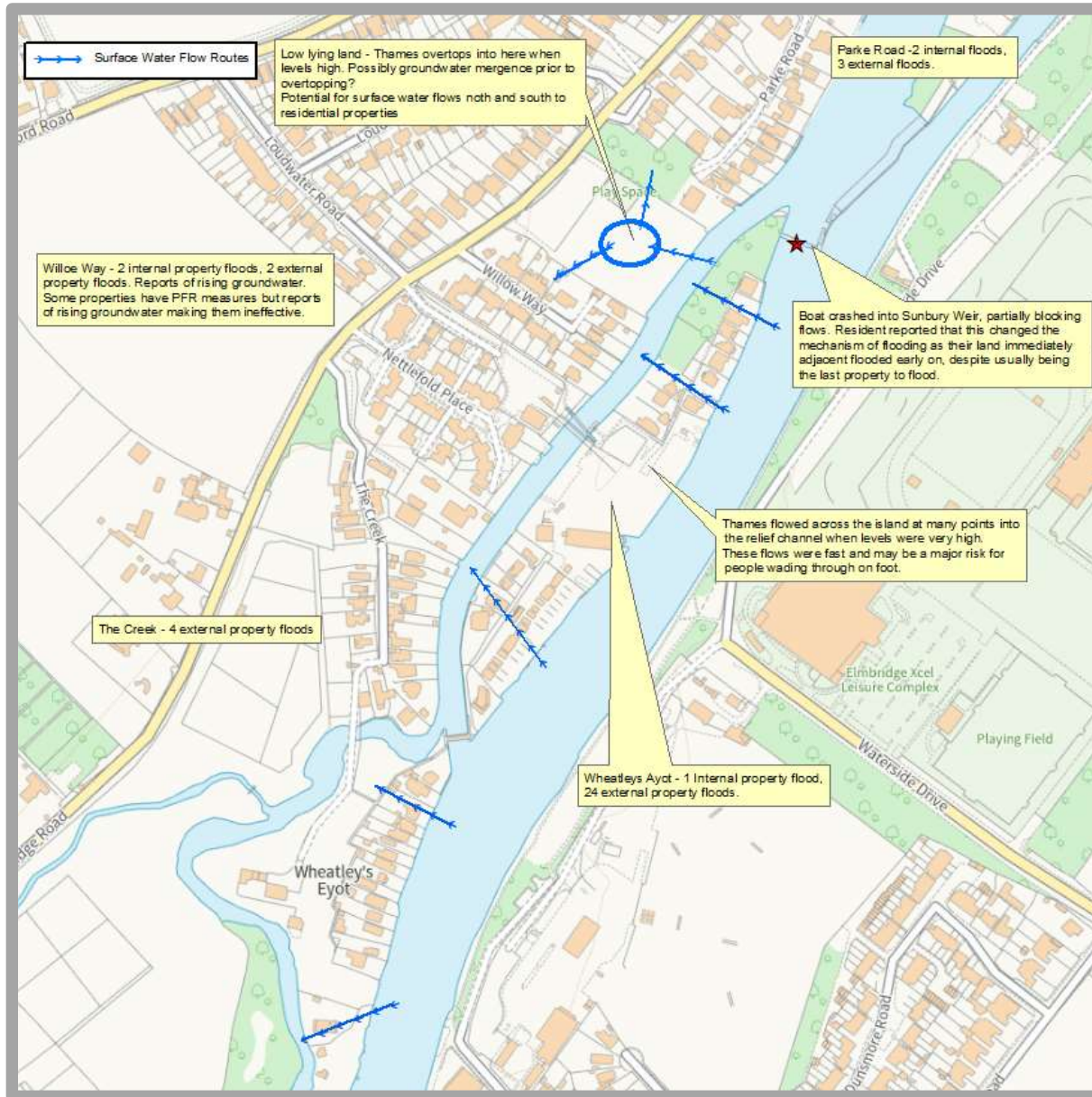
## **Actions taken/to be taken**

### **Environment Agency**

- Issued flood warning on 08/01/2024 for the warning area "Properties closest to the River Thames from Shepperton Lock to Beasley's Ait".
- Officer(s) visited Willow Way and the Creek on 6 Jan 2024, taking photos of the flooding. Officers visited Wheatley's Eyot and The Creek on 10 Jan 2024, taking photos of the flooding.



# Flood Summary Map



# Walton-on-Thames

## Las Palmas Estate and Desborough Island, Shepperton, Enquiry Reference 105460

This report examines the flooding events caused by Storm Henk in January 2024 in the Ash Estates area. The investigation complies with the requirements of Section 19 of the Flood and Water Management Act 2010.

This area relates to the area between Russel Road and the River Thames, nominally referred to as Las Palmas Estate, and Desborough Island. Both these areas fall with EA Flood Zone 3 (except for a raised part of land in the centre of Las Palmas Estate). The River Thames flows adjacent to both areas and there is a smaller watercourse running along the north of Las Palmas Estate which discharges into the Thames.

### Flood Event Description

Source of flooding:

The source of flooding for the Las Palmas Island area was a combination of the River Thames levels rising and spilling out of bank on the East side of the island, and the ditch along the north side of the island backing up from the Thames and spilling out of bank to the south. There may have been some groundwater emergence from the lowest lying areas of land near the Thames as the river levels rose, but there is no reported evidence to confirm this.

The source of flooding for the sports club was the River Thames levels rising out of banks and spilling across the low-lying land within Flood Zone 3.

Receptors of flood water:

The ditch to the north flooded the low-lying land along the north of Las Palmas Estate, blocking access roads and the pedestrian access route over the footbridge to a children's nursery. This flooding also impacted the nursery, causing external damage and flooding the septic tank. Some properties along Sandhills Meadow reported internal or external flooding as well as being unable to leave their houses due to the access road becoming impassable for vehicles. Additionally, a property on Manygate Lane reported external flooding. However, the source of this flooding was likely the rising groundwater table rendering the soakaways ineffective and being unable to allow the surface water to drain until the groundwater levels dropped sufficiently.

Just across the river from Sandhills Meadow on Desborough Island is a sports club. By the 10 January, it was reported that large sections of the sports club had flooded. This flooding had significant financial impact on the club due to the need to close for 2 weeks and the expenses required for cleanup.

Number of properties flooded internally: **4**

Number of properties flooded externally: **14**

### Recommendations

**Landowners/Residents should consider the following:**

- Ensure appropriate maintenance of privately owned watercourses and surface water drainage systems.
- Develop/maintain Community Flood Action Plans.
- Applying for the property flood resilience grant of up to five thousand pounds if they are eligible; this can be found on <https://www.surreycc.gov.uk/community/emergency-planning-and-community-safety/flooding> under 'Storm Henk Recovery Grant Funding'.
- Signing up for flood warnings if they haven't already - <https://www.gov.uk/sign-up-for-flood-warnings>
- Reporting any issues with the foul sewers to Thames Water (See main catchment report for further details).

## **Actions taken/to be taken**

### **Environment Agency**

- Issued flood warning on 08/01/2024 for the warning area "Properties closest to the River Thames from Shepperton Lock to Beasley's Ait".
- Officer(s) visited Sandhills Meadow on 9 Jan 2024 to speak to resident and take photos.



# Flood Summary Map



# Walton-on-Thames

## Fordbridge Road, Sunbury-on-Thames, Enquiry Reference 148349

This report examines the flooding events caused by Storm Henk in January 2024 in the Ash Estates area. The investigation complies with the requirements of Section 19 of the Flood and Water Management Act 2010.

This area relates to Fordbridge Park, a residential park bounded by Fordbridge Road and Beasley's Ait Lane. The River Ash runs through this park, and discharges into the River Thames about 500m downstream, at Wheatley's Ait. This area sits completely within the EA's Flood Zone 3.

### Flood Event Description

#### Source of flooding:

The source of flooding for Fordbridge Park was the upstream flow of water along the River Ash, which backed up when the River Thames levels were too high for it to discharge into.

#### Pathway of flood water:

The River Ash joins the River Thames at this location, crossing under Fordbridge Road and passing through the Fordbridge Caravan Park. The high levels of the Thames prevented the River Ash from discharging as normal and on the evening of 5 January, the water began to overflow out of bank within Fordbridge Park.

#### Receptor of flood water:

The River Ash spilled out of channel, flooding the gardens of properties in Fordbridge Park. There are no reports of internal property flooding, or significant highway flooding where the River Ash passes under Fordbridge Road and Beasleys Ait Lane.

#### Cause of flooding:

The rainfall had already subsided before the flooding issues at the Ash Estates began and the investigation found no evidence of blocked watercourses or drainage assets in this area that would have exacerbated the flooding. Therefore, the flooding was due to Storm Henk raising the river levels within the Thames catchment, forcing the River Ash to back up from the River Thames and spill out of channel.

Number of properties flooded internally: **0**

Number of properties flooded externally: **1**

### Recommendations

**Landowners/Residents should consider the following:**

- Ensure appropriate maintenance of privately owned watercourses and surface water drainage systems.
- Develop/maintain Community Flood Action Plans.

- Applying for the property flood resilience grant of up to five thousand pounds if they are eligible; this can be found on <https://www.surreycc.gov.uk/community/emergency-planning-and-community-safety/flooding> under 'Storm Henk Recovery Grant Funding'.
- Signing up for flood warnings if they haven't already - <https://www.gov.uk/sign-up-for-flood-warnings>
- Reporting any issues with the foul sewers to Thames Water (See main catchment report for further details).

## **Actions taken/to be taken**

### **Environment Agency**

- Issued flood warning on 08/01/2024 for the warning area "Properties closest to the River Thames from Shepperton Lock to Beasley's Ait".

# Flood Summary Map

