

Site CJ3 Land on the corner of Grant Road and Falcon Road, SW11

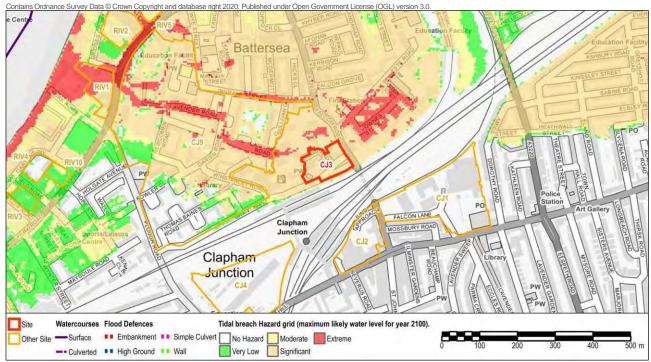


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium, High Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0. Clapham Clapham Junction Risk of Flooding from Surface Wate ☐ Site Watercourses Surface Water High Probability Groundwater Other Site-- Surface Fluvial Medium Proabability

 Multiple Source
 Tidal Figure D - Risk of Flooding from Surface Water (RoFSW)

Culverted

Figure D - Kisk of Flooding Iron Surface Water (KOFSW)				
Critical Drainage Area	Group7_022 Clapham Junction [Group7_022 Clapham Junction [Wandsworth]		
Drainage Catchment	DC2	DC2		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel	
Susceptibility to Groundwa	ter Flooding (BGS)	Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				

Low Probability

Risk of flooding from The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or reservoirs failure of a reservoir. (It is not possible to determine which reservoir).

Site CJ3 Land on the corner of Grant Road and Falcon Road, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 780m to the northwest of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Significant ('danger for most') on the site, and 1-1.5m depth, Significant hazard rating on Falcon Road ('danger for most') for the year 2100. Flood levels on the site are ~4.23m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Falcon Road located east to the site. 16 incidents of surface water flooding have been reported within 500m of the site, and it is located within a Critical Drainage Area (CDA 022, Clapham Junction).

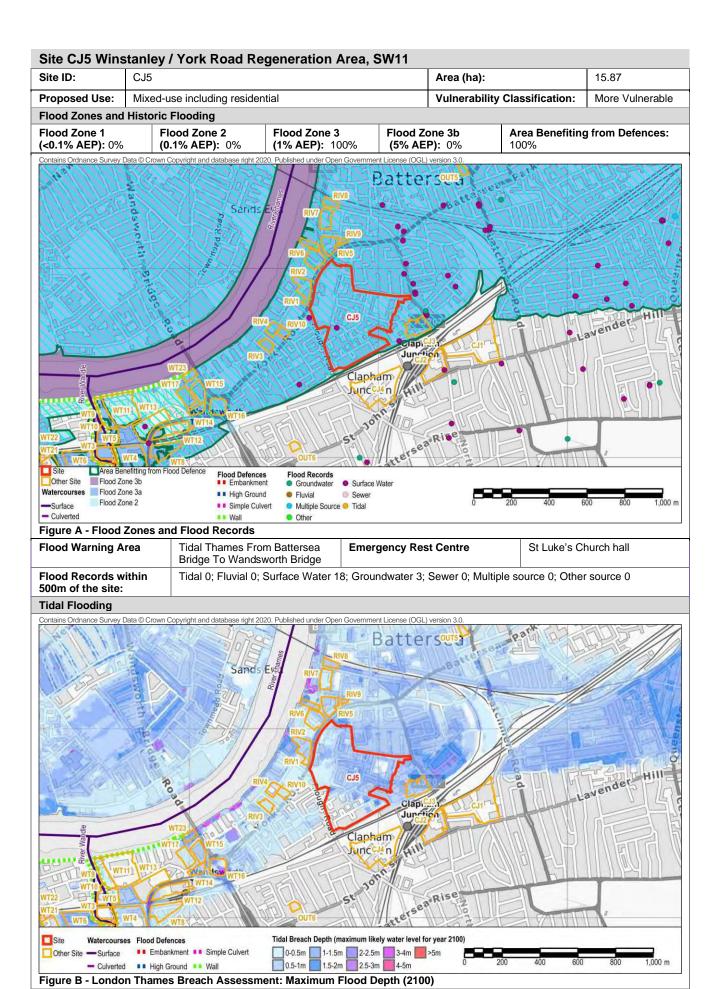
2 incidents of groundwater flooding have been reported within 500m of the site and broadscale mapping indicates the potential for groundwater flooding to occur at surface in this area.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change. The modelled flood level from the London Thames Breach Assessment in this location is ~4.23m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change².
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site CJ5 Winstanley / York Road Regeneration Area, SW11 lapham June CJ4 n Watercourses Flood Defences Tidal breach Hazard grid (maximum likely water level for year 2100). Surface Embankment Simple Culvert No Hazard Moderate Extreme -- Culverted • High Ground • Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Low, Medium, High Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 Batters lapham June Risk of Flooding from Su Site Watercourses Surface Water High Probability Other Site - Surface Fluvial Sewer Medium Proabability Multiple Source Tidal Culverted Figure D - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area Group7_022 Clapham Junction [Wandsworth]

Drainage Catchment DC2

Groundwater Flooding

Bedrock Geology Thames Group - Clay, Silt, Sand and Gravel

Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.

Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)

Other Sources

Risk of flooding from reservoirsThe Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site CJ5 Winstanley / York Road Regeneration Area, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 170m from the northern part of the site boundary. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 2.5-3.0m at areas of the site, with a corresponding hazard rating of Extreme ('danger for all') predominantly on the Maverick Road, and a hazard ratting of Significant ('danger for most') across the remainder of the site for the year 2100. Flood levels across the majority of the site are ~4.3m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on hardstanding areas and roads across the site. 18 incidents of surface water flooding have been reported within 500m of the site, and it is located within a Critical Drainage Area (CDA 022 Clapham Junction).

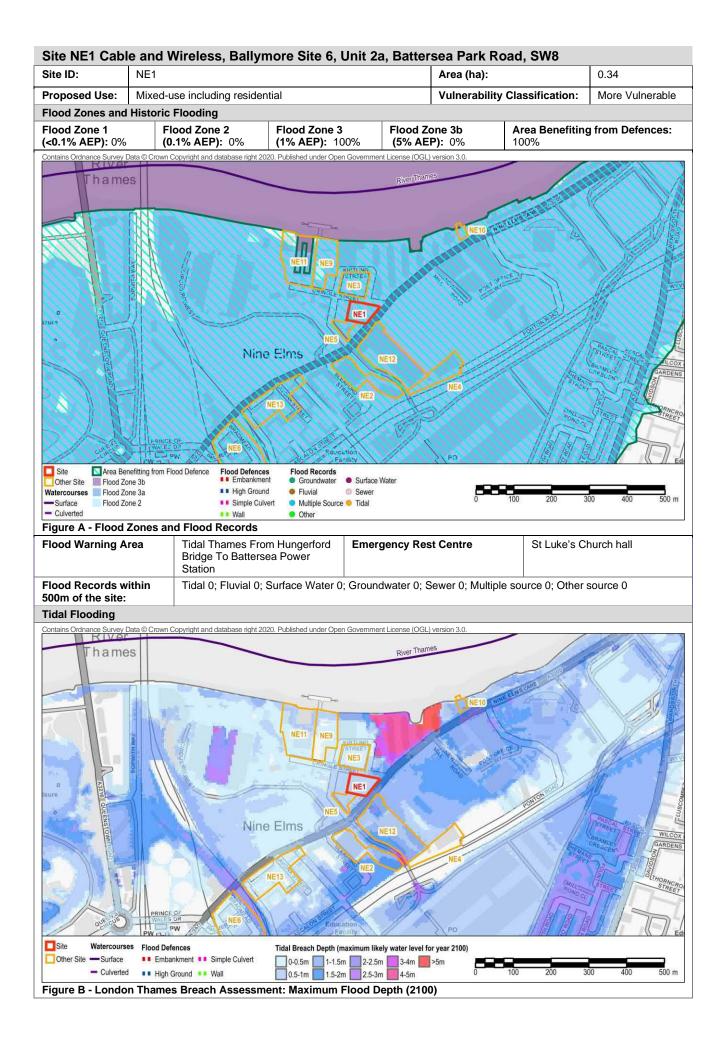
3 incidents of groundwater flooding have been reported within 500m of the site and broadscale mapping indicates the potential for groundwater flooding to occur at surface in this area.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change. The modelled flood level from the London Thames Breach Assessment in this location is ~4.3m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change².
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE1 Cable and Wireless, Ballymore Site 6, Unit 2a, Battersea Park Road, SW8

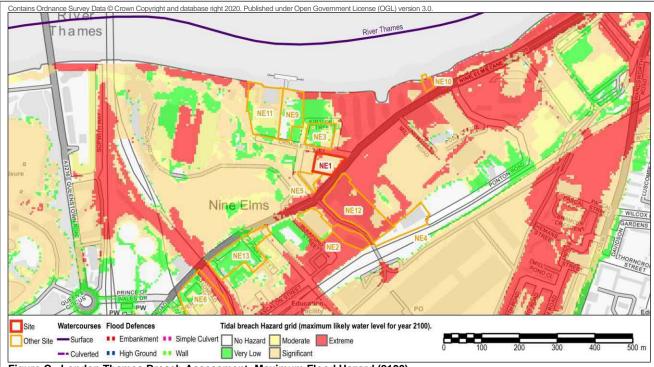


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW)

Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 hames Nine Elms Risk of Flooding from Surface Water Site Watercourses Surface Water High Probability Groundwater Other Site = - Surface Fluvial Medium Proabability Multiple Source Tidal - Culverted Figure D - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None			
Drainage Catchment	DC1			
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		No		
Other Sources				

Risk of flooding from reservoirs

The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site NE1 Cable and Wireless, Ballymore Site 6, Unit 2a, Battersea Park Road, SW8

Summary

The site is located 190m south of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. In the event of a breach, flood water could inundate the site to a depth of 0.5-1m, with a water level of ~5.0m AOD1 on the site and corresponding hazard rating of Significant ('danger for most') on the site, for the year 2100. Along Nine Elms Road, depths could be up to 2m, with an Extreme hazard rating ('danger for all') for the year 2100. Cringe Street which is adjacent to the site has a flood depth of 1-1.5m and an Extreme hazard rating ('danger for all').

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to pond on Cringe Street and flow onto the northern part of the site, and also to flow and pond on Nine Elms Road to the east of the site.

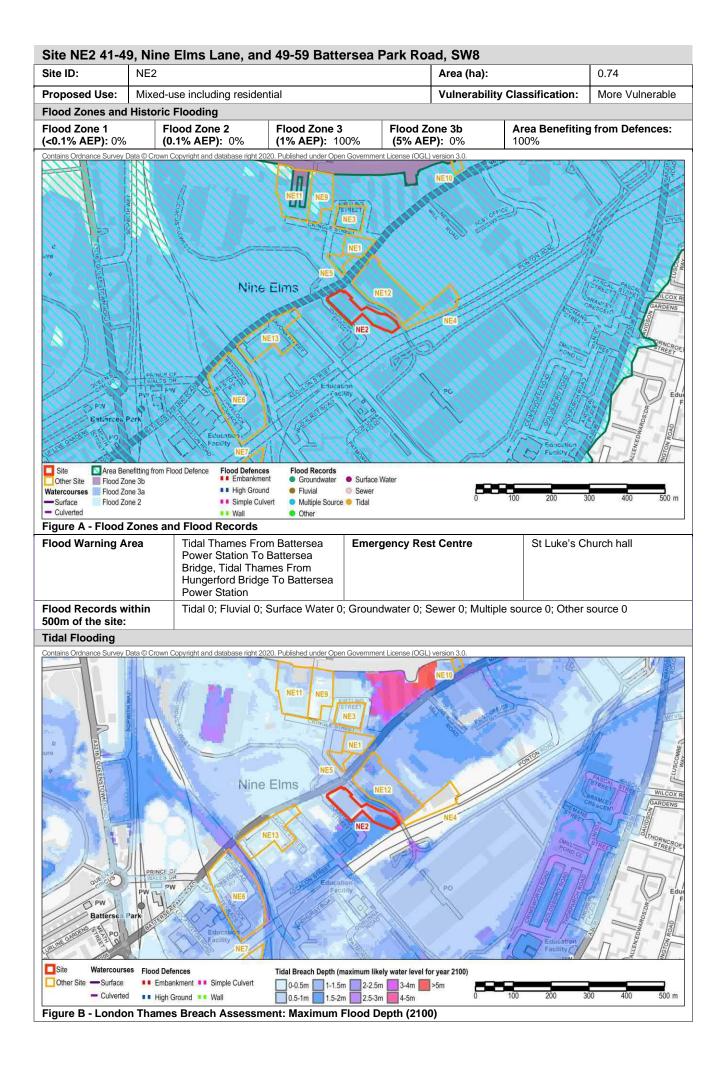
There are no groundwater flooding records in this area. Broadscale mapping suggests there may be potential for groundwater flooding of property situated below ground level in this area.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.0m AOD¹ (for the year 2100).
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Hungerford Bridge To Battersea Power Station. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE2 41-49, Nine Elms Lane, and 49-59 Battersea Park Road, SW8

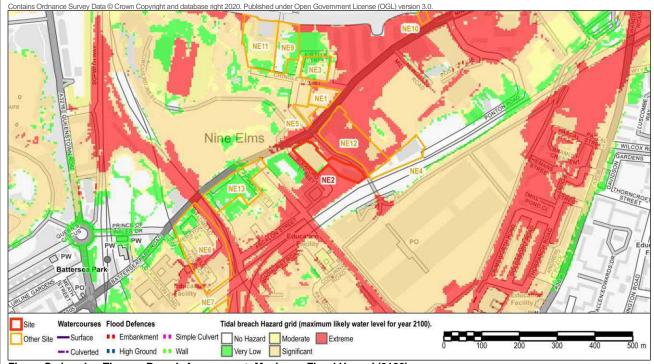


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

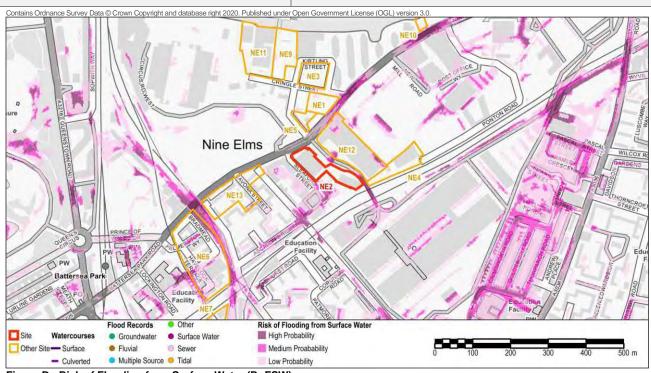


Figure D - Risk of Flooding from Surface Water (RoFSW)

3					
Critical Drainage Area	None	None			
Drainage Catchment	DC1	DC1			
Groundwater Flooding	Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand		
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level. Potential for groundwater flooding to occur at surface.			
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes			
Other Sources					
Risk of flooding from reservoirs					

Site NE2 41-49, Nine Elms Lane, and 49-59 Battersea Park Road, SW8

Summary

The site is located 330m south of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 2.5-3m depth, Extreme hazard rating on Battersea Park Road and Nine Elms Road ('danger for all') for the year 2100. Flood levels on the site are ~4.38-4.91m AOD for the year 2100¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Sleaford Street and the A Road located adjacent to the site.

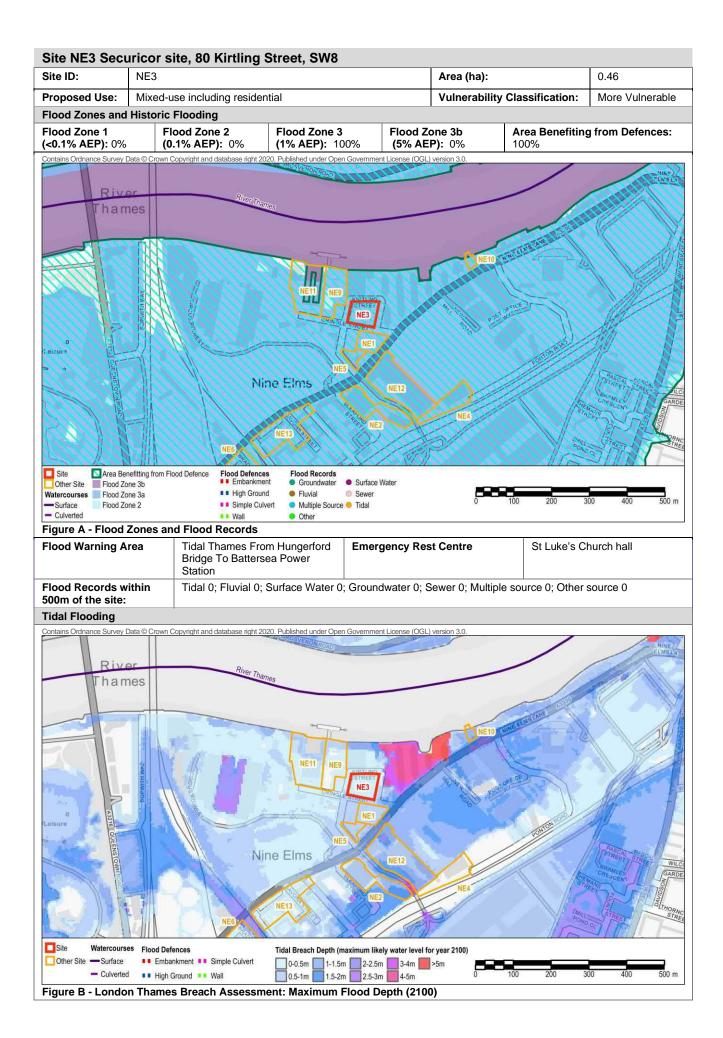
There are no groundwater flooding records in this area. Broadscale mapping suggests that there may be potential for groundwater flooding below ground and at surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from 4.38-4.91m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Power Station To Battersea Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE3 Securicor site, 80 Kirtling Street, SW8 wn Copyright and database right 2020. Published under Op hames Nine Elms Tidal breach Hazard grid (maximum likely water level for year 2100). -- Culverted II High Ground II Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Low Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 hames Nine Elms Risk of Flooding from Surface Water ☐ Site Watercourses Groundwater Surface Water High Probability Other Site - Surface Fluvial Medium Proabability Multiple Source Tidal Culverted Low Probability Figure D - Risk of Flooding from Surface Water (RoFSW) **Critical Drainage Area** None **Drainage Catchment** DC1 **Groundwater Flooding Bedrock Geology** Thames Group - Clay, Silt, Sand **Superficial Geology** Clay, Silt and Sand and Gravel Susceptibility to Groundwater Flooding (BGS) Limited potential for groundwater flooding to occur. Within an area with 'increased potential for elevated No groundwater', as identified in the SWMP (GLA 2011)

The Long Term Flood Risk Map shows that the area to the south of the site could be at risk of flooding, in

the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Other Sources
Risk of flooding from

reservoirs

Site NE3 Securicor site, 80 Kirtling Street, SW8

Summary

The site is located 120m south of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. In the event of a breach, flood water could inundate the site to depths of 0.5m, with flood levels of ~5.0m AOD¹ and a corresponding hazard rating of Significant ('danger for most') on the site, and 1.5-2m depth, Extreme hazard rating on Nine Elms Road ('danger for all') for the year 2100. Cringe Street which is adjacent to the site has a flood depth corresponding to 1-1.5m and an Extreme hazard rating ('danger for all').

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Cringle Street to the south of the site.

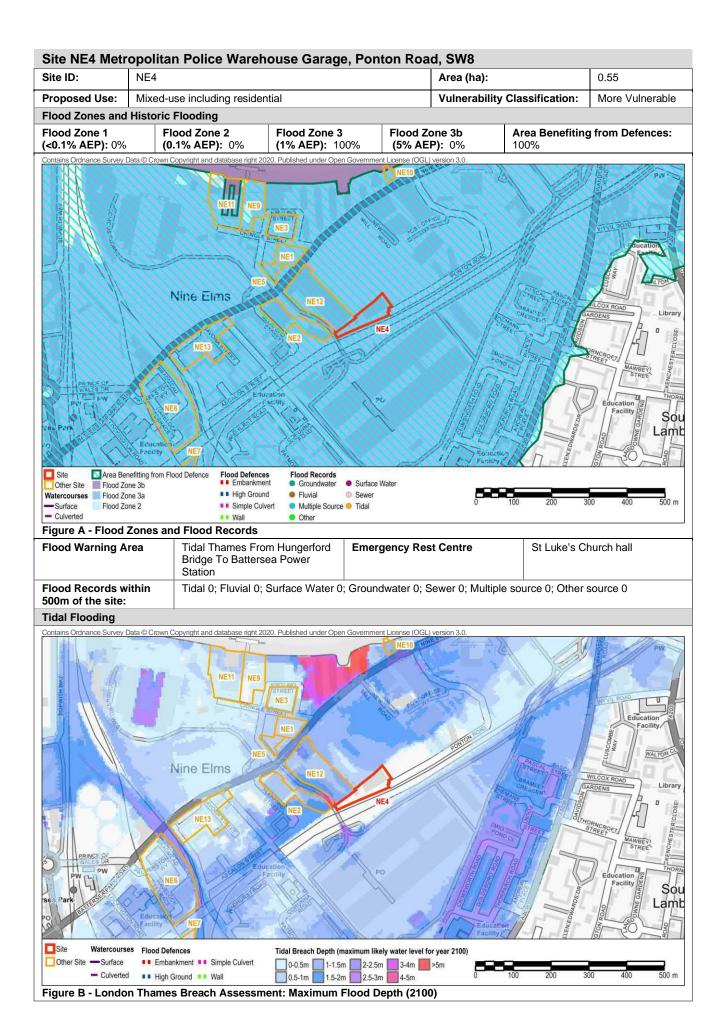
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may have limited potential for groundwater flooding.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.0m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Hungerford Bridge To Battersea Power Station.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE4 Metropolitan Police Warehouse Garage, Ponton Road, SW8 Nine Elms Tidal breach Hazard grid (maximum likely water level for year 2100). Surface Embankment Simple Culvert No Hazard Moderate Extreme -- Culverted II High Ground II Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Low Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 Nine Elms Risk of Flooding from Surface Water ☐ Site Watercourses Surface Water High Probability - Surface Fluvial Medium Proabability Multiple Source Tidal Culverted Figure D - Risk of Flooding from Surface Water (RoFSW) **Critical Drainage Area** None **Drainage Catchment** DC1 **Groundwater Flooding** Thames Group - Clay, Silt, Sand Clay, Silt and Sand **Bedrock Geology Superficial Geology** and Gravel Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.

Yes

event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

The Long Term Flood Risk Map shows that the area surrounding the site could be at risk of flooding, in the

Within an area with 'increased potential for elevated

groundwater', as identified in the SWMP (GLA 2011)

Other Sources
Risk of flooding from

reservoirs

Site NE4 Metropolitan Police Warehouse Garage, Ponton Road, SW8

Summary

The site is located 350m south of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the northern part of the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0-0.5m, with flood levels ~5.0m AOD¹ and a corresponding hazard rating of Moderate ('danger for some') on the site, and 2.0-2.5m depth, Extreme hazard rating on Ponton Road and Nine Elms Road ('danger for all') for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on the western edge of the site, on Ponton Road to the east of the site, and Nine Elms Road to the north of the site.

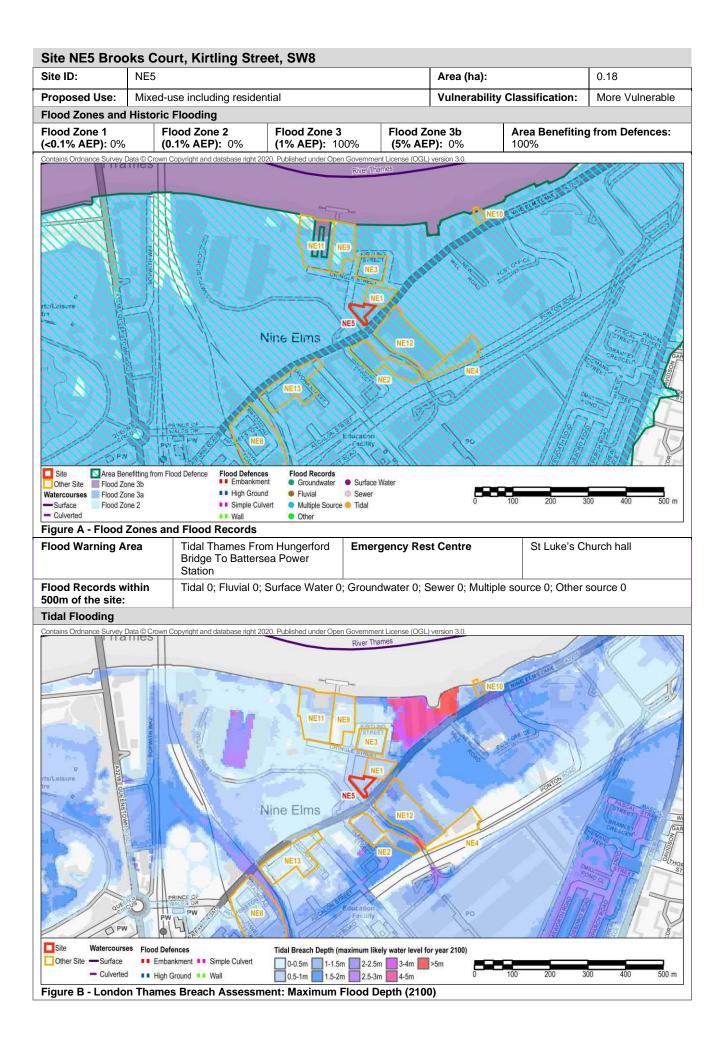
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.0m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Hungerford Bridge To Battersea Power Station. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE5 Brooks Court, Kirtling Street, SW8

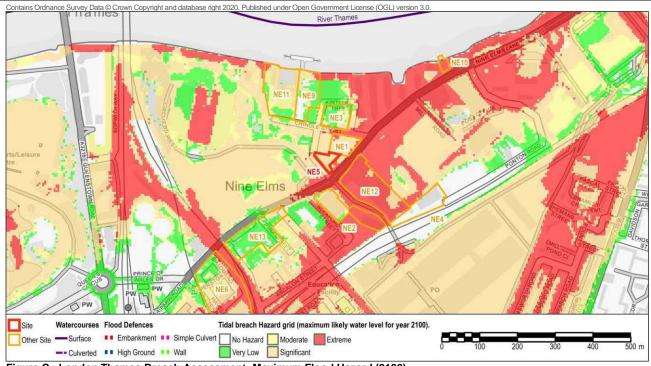


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

reservoirs

Risk of Flooding from Surface Water (RoFSW) Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 River Thames Nine Elms Risk of Flooding from Surface Wate ☐ Site Surface Water High Probability - Surface Fluvial Medium Proabability Multiple Source
 Tidal Culverted Low Probability Figure D - Risk of Flooding from Surface Water (RoFSW)

Low

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Critical Drainage Area	None				
Drainage Catchment	DC1	DC1			
Groundwater Flooding	·				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel				
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level. Potential for groundwater flooding to occur at surface.			
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		No			
Other Sources		•			
Risk of flooding from	The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or				

failure of a reservoir. (It is not possible to determine which reservoir).

Site NE5 Brooks Court, Kirtling Street, SW8

Summary

The site is located 220m south of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-0.1m¹, with a corresponding hazard rating of Significant ('danger for most') on the site, and 1.5-2m depth, Extreme hazard rating on Nine Elms Road ('danger for all') for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Nine Elms Road to the south of the site.

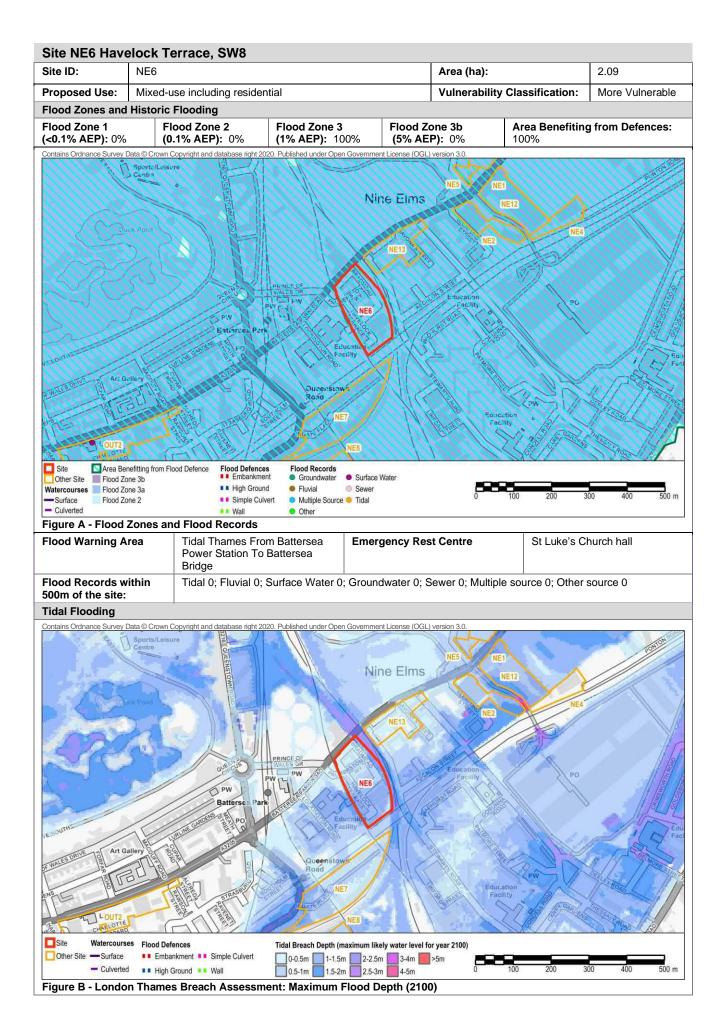
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~4.9m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Hungerford Bridge To Battersea Power Station. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE6 Havelock Terrace, SW8

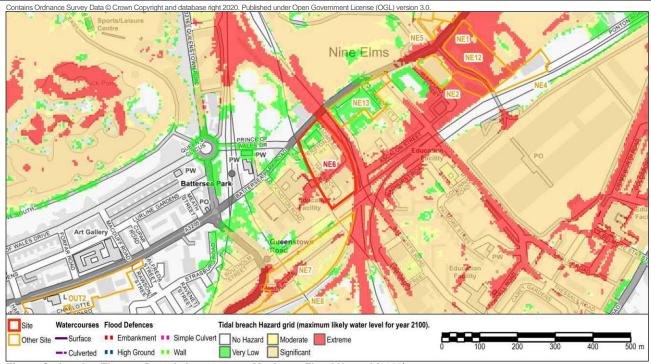


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

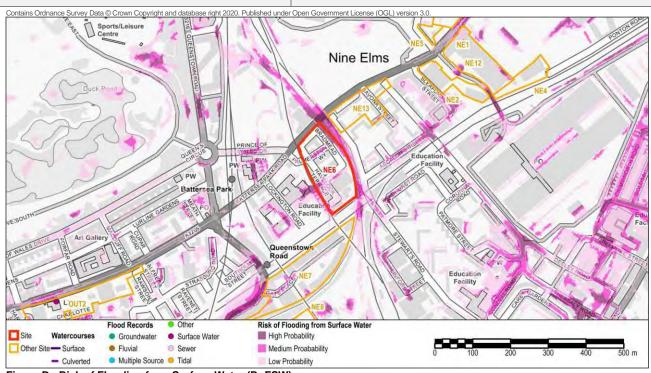


Figure D - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None			
Drainage Catchment	DC1			
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand Superficial Geology and Gravel Clay, Silt and Sand, Sand a Gravel			
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				
Risk of flooding from reservoirs				

Site NE6 Havelock Terrace, SW8

Summary

The site is located 570m south of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 2-2.5m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 2.5-3m depth, Extreme hazard rating on Battersea Park Road ('danger for all') for the year 2100. Flood levels on the site vary from ~4.10-4.29m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to pond on Palmerston Way and Havelock Terrace within the site and also flow on Battersea Park Road adjacent to the site. The Risk of Flooding from Surface Water mapping also identifies surface water flow pathways on the rail lines.

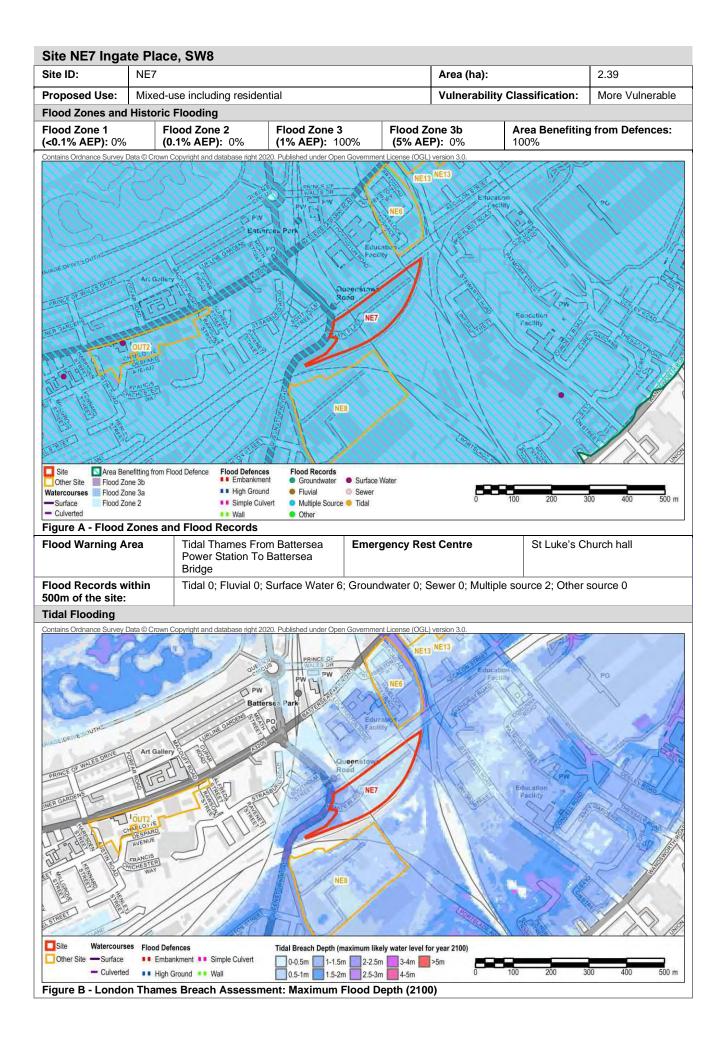
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from 4.10-4.29m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Power Station To Battersea Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE7 Ingate Place, SW8

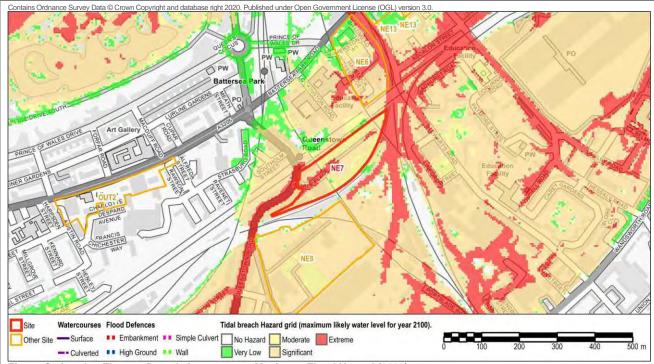


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

reservoirs

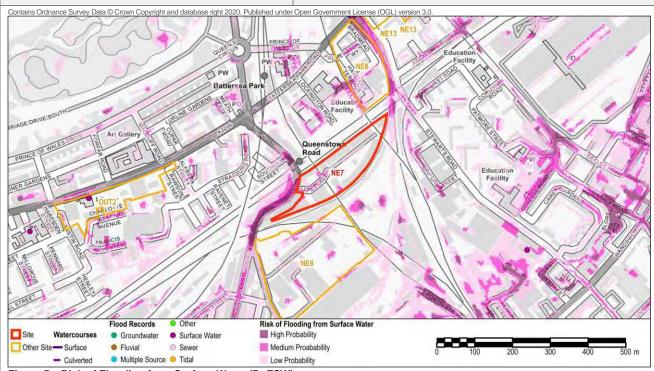


Figure D - Risk of Flooding from Surface Water (RoFSW)

riguie b - Kisk of Flooding from ourface water (Not ow)				
Critical Drainage Area	None	None		
Drainage Catchment	DC11			
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel	
Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.			ling to occur at surface.	
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				
Risk of flooding from				

Site NE7 Ingate Place, SW8

Summary

The site is located 1km south of the tidal River Thames. The site is defined as Flood Zone 3a High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 1.5-2m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 2.5-3m depth, Extreme hazard rating ('danger for all') on Queenstown for the year 2100. The flood levels are generally ~3.74mAOD, increasing to ~4.07m AOD to the eastern extent¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site on Ingate Place. There are 6 reported incidents of surface water flooding within 500m of the site.

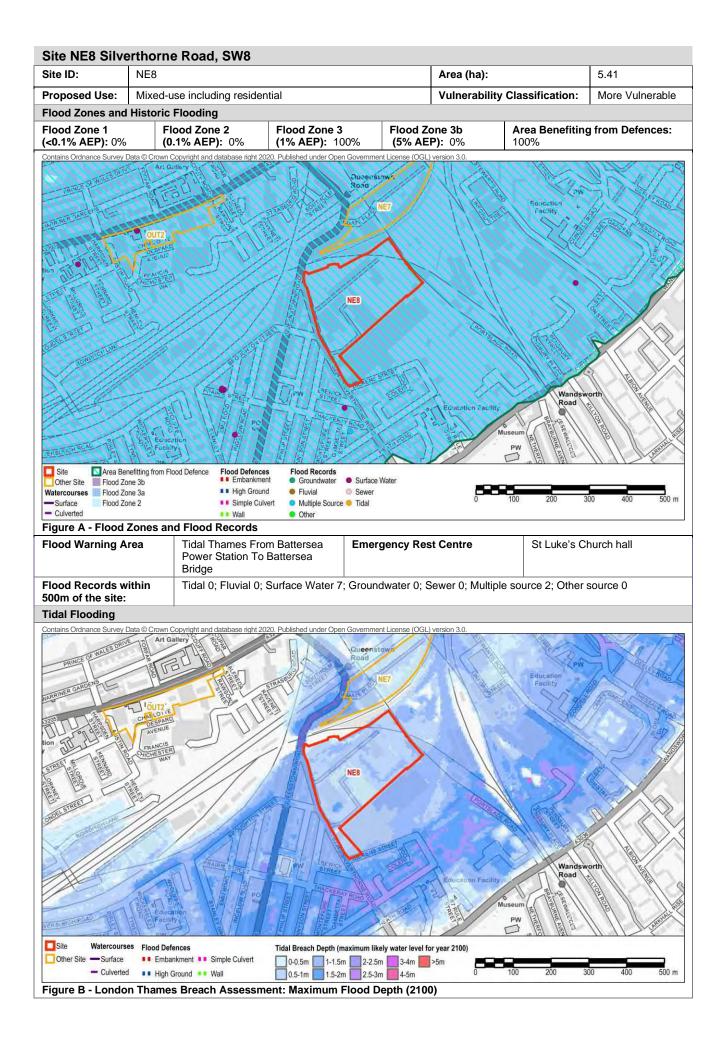
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from ~3.74 4.07mAOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Power Station To Battersea Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE8 Silverthorne Road, SW8

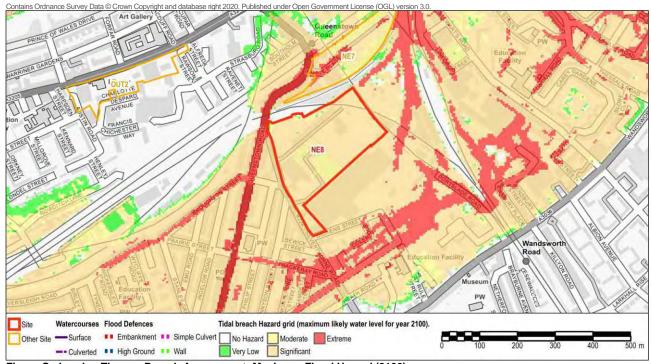


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

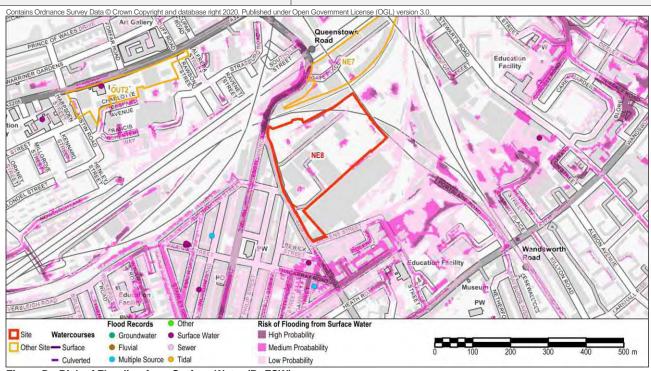


Figure D - Risk of Flooding from Surface Water (RoFSW)

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Critical Drainage Area	Group7_028 Nine Elms [Lambet	Group7_028 Nine Elms [Lambeth]		
Drainage Catchment	DC11	DC11		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				
Risk of flooding from reservoirs				

Site NE8 Silverthorne Road, SW8

Summary

The site is located 1.1km south of the tidal River Thames. The site is defined as Flood Zone 3a High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 1.5-2m, with a corresponding hazard rating of Significant ('danger for most') on the site, and 2.5-3m depth, Extreme hazard rating ('danger for all') on Queenstown Road and Silverthorne Road for the year 2100. Flood levels on the site are ~3.60-3.64m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site. There are 7 reported incidents of surface water flooding within 500m of the site and it is located within a Critical Drainage Area (CDA 28 Nine Elms).

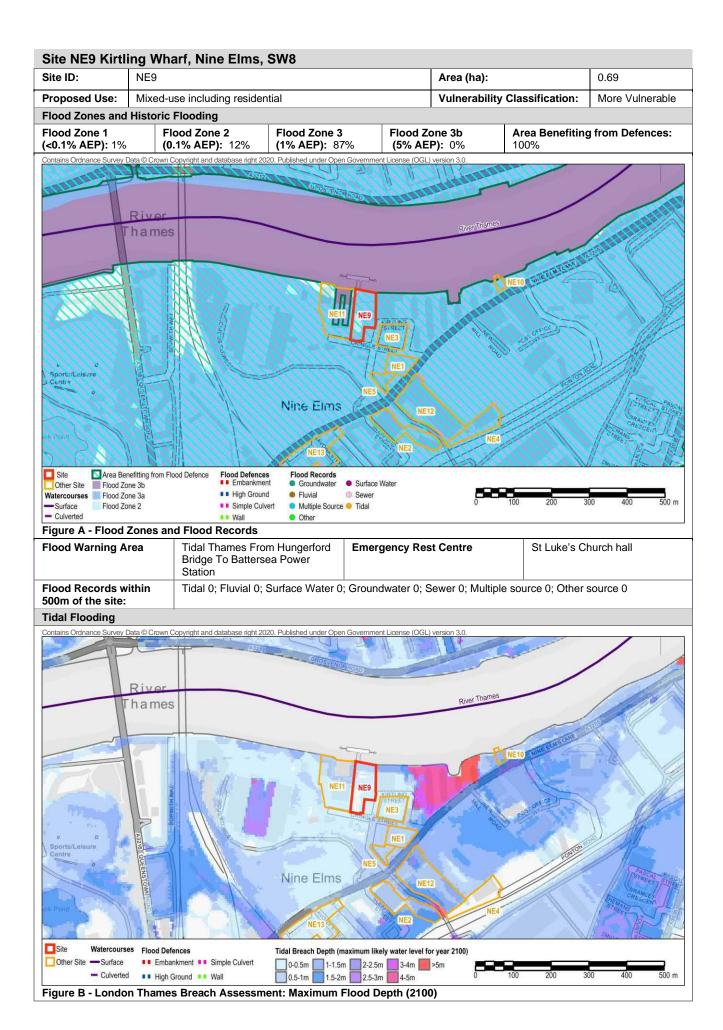
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from ~3.60-3.64m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Power Station To Battersea Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE9 Kirtling Wharf, Nine Elms, SW8

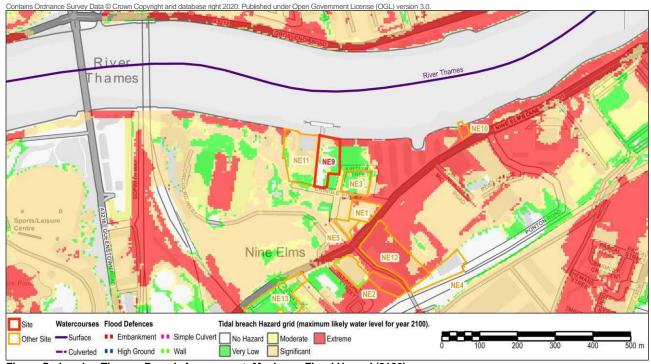


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW)

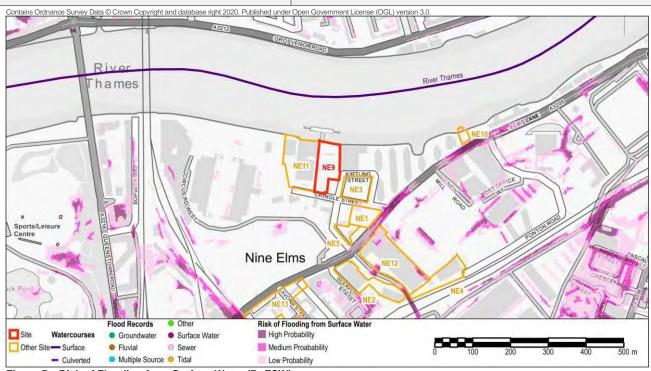


Figure D - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None	None			
Drainage Catchment	DC1	DC1			
Groundwater Flooding					
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel				
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level.			
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes			
Other Sources					
Risk of flooding from					

reservoirs

Site NE9 Kirtling Wharf, Nine Elms, SW8

Summary

The site is located next to the tidal River Thames. The majority of the site is defined as Flood Zone 3 High probability of flooding and the remainder of the site is in Flood Zone 1 and Flood Zone 2 Low and Medium probability flooding respectively. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 1.5-2m depth, Extreme hazard rating on Nine Elms Road ('danger for all') for the year 2100. Cringe Street which is adjacent to the site have a flood depth corresponding to 1-1.5m and an Extreme hazard rating ('danger for all'). Flood levels on the site vary from ~5.5-5.82m AOD for the year 2100¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to pond within the site and also on Cringe Street, and also to flow and pond on Nine Elms Road to the east of the site.

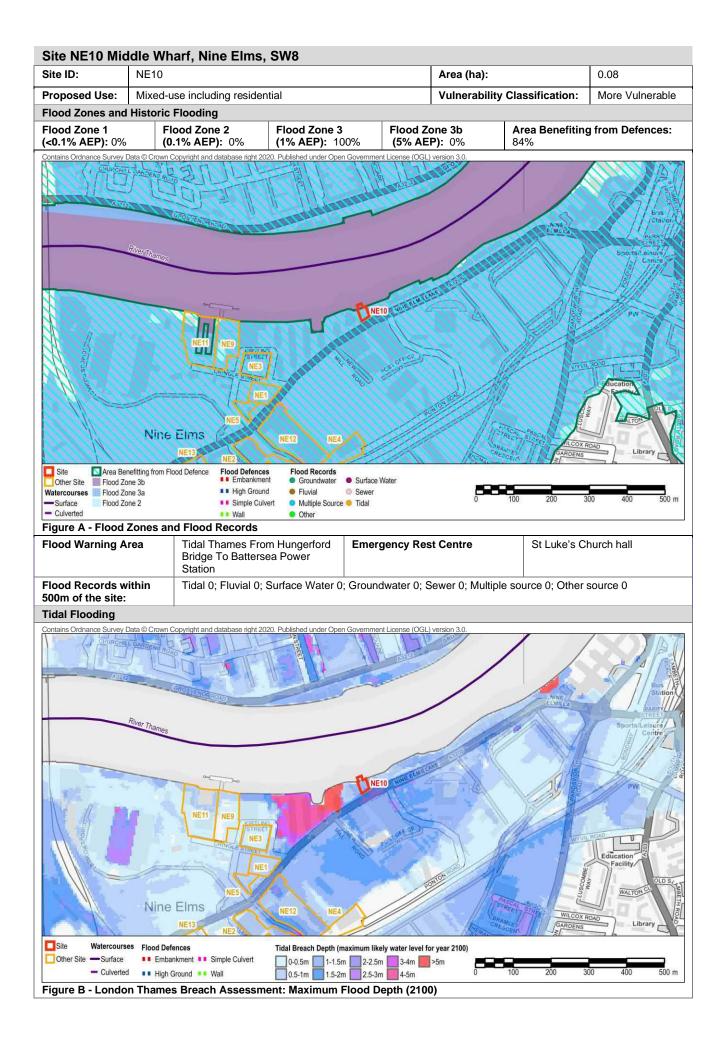
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from 5.5-5.82m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Hungerford Bridge to Battersea Power Station. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE10 Middle Wharf, Nine Elms, SW8

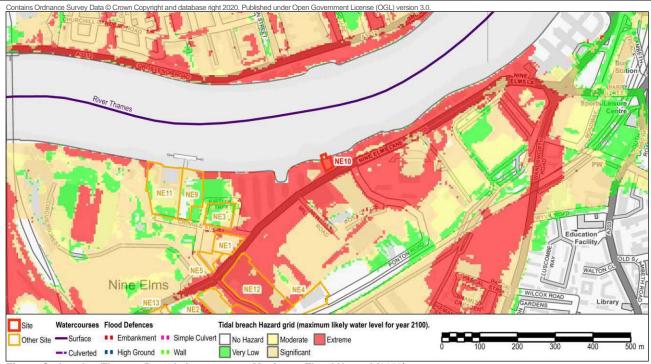


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

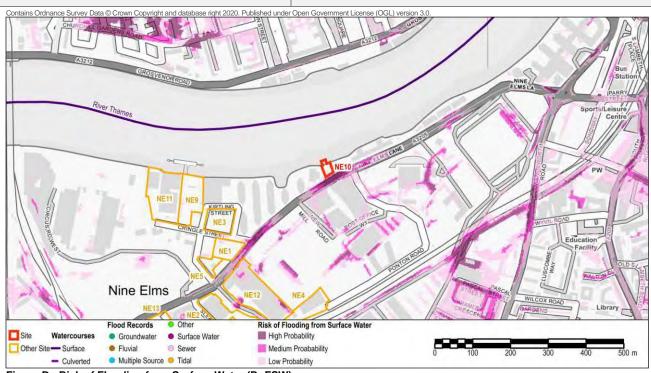


Figure D - Risk of Flooding from Surface Water (RoFSW)

rigure D - Klak of Flooding	Tom ourace water (Nor ow)			
Critical Drainage Area	None	None		
Drainage Catchment	DC1	DC1		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand	
Susceptibility to Groundwater Flooding (BGS) Limited potential for		Limited potential for ground	potential for groundwater flooding to occur.	
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)				
Other Sources				
Risk of flooding from reservoirs				

Site NE10 Middle Wharf, Nine Elms, SW8

Summary

The site is located next to the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 1.5-2m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 2-2.5m depth, Extreme hazard rating on Nine Elms Road ('danger for all') for the year 2100. Flood levels on the site vary from ~4.58-5.19m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to pond at the south of the site, and also to flow and pond on Nine Elms Road to the south of the site.

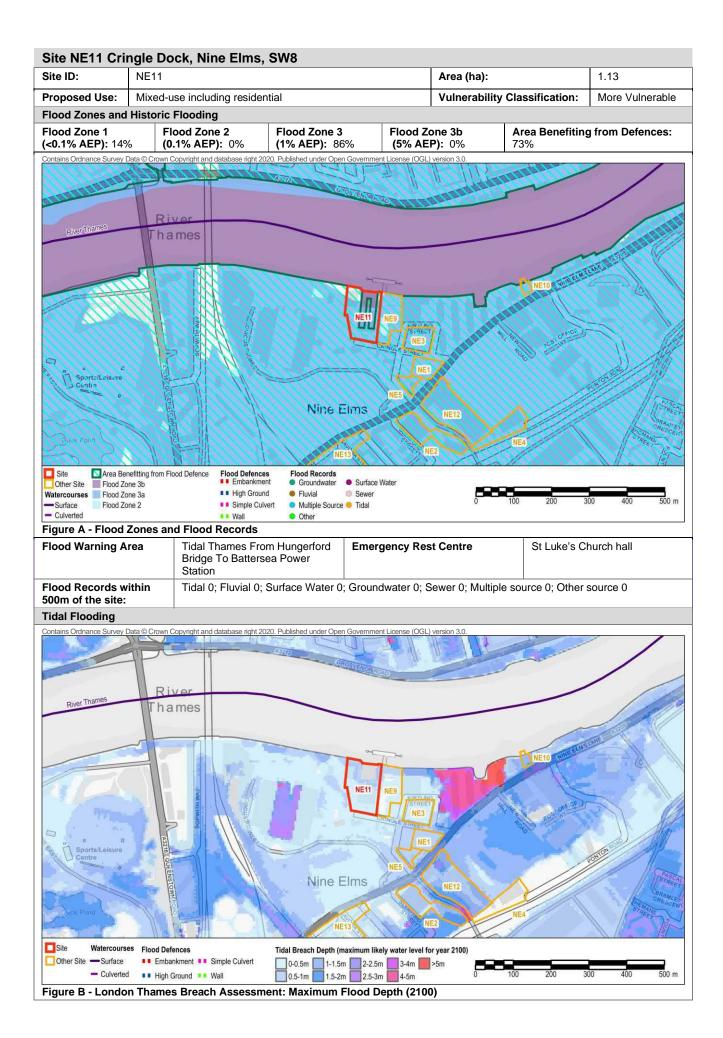
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may not be susceptible to groundwater flooding.

Site Specific Recommendations

- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 16m from the tidal river
- Development of this site will need to allow for the flood defences to be raised in line with the TE2100 Plan. Depending on the ownership of the defence, it may be beneficial for the site and wider Borough if raising of the defences was incorporated into the re-development of the site, which could potentially supplement to a wider riverside strategy.
- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from ~4.58-5.19m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Hungerford Bridge to Battersea Power Station. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy
 for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE11 Cringle Dock, Nine Elms, SW8

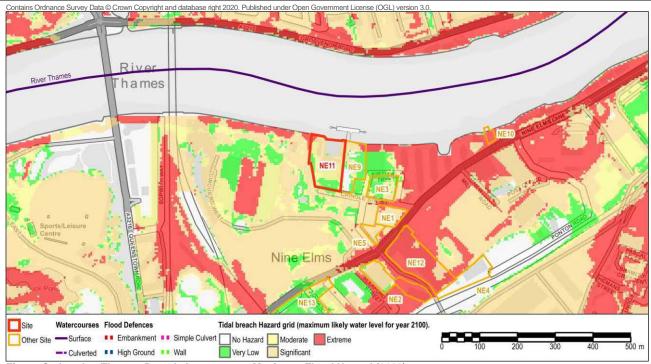


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

reservoirs

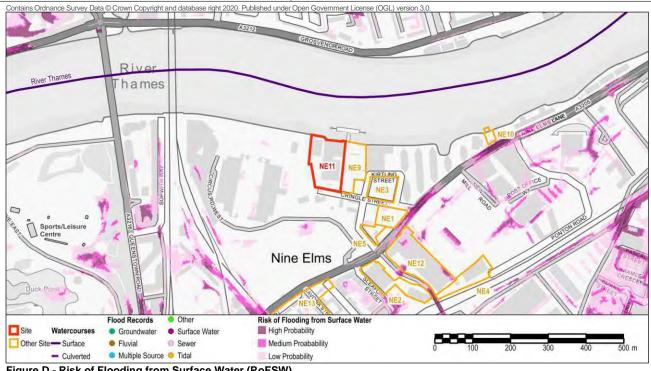


Figure D - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None			
Drainage Catchment	DC1	DC1		
Groundwater Flooding	•			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		No		
Other Sources				
Risk of flooding from				

Site NE11 Cringle Dock, Nine Elms, SW8

Summary

The site is located next to the tidal River Thames. The majority of the site is defined as Flood Zone 3 High probability of flooding and the remainder of the site is in Flood Zone 1 and Flood Zone 2 Low and Medium probability flooding respectively. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 1.5-2m depth, Extreme hazard rating on Nine Elms Road ('danger for all') for the year 2100. Cringe Street which is adjacent to the site have a flood depth corresponding to 1-1.5m and an Extreme hazard rating ('danger for all'). Flood levels on the site vary from ~5.55-5.82m AOD for the year 2100¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to pond on Cringe Street, and also to flow and pond on Nine Elms Road to the east of the site.

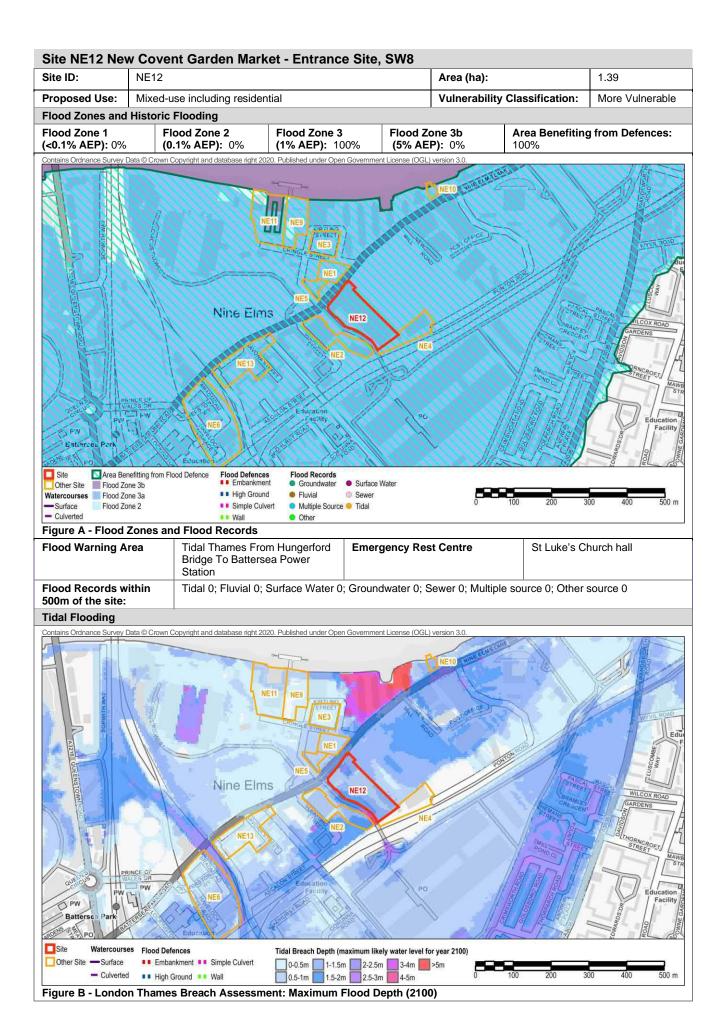
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding.

Site Specific Recommendations

- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 16m from the tidal river.
- Development of this site will need to allow for the flood defences to be raised in line with the TE2100 Plan. Depending on the ownership of the defence, it may be beneficial for the site and wider Borough if raising of the defences was incorporated into the re-development of the site, which could potentially supplement to a wider riverside strategy.
- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from ~5.55-5.82m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Hungerford Bridge to Battersea Power Station. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE12 New Covent Garden Market - Entrance Site, SW8

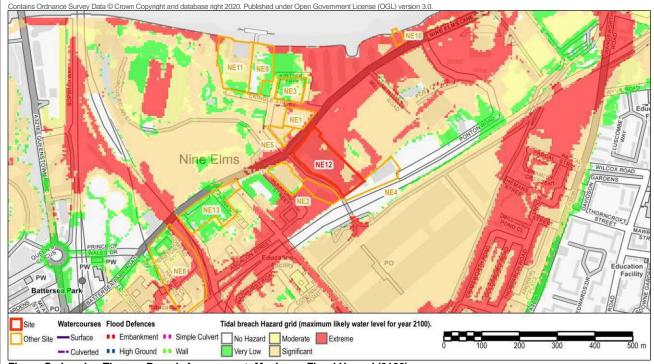


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

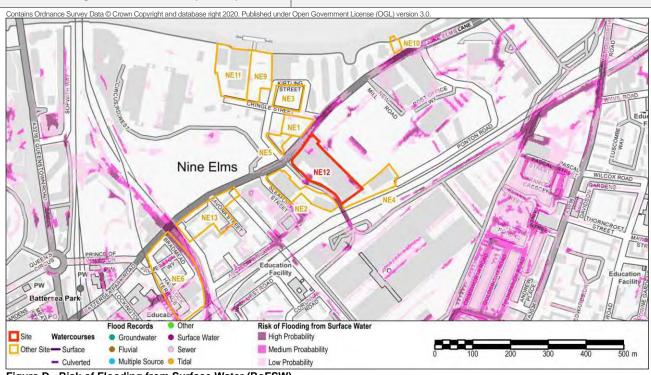


Figure D - Risk of Flooding from Surface Water (RoFSW)

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Critical Drainage Area	None	None		
Drainage Catchment	DC1	DC1		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				
Risk of flooding from reservoirs				

Site NE12 New Covent Garden Market - Entrance Site, SW8

Summary

The site is located 330m south of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 2.5-3m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 2.5-3m depth, Extreme hazard rating on Battersea Park Road and Nine Elms Road ('danger for all') for the year 2100. Flood levels on the site are ~4.21-4.97m AOD for the year 2100¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site and also flow on Nine Elms Road adjacent to the site.

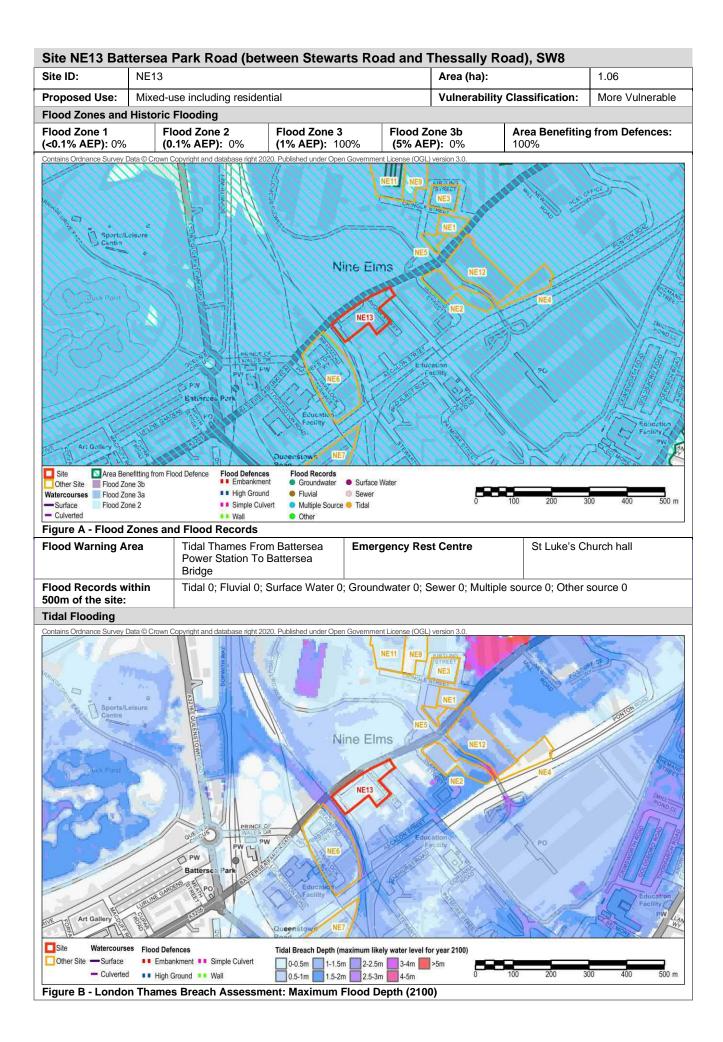
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from 4.21-4.97m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Power Station To Battersea Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site NE13 Battersea Park Road (between Stewarts Road and Thessally Road), SW8

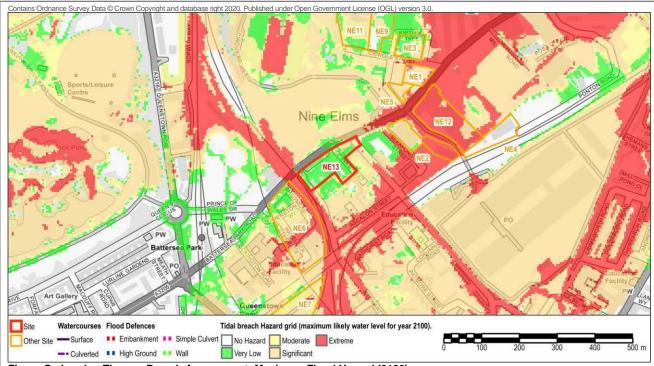


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

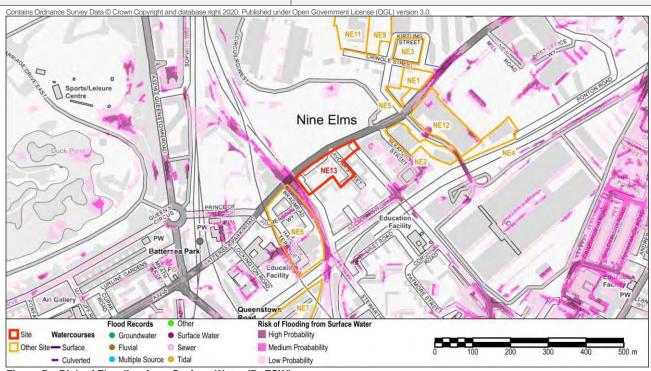


Figure D - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None	None		
Drainage Catchment	DC1	DC1		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				
Risk of flooding from reservoirs				

Site NE13 Battersea Park Road (between Stewarts Road and Thessally Road), SW8

Summary

The site is located 430m south of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Significant ('danger for some') on the site, and 2.5-3m depth, Extreme hazard rating on Battersea Park Road ('danger for all') for the year 2100. Flood levels on the site are ~4.09-4.61m AOD for the year 2100¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to pond and flow on Savona Street and Stewart's Road adjacent to the site. The Risk of Flooding from Surface Water mapping also identifies surface water flow pathways on the rail lines.

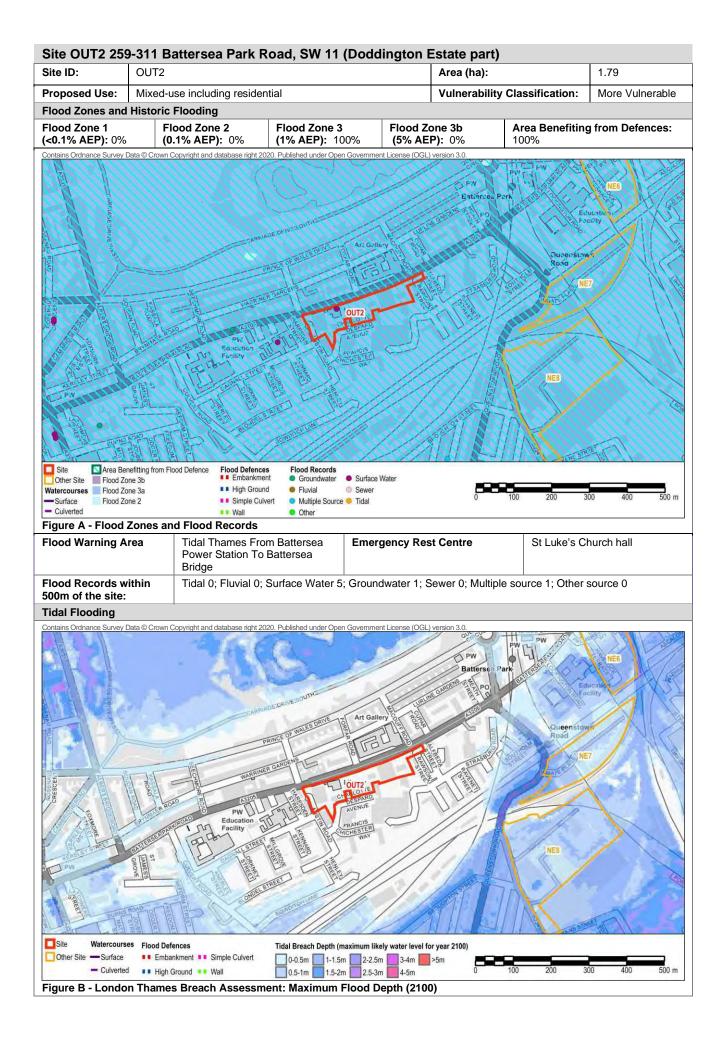
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from 4.09-4.61m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Power Station To Battersea Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site OUT2 259-311 Battersea Park Road, SW 11 (Doddington Estate part)

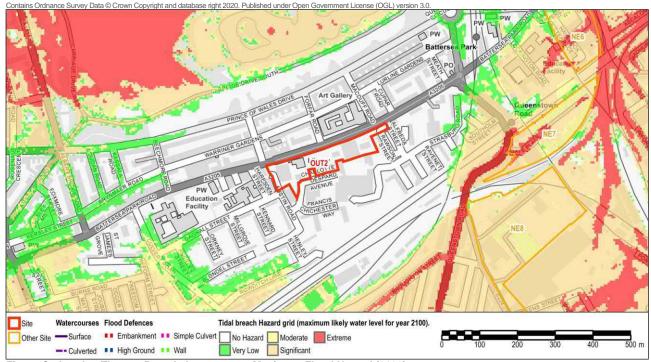


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

reservoirs

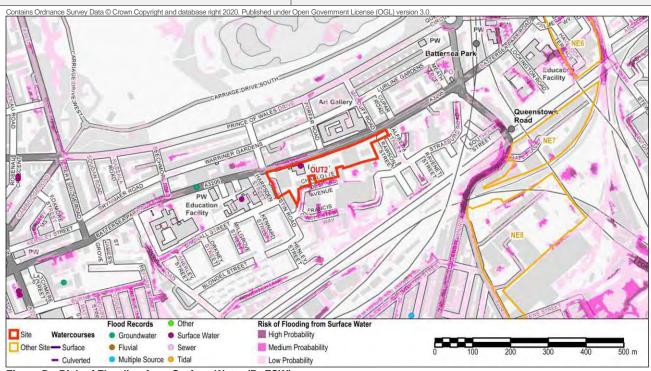


Figure D - Risk of Flooding from Surface Water (RoFSW)

rigure D - Kisk of Flooding from Surface water (Kor Sw)				
Critical Drainage Area	None	None		
Drainage Catchment	DC1	DC1		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				
Risk of flooding from				

Site OUT2 259-311 Battersea Park Road, SW 11 (Doddington Estate part)

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows east, approximately 900m to the north of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that in the event of a breach, floodwaters would not extend as far as the site. The site is therefore not considered to be at residual risk of tidal flooding during a breach in the Thames tidal defences. However, the access/egress routes for the site along Battersea Park Road are at residual risk of flooding¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Battersea Park Road to the north of the site. There are 5 reported incidents of surface water flooding within 500m of the site.

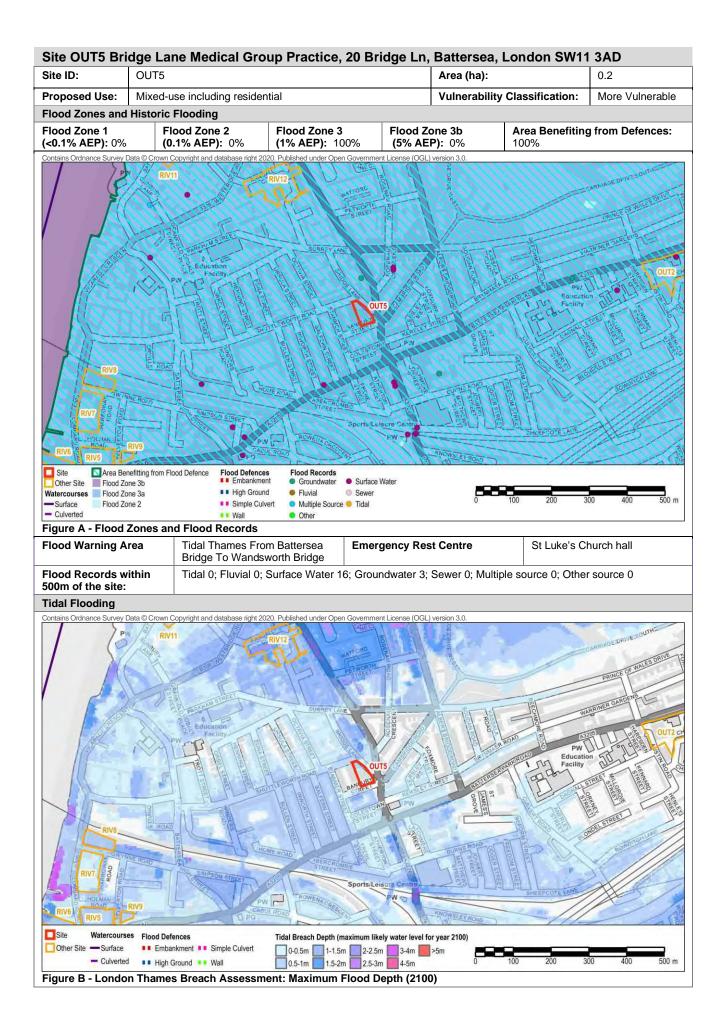
There is 1 reported incident of groundwater flooding records within 500m of the site, and broadscale mapping suggests that the local area may be susceptible to groundwater at the surface.

Site Specific Recommendations

- In the event of a breach in the flood defences, dry access/egress out of the wider area may not be possible. In line with the
 requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an
 allowance for climate change².
- The site is located within the Flood Warning Area for the Tidal Thames From Deptford Creek to Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site OUT5 Bridge Lane Medical Group Practice, 20 Bridge Ln, Battersea, London SW11 3AD

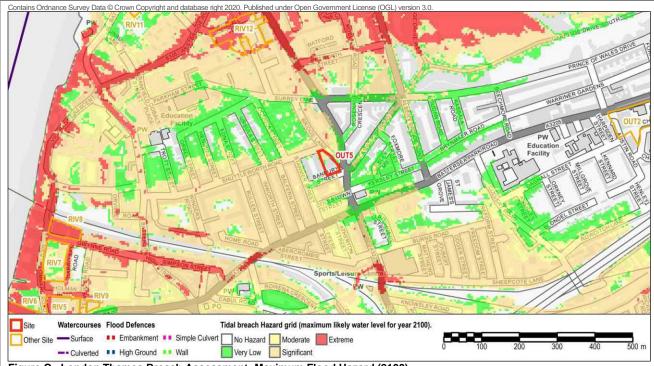


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

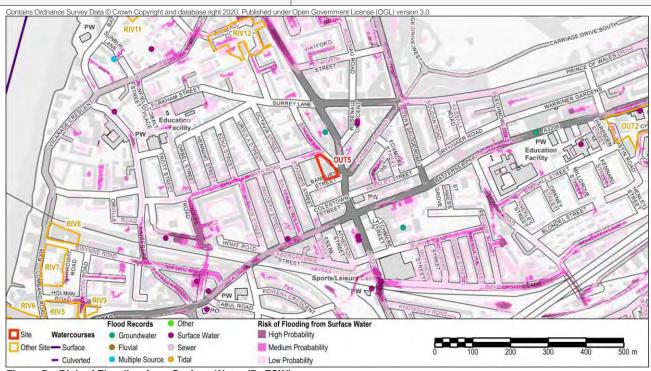


Figure D - Risk of Flooding from Surface Water (RoFSW)

riguio E Trior of Flooding in	in danado mator (mor da)			
Critical Drainage Area	None	None		
Drainage Catchment	DC1	DC1		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				
Risk of flooding from reservoirs				

Site OUT5 Bridge Lane Medical Group Practice, 20 Bridge Ln, Battersea, London SW11 3AD

Summary

The site is located 780m east of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Significant ('danger for some') on the site, and 1-1.5m depth, Significant hazard rating on Battersea Bridge Road ('danger for some') for the year 2100. Flood levels on the site are ~3.73-3.93m AOD for the year 2100¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to pond to the north of the site and also on Battersea Bridge Road and Shuttleworth Road to the south of the site. There are 16 reported incidents of surface water flooding within 500m of the site.

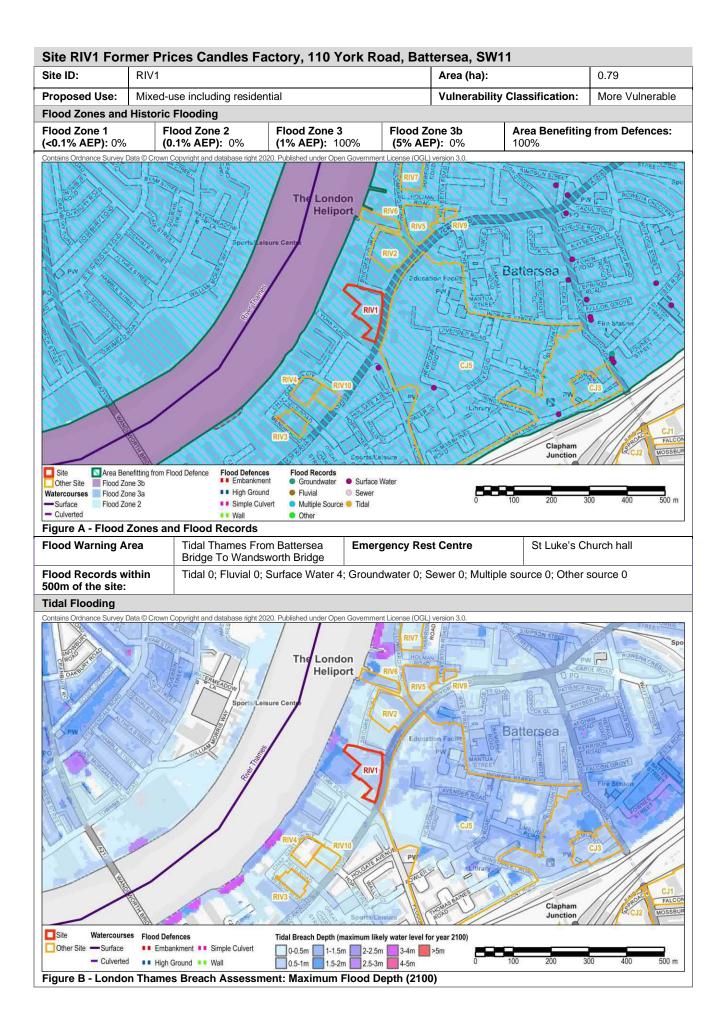
There are 3 reported incidents of groundwater flooding within 500m of the site. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding at surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from ~3.73-3.93m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV1 Former Prices Candles Factory, 110 York Road, Battersea, SW11

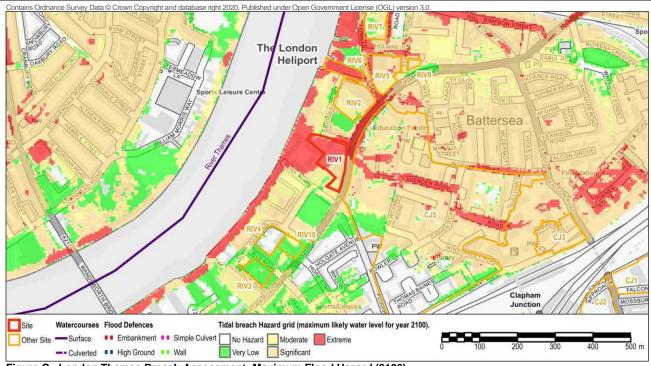


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 The London Heliport Battersea MOSSBU Flood Records Risk of Flooding from Surface Wate ☐ Site Watercourses Groundwater Surface Water High Probability Other Site - Surface Fluvial Medium Proabability Multiple Source
 Tidal Culverted Figure D - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None	None		
Drainage Catchment	DC2	DC2		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level. Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				

Risk of flooding from reservoirsThe Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site RIV1 Former Prices Candles Factory, 110 York Road, Battersea, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 40m to the west of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Extreme ('danger for all'), and 1.0-1.5m depth, Extreme hazard rating on York Road ('danger for all') for the year 2100. Flood levels on the site vary from ~4.52-5.24m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on York Road to the south of the site. They are 4 reported incidents of surface water flooding within 500m of the site.

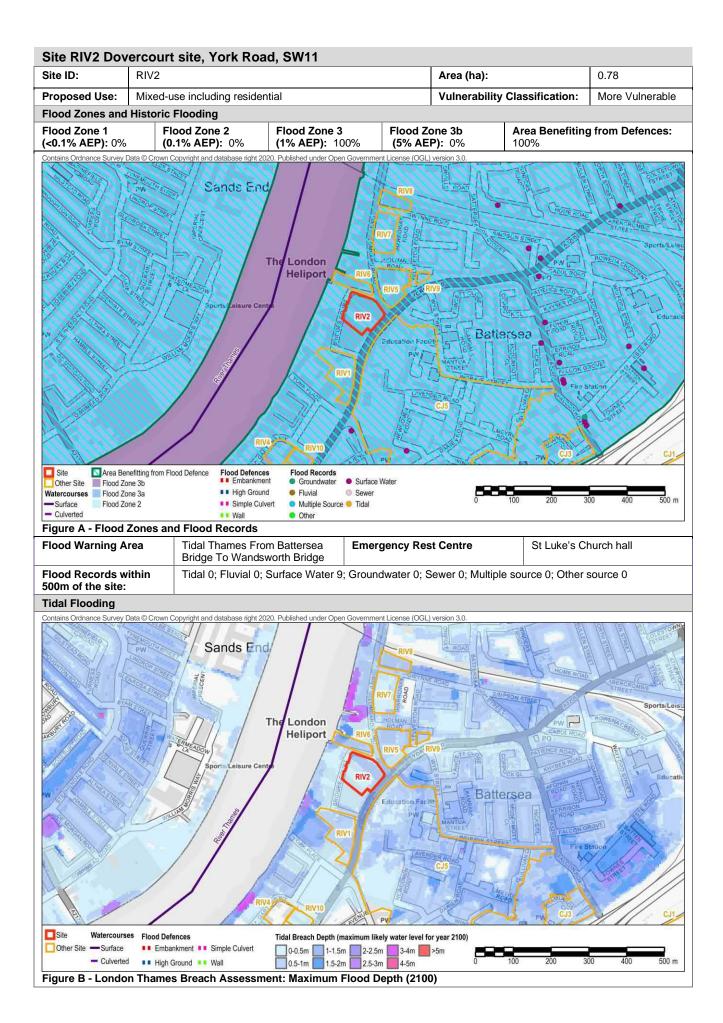
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding below ground and at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.5m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV2 Dovercourt site, York Road, SW11

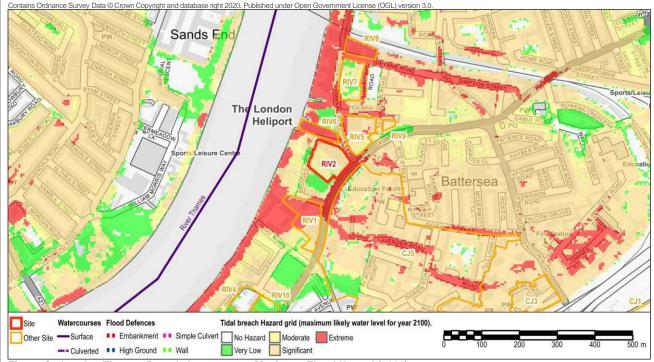


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

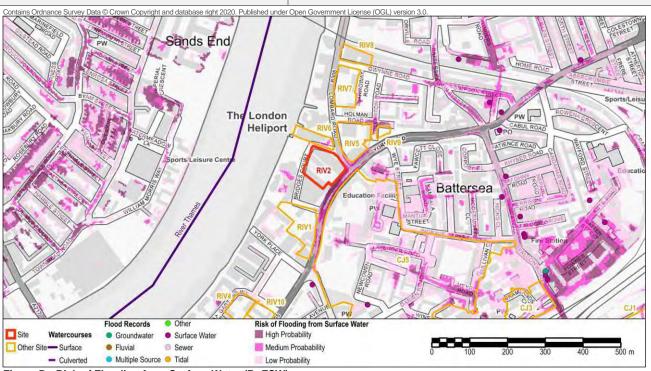


Figure D - Risk of Flooding from Surface Water (RoFSW)

	. , , , , , , , , , , , , , , , , , , ,			
Critical Drainage Area	None	None		
Drainage Catchment	DC2	DC2		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel	
Susceptibility to Groundwater Flooding (BGS)		Limited potential for groundwater flooding to occur.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		No		
Other Sources				
Risk of flooding from reservoirs				

Site RIV2 Dovercourt site, York Road, SW11

Summary

The site is located 70m east of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Significant ('danger for most') on the site, and 1.5-2m depth, Extreme hazard rating on York Road ('danger for all') for the year 2100. Flood levels on the site are ~4.75-5.12m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site and also on York Road located adjacent to the site. There are 9 reported incidents of surface water flooding within 500m of the site.

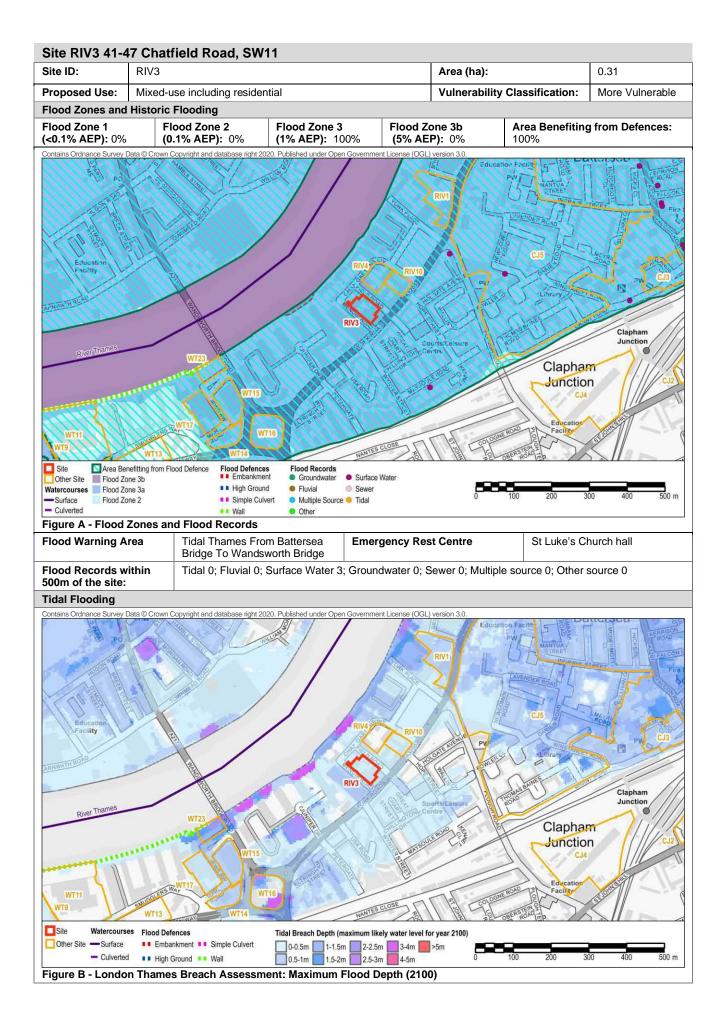
Broadscale mapping suggests that the local area may have limited potential for groundwater flooding.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from ~4.75-5.12m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Power Station To Battersea Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV3 41-47 Chatfield Road, SW11

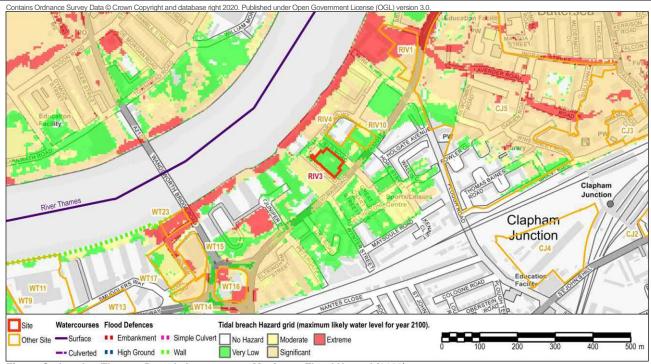


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW)	Low
Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published und Education Facility River Thames WT18 WT18	RIV3 RIV3 RIV1 RIV3 RIV1 RIV1 RIV3 RIV4 RIV4 RIV4 RIV4 RIV4 RIV5 RIV5
	ooding from Surface Water
Site Watercourses • Groundwater • Surface Water	
	n Proabability 0 100 200 300 400 500 m
 Culverted Multiple Source Tidal Low F 	obability

Critical Drainage Area	None			
Drainage Catchment	DC2	DC2		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level. Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				
Risk of flooding from reservoirs The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).				

Site RIV3 41-47 Chatfield Road, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 80m to the west of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0-0.5m, with a corresponding hazard rating of Very Low ('caution'), and 0.5-1.0m depth, Significant hazard rating on York Road ('danger for most') for the year 2100. Flood levels on the site vary from ~4.93-5.07m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Mendip Road to the west of the site and Chatfield Road to the east of the site. There are 3 reported incidents of surface water flooding within 500m of the site.

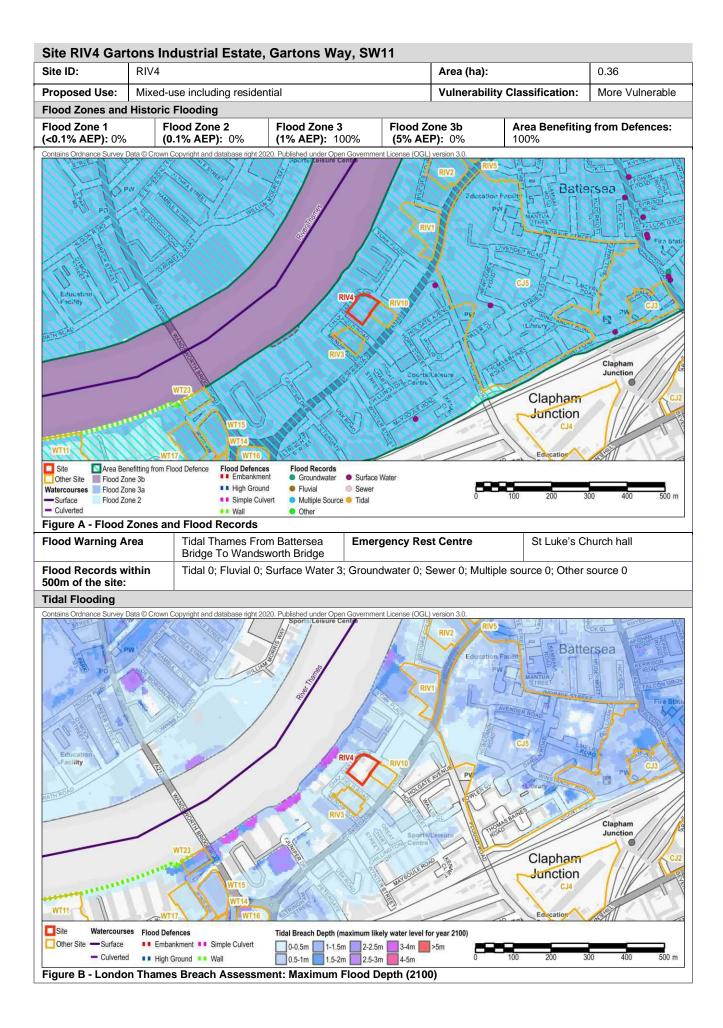
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding below ground and at surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location varies from ~4.93-5.07m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV4 Gartons Industrial Estate, Gartons Way, SW11 Battersea Clapham Junction Site Tidal breach Hazard grid (maximum likely water level for year 2100). Surface Surface High Ground Wall Wall Wery Low Significant -- Culverted II High Ground II Wall Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 Clapham Junction WT11 Risk of Flooding from Surface Water Site Watercourses Surface Water High Probability Medium Proabability Other Site - Surface Fluvial Multiple Source Tidal Figure D - Risk of Flooding from Surface Water (RoFSW) **Critical Drainage Area** None **Drainage Catchment** DC2

Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level.	
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		No	
Other Sources			
Risk of flooding from reservoirs	The Long Term Flood Risk Map shows that the site and surrounding area could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).		

Site RIV4 Gartons Industrial Estate, Gartons Way, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 80m to the north of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the area around the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. The site itself is shown to be slightly raised, and therefore not at the same level of risk. Flood water would inundate the site to a depth of 0-0.5m, with a corresponding hazard rating of Very Low ('caution'), and 0.5-1.0m depth, Significant hazard rating on York Road ('danger for most') for the year 2100. Flood levels on the northern edge of the site on Gartons Way are ~5.47m AOD¹ for the year 2100, and ~4.9-5.0m AOD along York Road to the south of the site.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Gartons Way to the north of the site and Chatfield Road to the west of the site. There are 3 reported incidents of surface water flooding within 500m of the site.

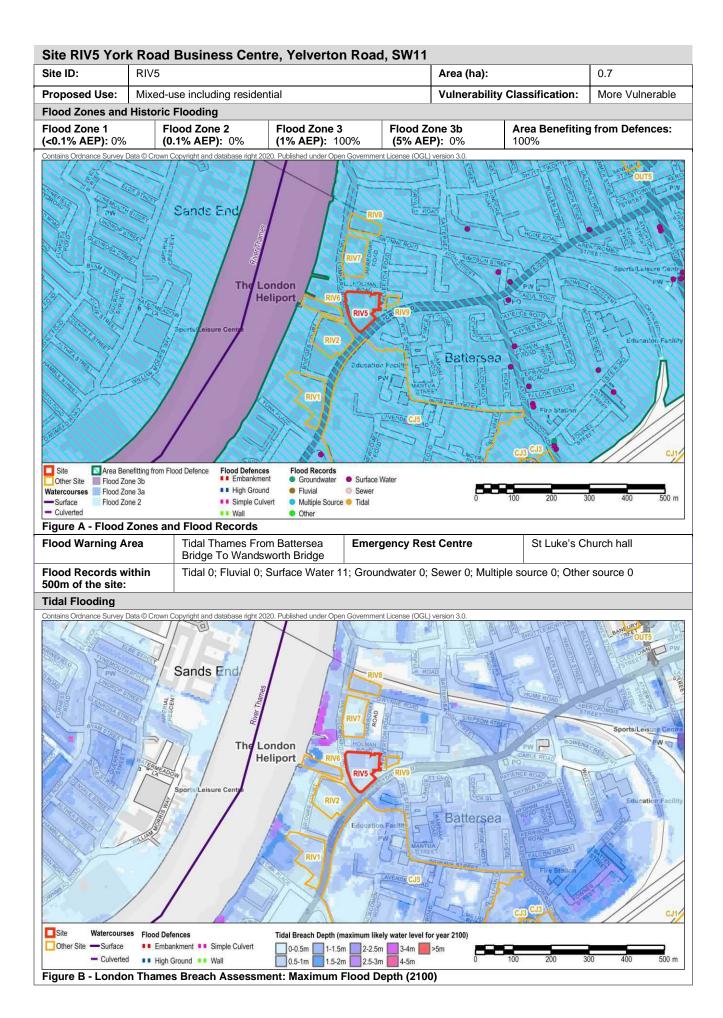
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding below ground.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.47m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV5 York Road Business Centre, Yelverton Road, SW11 Sands En London Heliport Battersea Tidal breach Hazard grid (maximum likely water level for year 2100). Surface Embankment Simple Culvert No Hazard Moderate Extreme -- Culverted -- High Ground -- Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) Sands End London Heliport Battersea Flood Records Risk of Flooding from ☐ Site Watercourses Groundwater Surface Water High Probability - Surface Fluvial Medium Proabability Multiple Source Tidal Figure D - Risk of Flooding from Surface Water (RoFSW) **Critical Drainage Area** None **Drainage Catchment** DC2 **Groundwater Flooding** Superficial Geology **Bedrock Geology** Thames Group - Clay, Silt, Sand Sand and Gravel and Gravel Susceptibility to Groundwater Flooding (BGS) Limited potential for groundwater flooding to occur. Within an area with 'increased potential for elevated Yes groundwater', as identified in the SWMP (GLA 2011) **Other Sources** The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or Risk of flooding from reservoirs failure of a reservoir. (It is not possible to determine which reservoir).

Site RIV5 York Road Business Centre, Yelverton Road, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 80m to the west of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Extreme ('danger for all'), and 1-1.5m depth, Extreme hazard rating on York Road ('danger for all') for the year 2100. Flood levels on the site vary from ~4.41-4.68m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Lombard Road to the west of the site, and Holman Road to the north of the site and York Road to the south of the site. They are 11 reported incidents of surface water flooding within 500m of the site.

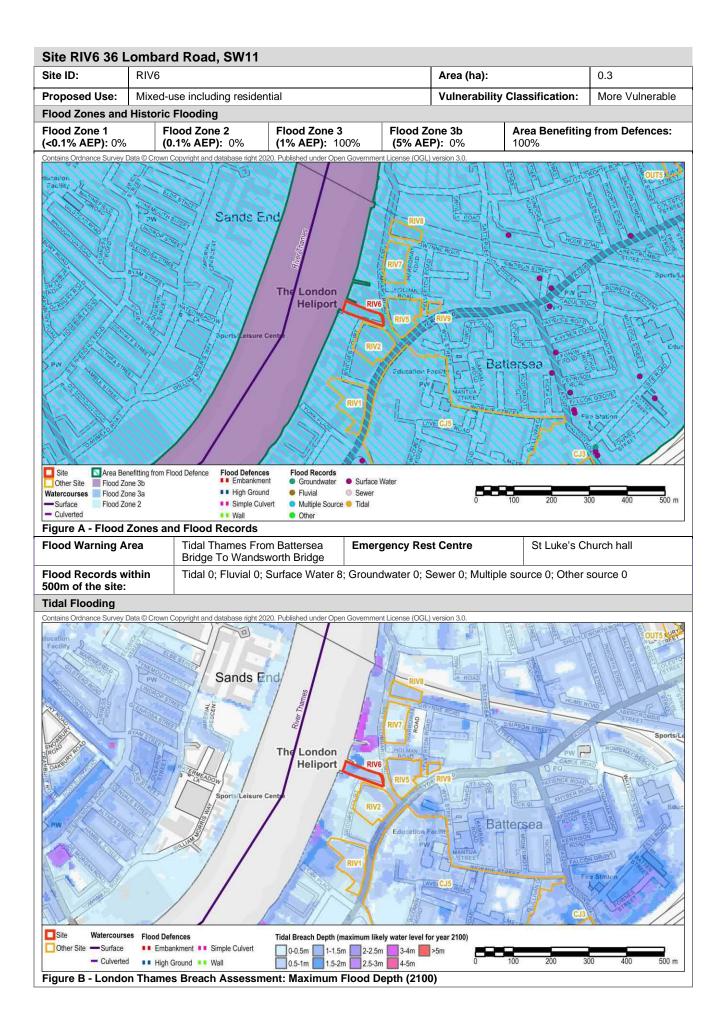
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may have limited potential for groundwater flooding to occur.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV6 36 Lombard Road, SW11 Sands Er London Heliport Battersea Tidal breach Hazard grid (maximum likely water level for year 2100). Surface Embankment Simple Culvert No Hazard Moderate Extreme -- Culverted II High Ground II Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Low, Medium Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 Sands End London Heliport Battersea Flood Records Risk of Flooding from Surface Wat ☐ Site Watercourses Surface Water High Probability Groundwater - Surface Fluvial Medium Proabability Multiple Source Tidal Figure D - Risk of Flooding from Surface Water (RoFSW) **Critical Drainage Area** None **Drainage Catchment** DC2 **Groundwater Flooding Bedrock Geology** Thames Group - Clay, Silt, Sand **Superficial Geology** Sand and Gravel and Gravel Susceptibility to Groundwater Flooding (BGS) Limited potential for groundwater flooding to occur.

No

failure of a reservoir. (It is not possible to determine which reservoir).

The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or

Within an area with 'increased potential for elevated

groundwater', as identified in the SWMP (GLA 2011)

Other Sources
Risk of flooding from

reservoirs

Site RIV6 36 Lombard Road, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward next to the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 1.5-2.0m, with a corresponding hazard rating of Extreme ('danger for all'), and 05-1.0m depth, Extreme hazard rating on Lombard Road ('danger for all') for the year 2100. Flood levels on the site vary from ~4.13-5.49m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond to the east of the site, and also on Bridges Court and Lombard Road to the south of the site. There are 8 reported incidents of surface water flooding within 500m of the site.

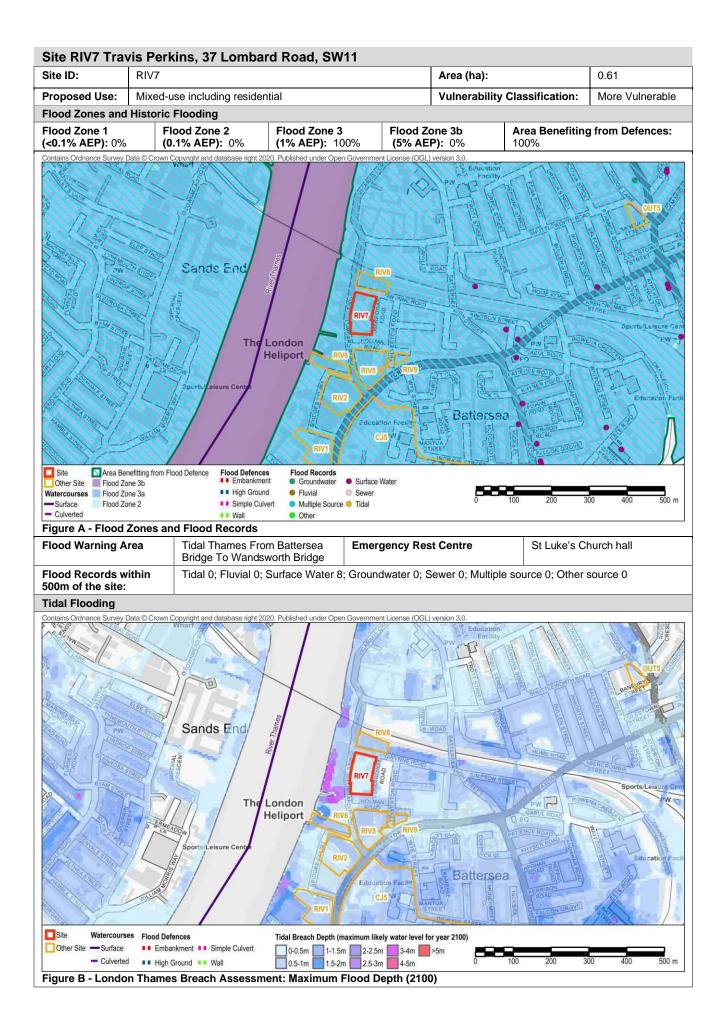
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may have limited potential for groundwater flooding to occur.

Site Specific Recommendations

- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 16m from the tidal river.
- Development of this site will need to allow for the flood defences to be raised in line with the TE2100 Plan. Depending on the ownership of the defence, it may be beneficial for the site and wider Borough if raising of the defences was incorporated into the re-development of the site, which could potentially supplement to a wider riverside strategy.
- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The average modelled flood level from the London Thames Breach Assessment across the site is 4.9m AOD¹
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV7 Travis Perkins, 37 Lombard Road, SW11 Sands Ei London Heliport Battersea Tidal breach Hazard grid (maximum likely water level for year 2100). Site Surface Embankment Simple Culvert No Hazard Moderate Extreme -- Culverted II High Ground II Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Sands End London Heliport Risk of Flooding from Surface Wate ☐ Site Watercourses Surface Water High Probability Groundwater Other Site - Surface Fluvial Medium Proabability Multiple Source Tidal Figure D - Risk of Flooding from Surface Water (RoFSW) **Critical Drainage Area** None **Drainage Catchment** DC2 **Groundwater Flooding Bedrock Geology** Thames Group - Clay, Silt, Sand **Superficial Geology** Sand and Gravel and Gravel Susceptibility to Groundwater Flooding (BGS) Limited potential for groundwater flooding to occur. Within an area with 'increased potential for elevated No groundwater', as identified in the SWMP (GLA 2011) **Other Sources**

The Long Term Flood Risk Map shows that the site and surrounding area could be at risk of flooding, in

the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Risk of flooding from

reservoirs

Site RIV7 Travis Perkins, 37 Lombard Road, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 70m to the west of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Extreme ('danger for all'), and 1.0 -1.5m depth, Significant hazard rating on Lombard Road and Gwynne Road ('danger for most') for the year 2100. Flood levels vary across the site from ~4.51-5.58m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Holman Road to the south of the site, Harrow Wat Road and Yelverton Road to the east of the site, and Gwynne Road to the north of the site. There are 8 reported incidents of surface water flooding within 500m of the site.

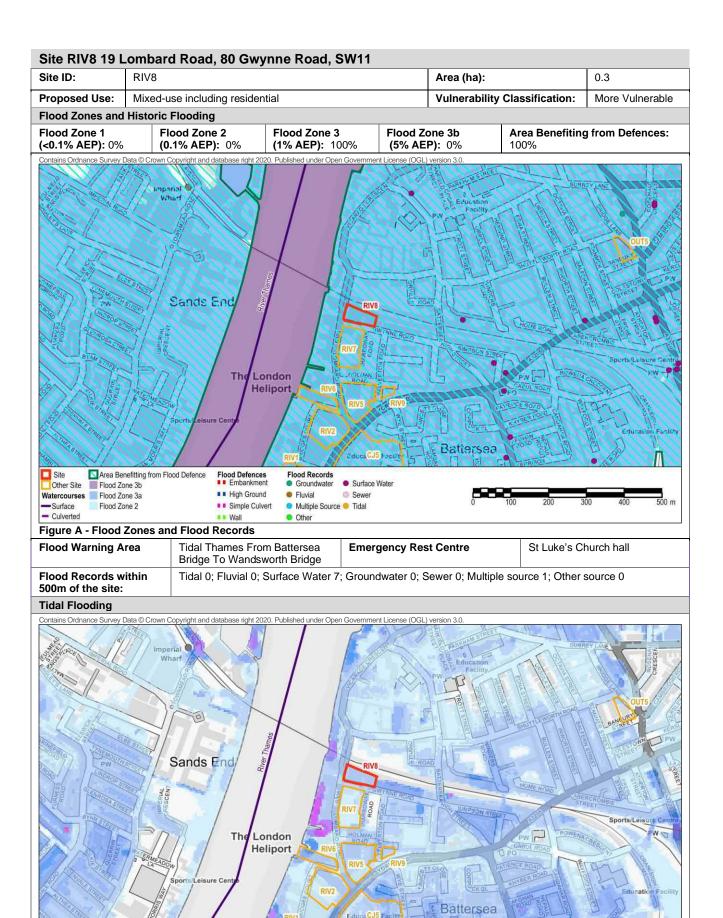
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may have limited potential for groundwater flooding to occur.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location varies across the site from 4.51-5.58m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- . The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Tidal Breach Depth (maximum likely water level for year 2100)

2-2.5m

2.5-3m

3-4m / >5m

500 m

1-1.5m

1.5-2m

0-0.5m

0.5-1m

Site

Watercourses

-Surface

Culverted

Flood Defences

■ Embankment ■ Simple Culvert

Figure B - London Thames Breach Assessment: Maximum Flood Depth (2100)

■ ■ High Ground ■ ■ Wall

Site RIV8 19 Lombard Road, 80 Gwynne Road, SW11

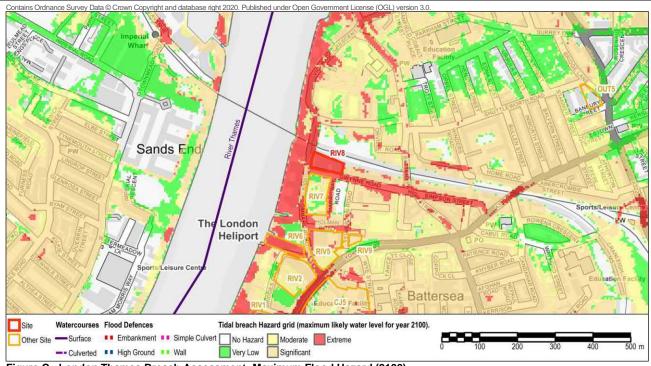


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Low, Medium Risk of Flooding from Surface Water (RoFSW) Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 Sands End London Heliport Risk of Flooding from Surface Water ☐ Site Watercourses Surface Water High Probability Groundwater Other Site-- Surface Fluvial Sewer Medium Proabability Multiple Source
 Tidal Culverted Low Probability Figure D - Risk of Flooding from Surface Water (RoFSW)

rigure D - Kisk of Flooding in	oni Sunace Water (Noi SW)			
Critical Drainage Area	None			
Drainage Catchment	DC2	DC2		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Sand and Gravel	
Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.				
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)				
Other Sources				

Risk of flooding from reservoirsThe Long Term Flood Risk Map shows that the site and surrounding area could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site RIV8 19 Lombard Road, 80 Gwynne Road, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 70m to the west of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Extreme ('danger for all'), and 1.0-1.5m depth, Extreme hazard rating on Gwynne Road ('danger for all') for the year 2100. Flood levels across the site vary from ~4.86-5.53m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Gwynne Road to the south of the site. There are 7 reported incidents of surface water flooding within 500m of the site.

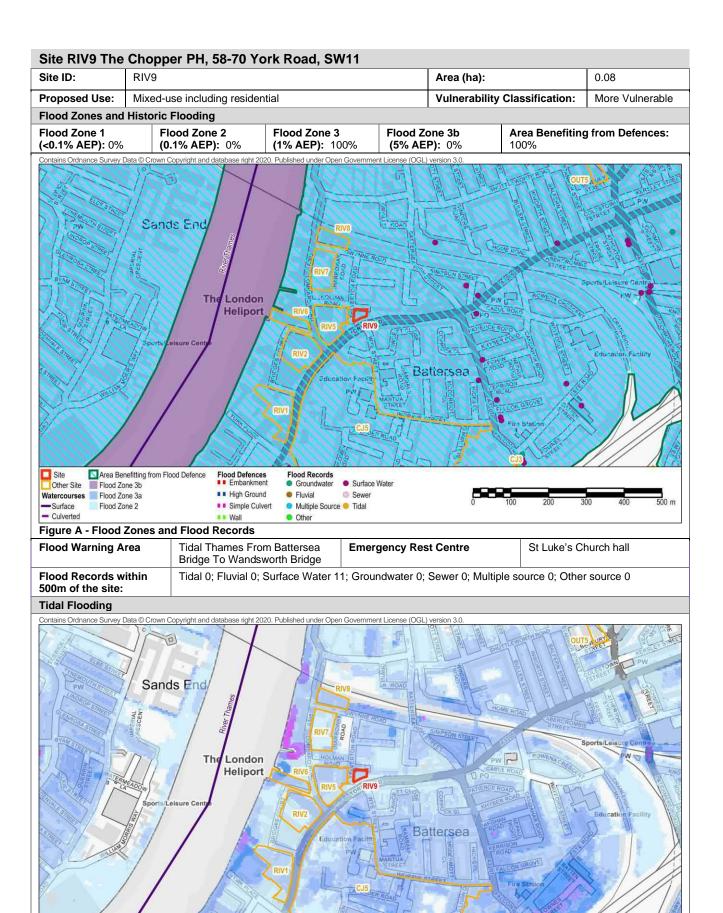
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from 4.86-5.53m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Tidal Breach Depth (maximum likely water level for year 2100)

2-2.5m

2.5-3m

3-4m / >5m

500 m

1-1.5m

1.5-2m

0-0.5m

0.5-1m

Site

Watercourses

-Surface

Culverted

Flood Defences

■ ■ Embankment ■ ■ Simple Culvert

Figure B - London Thames Breach Assessment: Maximum Flood Depth (2100)

■ ■ High Ground ■ ■ Wall

Site RIV9 The Chopper PH, 58-70 York Road, SW11 Sands En London Heliport Battersea Tidal breach Hazard grid (maximum likely water level for year 2100). Watercourses Flood Defences Surface • Embankment • Simple Culvert No Hazard Moderate Extreme -- Culverted -- High Ground -- Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) Sands End London Heliport Risk of Flooding fro ☐ Site Watercourses Groundwater Surface Water High Probability Other Site - Surface Fluvial Medium Proabability Multiple Source Tidal Culverted Low Probability Figure D - Risk of Flooding from Surface Water (RoFSW) **Critical Drainage Area** None **Drainage Catchment** DC2 **Groundwater Flooding** Superficial Geology **Bedrock Geology** Thames Group - Clay, Silt, Sand Sand and Gravel and Gravel Susceptibility to Groundwater Flooding (BGS) Limited potential for groundwater flooding to occur. Within an area with 'increased potential for elevated No groundwater', as identified in the SWMP (GLA 2011) **Other Sources** Risk of flooding from The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or reservoirs failure of a reservoir. (It is not possible to determine which reservoir).

Site RIV9 The Chopper PH, 58-70 York Road, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 210m to the west of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Significant ('danger for most'), and 1.0-1.5m depth, Extreme hazard rating on York Road ('danger for all') for the year 2100. Flood levels across the site vary from ~4.38-4.41m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Yelverton Road to the north of the site and York road to the south of the site. They are 11 reported incidents of surface water flooding within 500m of the site.

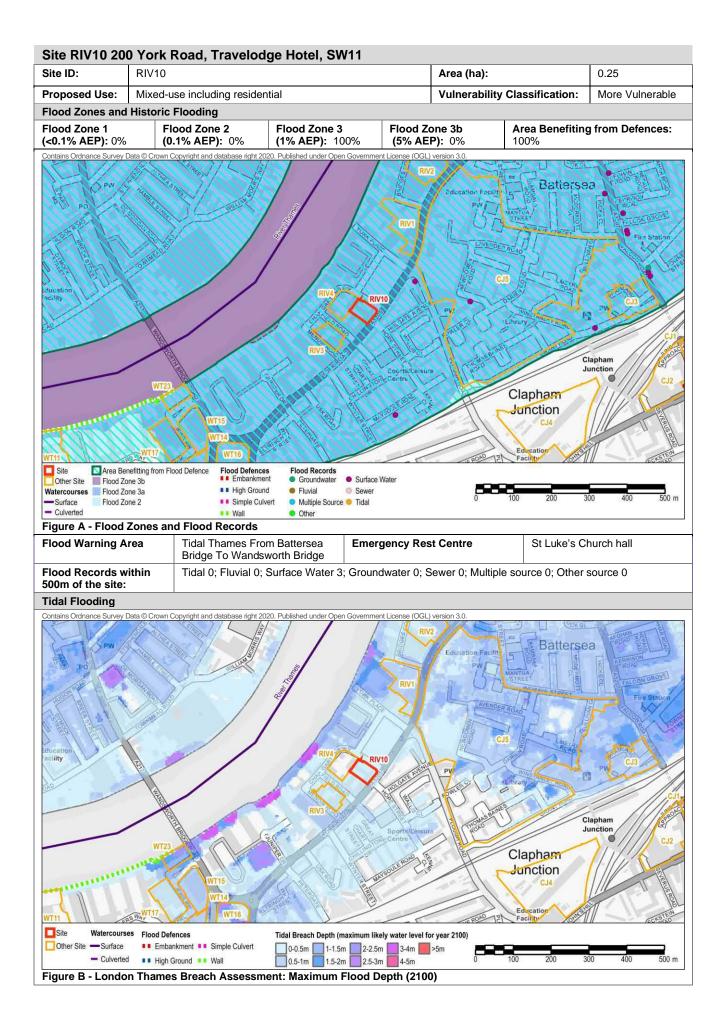
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may have limited potential for groundwater flooding to occur.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~4.38-4.41m AOD¹
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV10 200 York Road, Travelodge Hotel, SW11 Battersea Clapham Junction Clapham Junction Tidal breach Hazard grid (maximum likely water level for year 2100). Surface ■■ Embankment ■■ Simple Culvert No Hazard Moderate Extreme -- Culverted -- High Ground -- Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 Clapham Junction Risk of Flooding from Surface Water ☐ Site Watercourses Surface Water High Probability Other Site - Surface Fluvial Medium Proabability Multiple Source Tidal Culverted Figure D - Risk of Flooding from Surface Water (RoFSW) **Critical Drainage Area** None **Drainage Catchment** DC2 **Groundwater Flooding** Thames Group - Clay, Silt, Sand **Superficial Geology** Sand and Gravel **Bedrock Geology** and Gravel Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding of property situated below ground level. Within an area with 'increased potential for elevated No groundwater', as identified in the SWMP (GLA 2011) **Other Sources** Risk of flooding from The Long Term Flood Risk Map shows that the site and surrounding area could be at risk of flooding, in

the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

reservoirs

Site RIV10 200 York Road, Travelodge Hotel, SW11

Summary

The site is defined as Flood Zone 3, High probability of flooding. The River Thames flows northward, approximately 160m to the west of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5m, with a corresponding hazard rating of Significant ('danger for most'), and 0.5-1.0m depth, Significant hazard rating on York Road ('danger for most') for the year 2100. Flood levels across the site vary from ~5.03-5.37m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Gartons Way to the north of the site and York Road to the south of the site. There are 3 reported incidents of surface water flooding within 500m of the site.

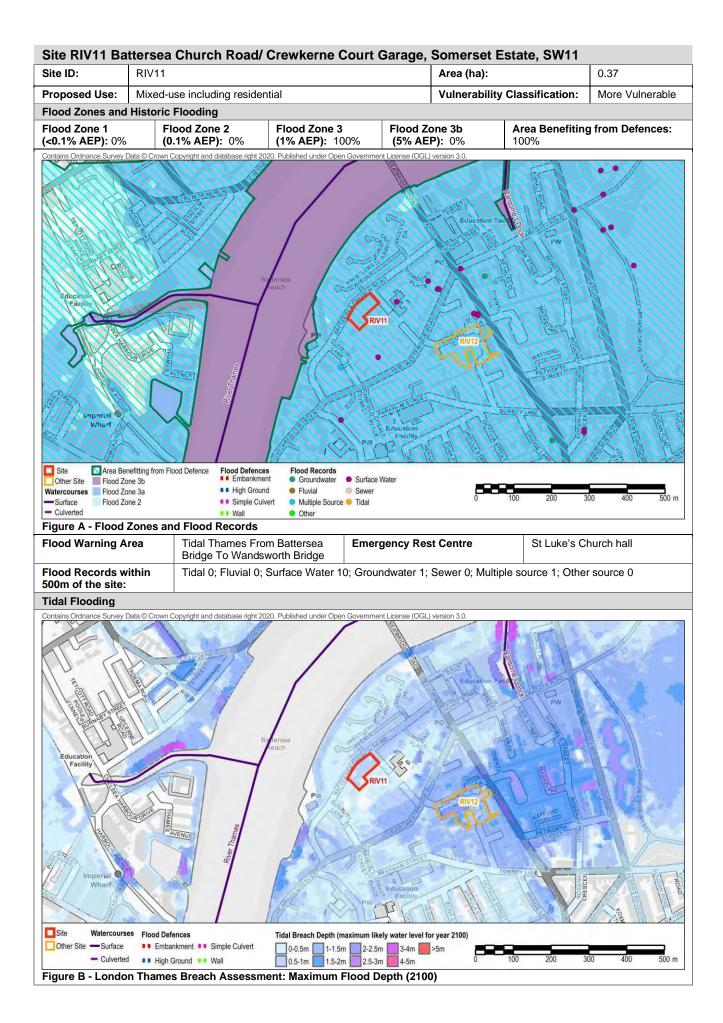
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding below ground.

Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.03-5.37m AOD¹.
- In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV11 Battersea Church Road/ Crewkerne Court Garage, Somerset Estate, SW11

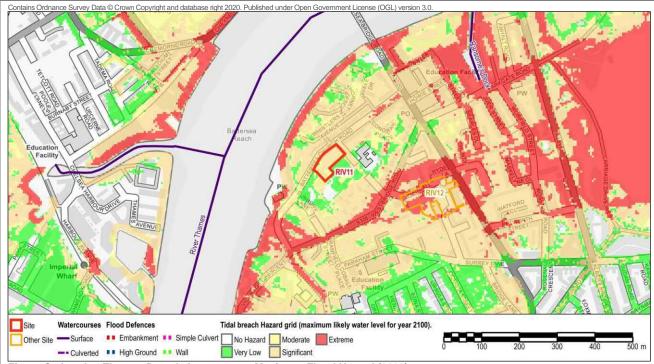


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW)

Contains Ordnance Survey Data © Crown Copyright and Education Facility Imperial Wharf	By he risea Education Facility Risk of Flooding from Surface Water
	ace Water High Probability
Other Site — Surface Fluvial	Medium Prophability
- Culverted Multiple Source	U 100 200 300 400 500 m I
	- AB C - 1 - D FOX (2015)
Figure D - Risk of Flooding from S	iace water (Korow)
Critical Drainage Area	lone

Low

Critical Drainage Area	None				
Drainage Catchment	DC1	DC1			
Groundwater Flooding					
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel				
Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding of property situated below ground level.			ng of property situated below		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)					
Other Sources					

Risk of flooding from reservoirs

The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site RIV11 Battersea Church Road/ Crewkerne Court Garage, Somerset Estate, SW11

Summary

The site is located 110m west of the tidal River Thames. The site is defined as Flood Zone 3a High probability of flooding and is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Significant ('danger for most') on the site, and 0.5-1m depth, Significant hazard rating ('danger for most') on Battersea Church Road for the year 2100. Flood levels on the site are ~4.82-4.89m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site, and also on Battersea Church Road adjacent to the site. There are 10 reported incidents of surface water flooding within 500m of the site.

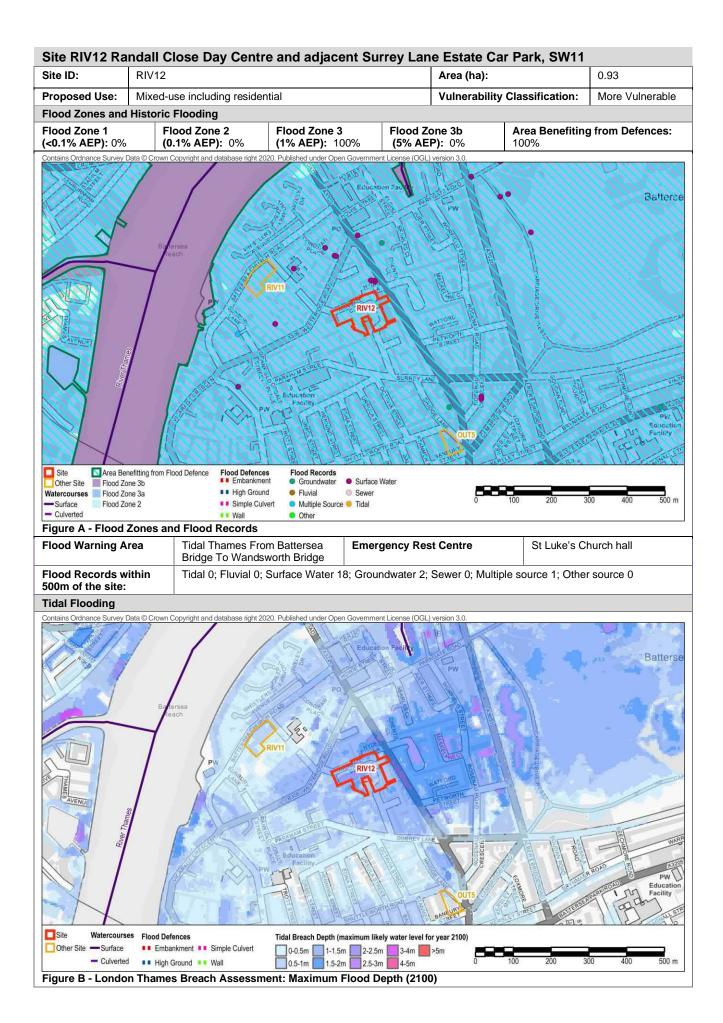
There is 1 reported incident of groundwater flooding within 500m of the site. Broadscale mapping identifies the potential for groundwater flooding below ground level.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from 4.82-4.89m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site RIV12 Randall Close Day Centre and adjacent Surrey Lane Estate Car Park, SW11

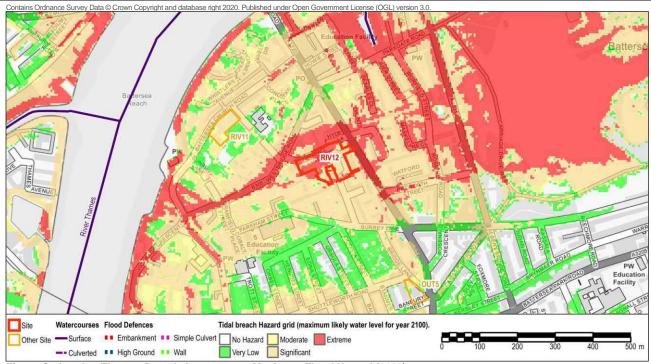


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW)

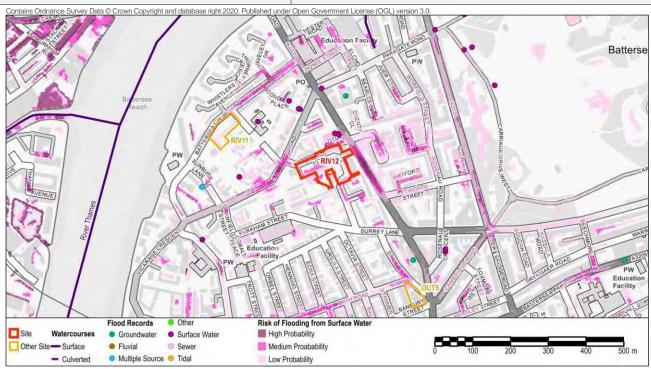


Figure D - Risk of Flooding from Surface Water (RoFSW)

	on carrage mater (mer cm)			
Critical Drainage Area	None	None		
Drainage Catchment	DC1	DC1		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand	
Susceptibility to Groundwate	usceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.			
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011) Yes				
Other Sources				
Risk of flooding from reservoirs				

Site RIV12 Randall Close Day Centre and adjacent Surrey Lane Estate Car Park, SW11

Summary

The site is located 70m east of the tidal River Thames. The site is defined as Flood Zone 3 High probability of flooding. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-2m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and up to 2m depth, Extreme hazard rating on Battersea Bridge Road ('danger for all') for the year 2100. Flood levels on the site are ~4.33-4.48m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site and also on Westbridge Road located west to the site. Broadscale mapping suggests there are 18 reported incidents of surface water flooding within 500m of the site.

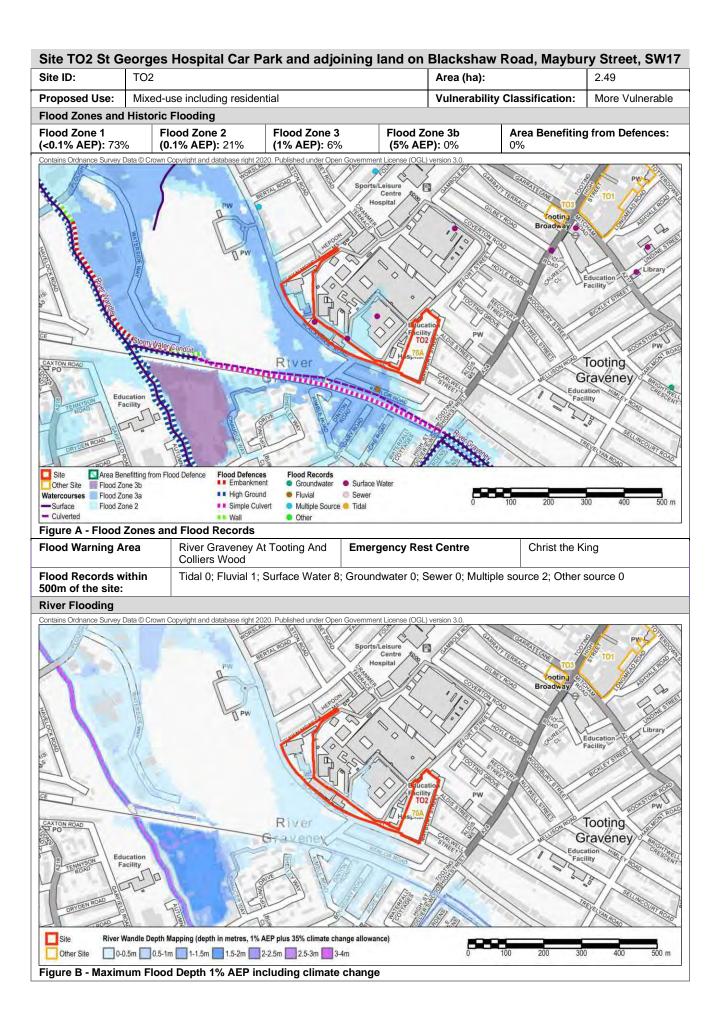
There are 2 reported incidents of groundwater flooding within 500m of the site. Broadscale mapping suggests that there may be potential for groundwater flooding at surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood levels from the London Thames Breach Assessment in this location vary across the site from 4.33-4.48m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Power Station To Battersea Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site TO2 St Georges Hospital Car Park and adjoining land on Blackshaw Road, Maybury Street, SW17

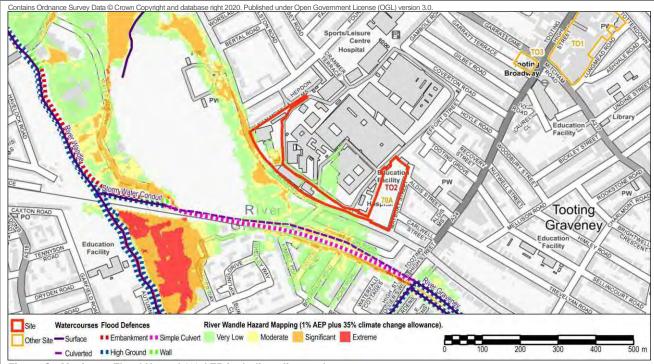


Figure C - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW)

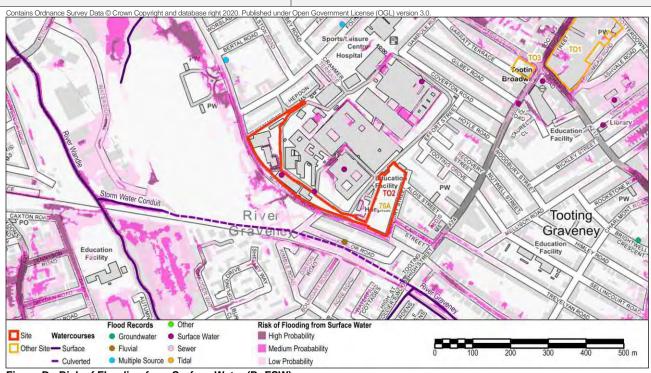


Figure D - Risk of Flooding from Surface Water (RoFSW)

rigule D - Kisk of Flooding in	rigule D - Kisk of Flooding from Surface Water (Korsw)			
Critical Drainage Area	Group7_017 St Georges Hospita	Group7_017 St Georges Hospital [Wandsworth]		
Drainage Catchment	DC14	DC14		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand Superficial Geology and Gravel Sand and Gravel			
Susceptibility to Groundwater	Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.			
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011) Yes				
Other Sources				
Risk of flooding from reservoirs				

Site TO2 St Georges Hospital Car Park and adjoining land on Blackshaw Road, Maybury Street, SW17

Summary

The River Graveney flows in culvert from east to west approximately 100m to the south of the site, adjacent to the railway line. The majority of the site (73%) is defined as Flood Zone 1 Low probability of flooding from rivers. 21% is defined as Flood Zone 2 Medium probability and 6% as Flood Zone 3a High probability.

Modelling of the River Wandle including the River Graveney shows that the site is at risk of flooding and during the 1% AEP event including 35% allowance for climate change 15% of the site is at risk of flooding. The depth mapping indicates flood water would inundate the site to a depth of up to 0.5m, with a corresponding hazard rating ranging from Low to Significant ('danger for most').

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on the roads around the edge of the site (Blackshaw Road). There are records of surface water flooding in proximity to the site and it is located within a Critical Drainage Area (CDA 017 St Georges Hospital). There are 8 reported incidents of surface water flooding within 500m of the site.

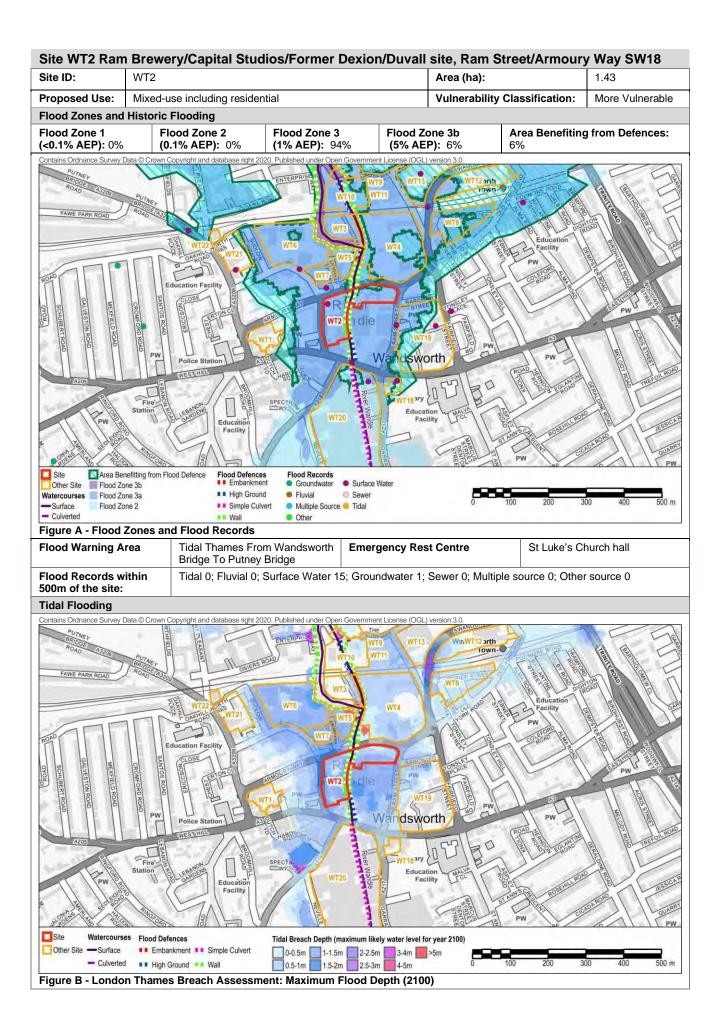
There are no recorded records of groundwater flooding in close proximity to the site. Broadscale mapping suggests there may be potential for groundwater flooding to occur at surface in this area.

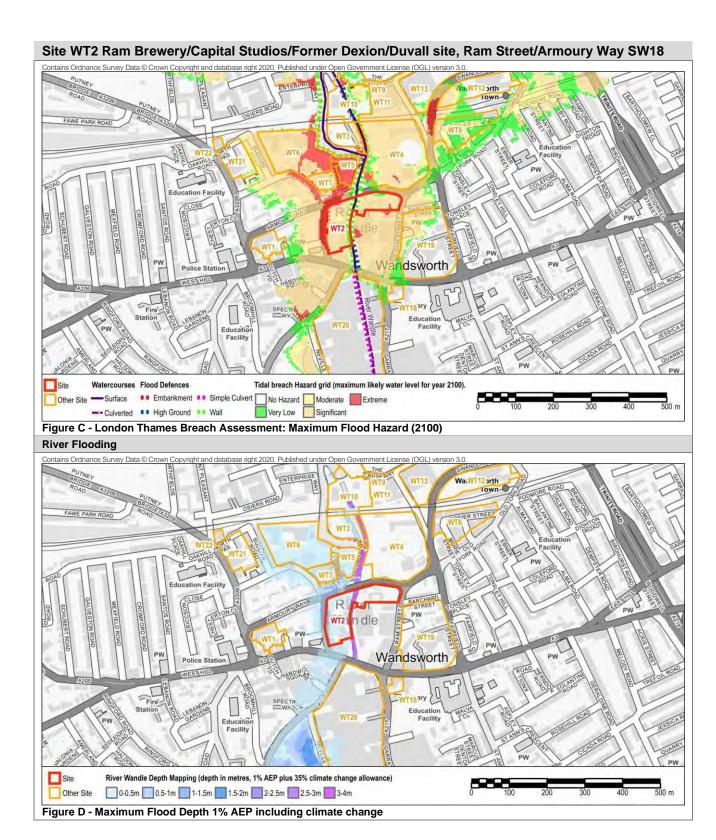
Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas in Flood Zone 1 and 2 at lower risk of river flooding, as well as areas at lower risk of surface water flooding.
- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change.
- The access/egress routes for the site along Blackshaw Road are also shown to be at risk of flooding during the 1% AEP event including 35% climate change allowance with depths up to 0.5m. A place of safe refuge should be provided within the proposed development above the 1% AEP event including an appropriate allowance for climate change² modelled flood level, and a Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will take before, during and after a flood event to ensure their safety, and to demonstrate the development will not impact on the ability of the local authority and the emergency services to safeguard the current population.
- The proposed development must not reduce the ability of the floodplain to store water. This should be considered in relation to the 1% AEP modelled flood event including 35% allowance for climate change. Floodplain compensation storage must be provided on a level-for-level and volume-for-volume basis. Further guidance on the provision of compensatory flood storage is provided in section A3.3.10 of the CIRIA document C624.
- The site is located within the Flood Warning Area for River Graveney at Tooting and Colliers Wood. Occupants of the site should sign up to receive the Flood Warning Service.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances





Site WT2 Ram Brewery/Capital Studios/Former Dexion/Duvall site, Ram Street/Armoury Way SW18

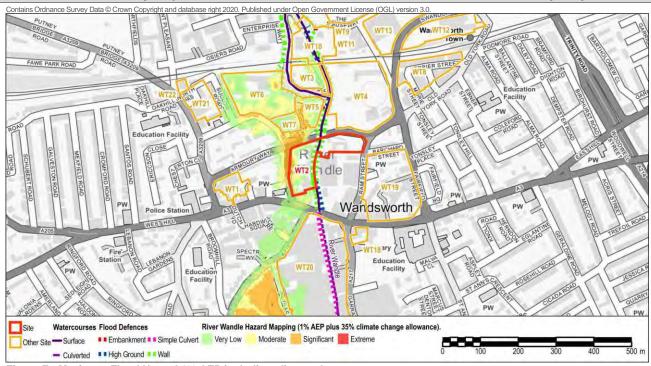


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW)

Low, Medium, High

WawTi2 3rth

County PW

Police Station

PW

Police Station

Risk of Flooding from Surface Water

PW

Proposition

Risk of Flooding from Surface Water

County PW

Proposition

Risk of Flooding from Surface Water

PW

Proposition

Risk of Flooding from Surface Water

Proposition

Risk of Flooding from Surface Water

PW

Proposition

Risk of Flooding from Surface Water

Critical Drainage Area	None				
Drainage Catchment	DC6, DC7				
Groundwater Flooding					
Bedrock Geology	Pedrock Geology Thames Group - Clay, Silt, Sand and Gravel Superficial Geology Clay, Silt and Sand				
Susceptibility to Groundwater Flooding (BGS) Limited potential for groundwater flooding to occur.			er flooding to occur.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes			
Other Courses					

Other Sources

Risk of flooding from reservoirsThe Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site WT2 Ram Brewery/Capital Studios/Former Dexion/Duvall site, Ram Street/Armoury Way SW18

Summary

The River Wandle flows north through the site. The majority of the site (94%) is defined as Flood Zone 3a High probability of flooding from rivers or the sea, with a small area (6%) of Flood Zone 3b Functional Floodplain.

Modelling shows the site to be at risk of flooding from the River Wandle when considering the impact of climate change. During the modelled 1% AEP event including 35%, climate change, 38% of the site is at risk of flooding, and the hazard rating on the site is Significant, which presents a 'danger for most'. Flood levels are~ 4.46-5.10m AOD1 on the site. During the 1% AEP event including 70% allowance for climate change levels increase to ~4.77-5.80m AOD1.

The River Wandle meets the tidal River Thames approximately 490m north of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate part of the site to a depth of 1.5-2.0m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 1.5-2.0m depth, Extreme hazard rating on Armoury Way and Wandsworth Plain ('danger for all') for the year 2100. Flood levels on the site vary from ~5.53-5.79m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site, and also on Armoury Way and Wandsworth Plain adjacent to the site. Broadscale mapping suggests there are 15 reported incidents of surface water flooding within 500m of the site.

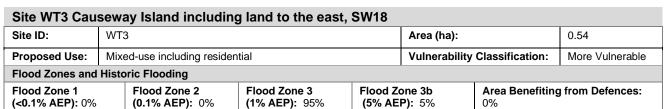
There is 1 reported incident of groundwater flooding within 500m of the site.

Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 16m from the tidal river.
- Development of this site will need to allow for the flood defences to be raised in line with the TE2100 Plan. Depending on the ownership of the defence, it may be beneficial for the site and wider Borough if raising of the defences was incorporated into the re-development of the site, which could potentially supplement to a wider riverside strategy.
- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change (4.46-5.10m AOD¹). Sleeping accommodation should be set above the tidal extreme water level including an allowance for climate change² (5.53-5.79m AOD).
- The proposed development must not reduce the ability of the floodplain to store water. This should be considered in relation to the 1% AEP modelled flood event including 35% allowance for climate change. Floodplain compensation storage must be provided on a level-for-level and volume-for-volume basis. Further guidance on the provision of compensatory flood storage is provided in section A3.3.10 of the CIRIA document C624.
 - In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for River Wandle at Wandsworth and Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.
- Developments are not appropriate within the functional floodplain 3b unless it is water compatible.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



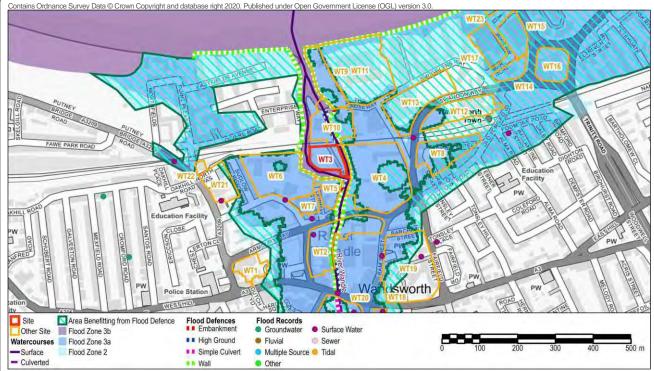
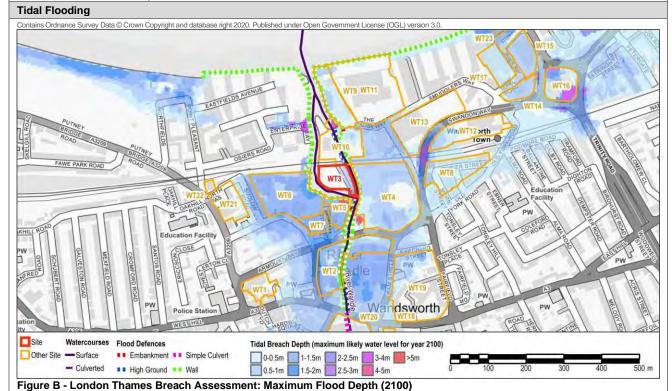


Figure A - Flood Zones and Flood Records

Flood Warning Area	Tidal Thames From Wandsworth Bridge To Putney Bridge	Emergency Rest Centre	St Luke's Church hall
Flood Records within 500m of the site:	Tidal 0; Fluvial 0; Surface Water 1	5; Groundwater 0; Sewer 0; Multiple so	ource 0; Other source 0



Site WT3 Causeway Island including land to the east, SW18 Wandsworth Site Tidal breach Hazard grid (maximum likely water level for year 2100). -- Culverted •• High Ground •• Wall Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **River Flooding** Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 VT9 WT11 WaiWT12 orth wīzan dle Wandsworth River Wandle Depth Mapping (depth in metres, 1% AEP plus 35% climate change allowance) Site

Other Site 0-0.5m 0.5-1m 1-1.5m 1.5-2m 2-2.5m 2.5-3m 3-4m

Figure D - Maximum Flood Depth 1% AEP including climate change

Site WT3 Causeway Island including land to the east, SW18

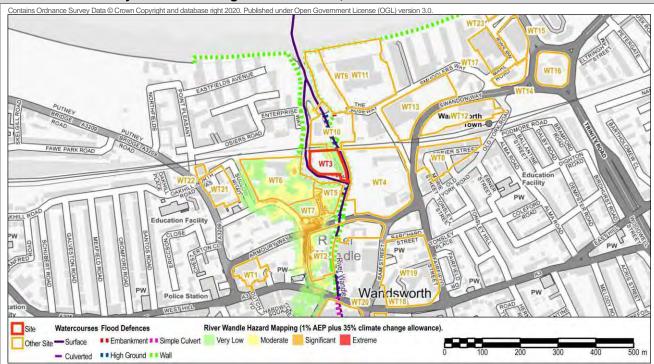


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW)	Low, Medium, High
PUTNEY ROAD ROAD ROAD ROAD ROAD ROAD ROAD ROAD	WT19 WT19 WT19 WT19 WT19 WT19 WT19 WT19
Other Site — Surface Fluvial Sewer Medium	Proabability 0 100 200 300 400 500 m
Culverted Multiple Source Tidal Low Pro	obability

Critical Drainage Area	None				
Drainage Catchment	DC3				
Groundwater Flooding					
Bedrock Geology	Thames Group - Clay, Silt, Sand Superficial Geology and Gravel Clay, Silt and Sand				
Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding of property situated below ground level.					
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes			
Other Sources					

Risk of flooding from	The Long Term Flood Risk Map shows that the area around the site could be at risk of flooding, in the
reservoirs	event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site WT3 Causeway Island including land to the east, SW18

Summary

The majority of the site (95%) is defined as Flood Zone 3a High probability of flooding, and the remainder of the site is defined as Flood Zone 3b. Functional Floodplain.

The River Wandle flows north along the east of the site, and the Bell Lane Creek on the west of the site, to join the River Thames approximately 270m north of the site.

Modelling of the River Wandle for the 1% AEP event including 35% allowance for climate change shows that approximately half of the site is at risk of flooding. Flood depths of 0-0.5m are modelled to occur, with hazard rating of Low ('Caution'). The flood level varies from ~4.9-5.0m AOD¹

The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 1-1.5m, with flood levels ranging from 5.7-5.9m AOD¹ and a corresponding hazard rating of Significant ('danger for most') on the site, and 1.5-2m depth, Significant hazard rating on Armoury Way ('danger for most') for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on The Causeway road within the site boundary. 15 incidents of surface water flooding have been reported within 500m of the site.

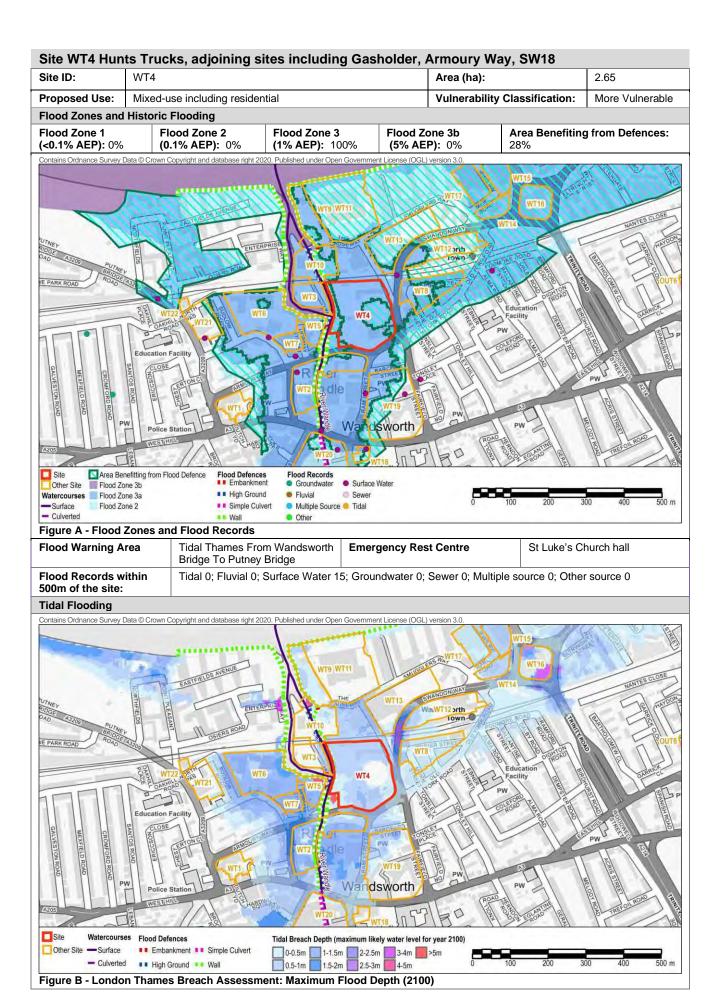
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater below ground level.

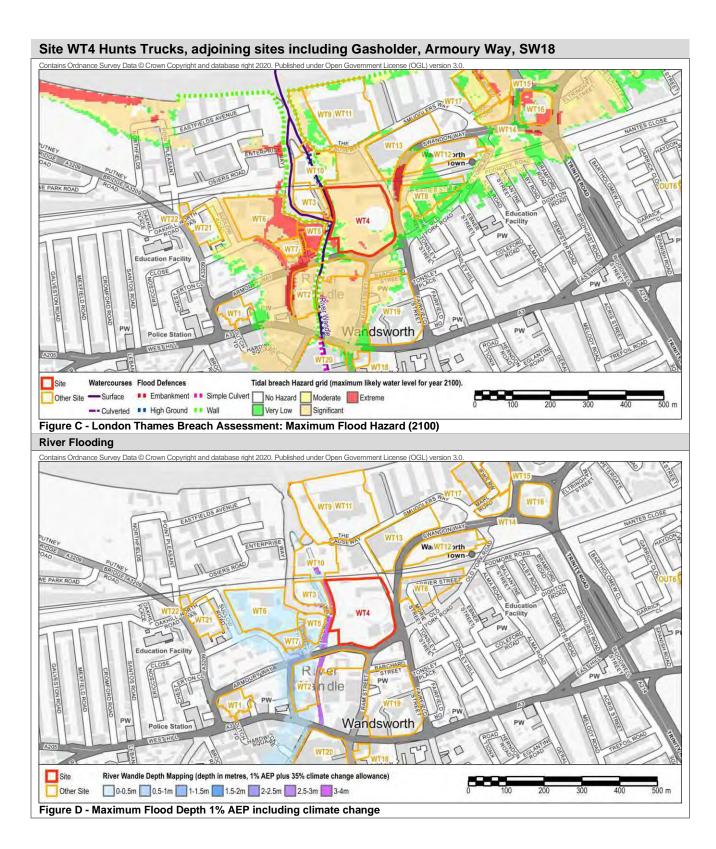
Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 16m from the tidal river
- Development of this site will need to allow for the flood defences to be raised in line with the TE2100 Plan. Depending on the ownership of the defence, it may be beneficial for the site and wider Borough if raising of the defences was incorporated into the re-development of the site, which could potentially supplement to a wider riverside strategy.
- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change (the flood level for the 1% AEP event including 35% and 70% allowances for climate change is 4.9-5.0m AOD).
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change², which in this location is 5.7-5.9m AOD¹.
- The site is located within the Flood Warning Area for River Wandle at Wandsworth and Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.
 The proposed development must not reduce the ability of the floodplain to store water. This should be considered in relation to the 1% AEP modelled flood event including 35% allowance for climate change. Floodplain compensation storage must be provided on a level-for-level and volume-for-volume basis. Further guidance on the provision of compensatory flood storage is provided in section A3.3.10 of the CIRIA document C624.
- Developments are not appropriate within the functional floodplain 3b unless it is water compatible.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances





Site WT4 Hunts Trucks, adjoining sites including Gasholder, Armoury Way, SW18

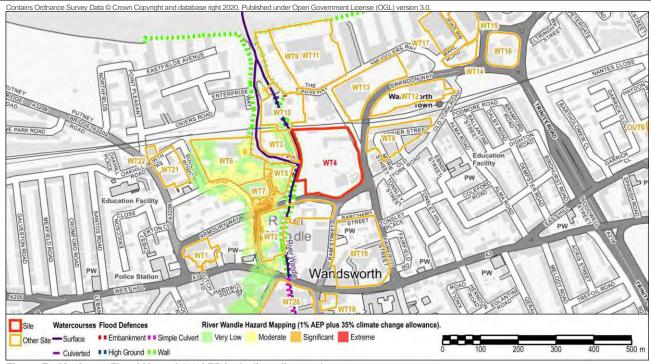


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium, High Risk of Flooding from Surface Wat Site Watercourses Groundwater Surface Water High Probability Other Site - Surface Sewer Multiple Source
 Tidal Low Probability - Culverted

Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None		
Drainage Catchment	DC3, DC7		
Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand
Susceptibility to Groundwater F	Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes	
Other Sources			

The Long Term Flood Risk Map does not identify the site to be at risk of flooding in the event of a breach Risk of flooding from reservoirs or failure of a reservoir.

Site WT4 Hunts Trucks, adjoining sites including Gasholder, Armoury Way, SW18

Summary

The site is wholly within Flood Zone 3a High probability of flooding. The River Wandle flows north along the western edge of the site and meets the tidal River Thames approximately 300m north of the site.

Modelling of the River Wandle for the 1% AEP event including 35% and 70% allowances for climate change shows that the site is not at risk of flooding. The modelled flood level within the River Wandle adjacent to the site is ~5.02m AOD¹ for both of these modelled events.

The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water could inundate the site to a depth of 1.0-1.5m, with a corresponding hazard rating of Extreme ('danger for all'), and 1.5-2m depth, Significant hazard rating on Armoury Way ('danger for most') for the year 2100. Flood levels for this event vary from ~5.73-5.86m AOD¹ on the site.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond towards at the south of the site, and also on Amoury Way to the south of the site. 15 incidents of surface water flooding have been reported within 500m of the site.

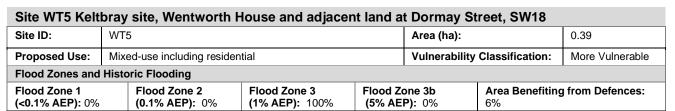
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface.

Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change (5.02m AOD). Sleeping accommodation should be set above the extreme water level including an allowance for climate change. The modelled flood level from the London Thames Breach Assessment in this location is ~5.73-5.86m AOD (for the year 2100)¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change².
- The site is located within the Flood Warning Area for River Wandle at Wandsworth and Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



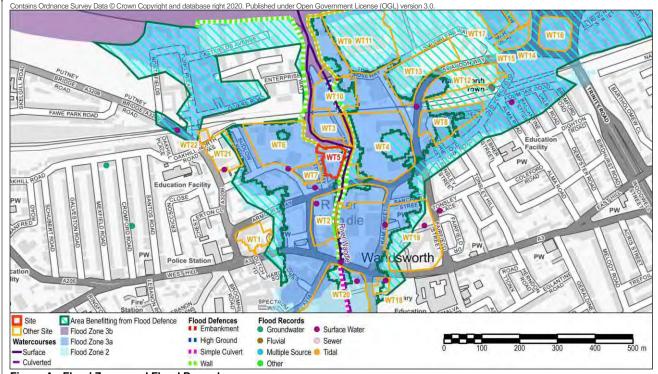
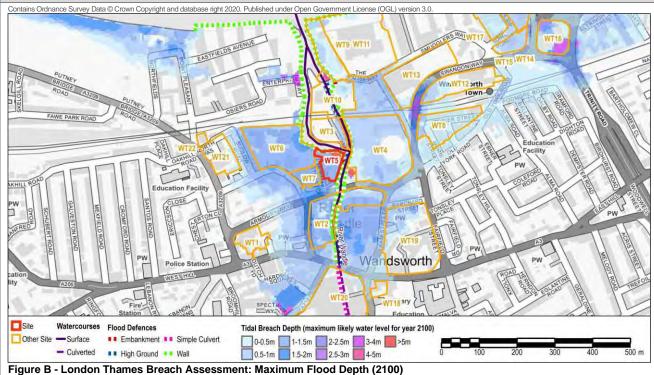
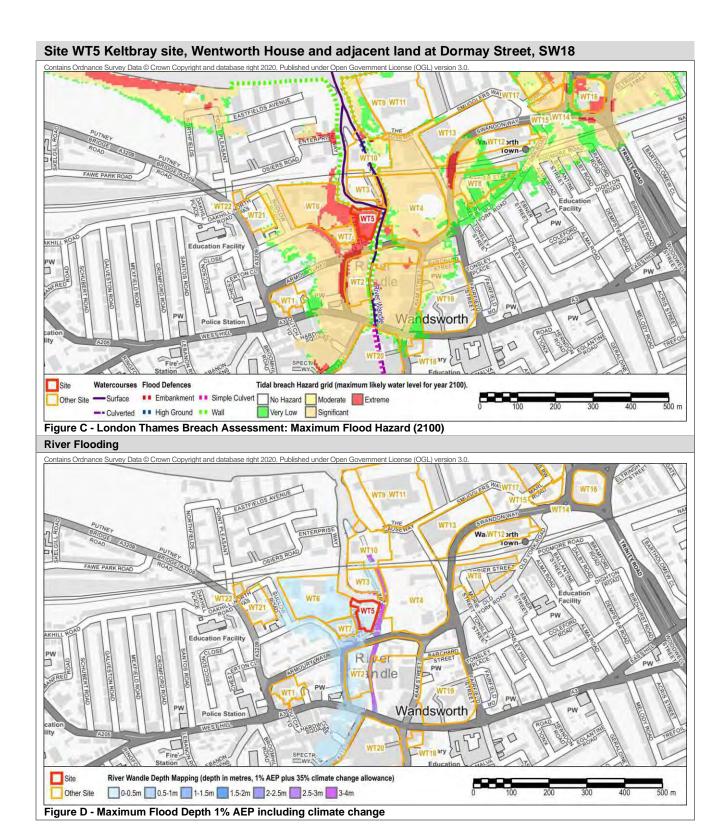


Figure A - Flood Zones and Flood Records

Flood Warning Area	Tidal Thames From Wandsworth Bridge To Putney Bridge	Emergency Rest Centre	St Luke's Church hall
Flood Records within 500m of the site:	Tidal 0; Fluvial 0; Surface Water 15	5; Groundwater 0; Sewer 0; Multiple so	ource 0; Other source 0

Tidal Flooding





Site WT5 Keltbray site, Wentworth House and adjacent land at Dormay Street, SW18

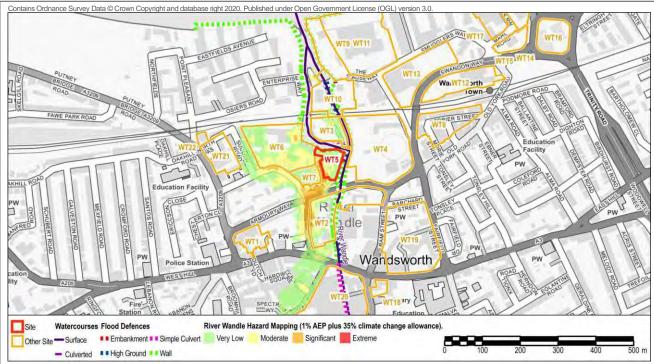


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium, High Risk of Flooding from Surface Site Watercourses Groundwater Surface Water High Probability Other Site - Surface Sewer Medium Proabability Multiple Source
 Tidal Low Probability Culverted Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None				
Drainage Catchment	DC6, DC7				
Groundwater Flooding					
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand		
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level.			
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		No			
Other Sources					

Risk of flooding from The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or reservoirs failure of a reservoir. (It is not possible to determine which reservoir).

Site WT5 Keltbray site, Wentworth House and adjacent land at Dormay Street, SW18

Summary

The site is located approximately 10m west of the River Wandle and adjacent to the Bell Lane Creek watercourse. The River Wandle meets the tidal River Thames approximately 360m north of the site. The site is defined as Flood Zone 3a High probability of flooding.

The site is modelled to be at increasing risk of flooding from the River Wandle when considering the impact of climate change. During the modelled 1% AEP event including 35%, climate change, 81% of the site is at risk of flooding. The River Wandle Flood Depth Mapping indicates flood water would inundate the site to a depth of 0.5-1.0m¹, with a corresponding hazard rating of Significant ('danger for most'). The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water could inundate the site to depths of 1-1.5m¹, and as much as 5m in the north eastern part of the site, for the year 2100. The hazard rating across the site is Extreme ('danger for all') on the site. Depths of 1.5-2m, and Extreme hazard rating ('danger for all') are modelled to occur on Armoury Way to the south of the site.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond towards at the south of the site, and also on Amoury Way to the south of the site. 15 incidents of surface water flooding have been reported within 500m of the site.

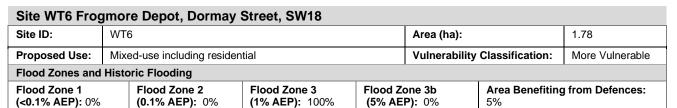
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding of property below ground level.

Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 16m from the tidal river.
- Development of this site will need to allow for the flood defences to be raised in line with the TE2100 Plan. Depending on the ownership of the defence, it may be beneficial for the site and wider Borough if raising of the defences was incorporated into the re-development of the site, which could potentially supplement to a wider riverside strategy.
- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change (4.79m AOD¹ for the 1% AEP including 35% CC²).
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change² (5.81-5.96m AOD¹).
- The proposed development must not reduce the ability of the floodplain to store water. This should be considered in relation to the 1% AEP modelled flood event including 35% allowance for climate change. Floodplain compensation storage must be provided on a level-for-level and volume-for-volume basis. Further guidance on the provision of compensatory flood storage is provided in section A3.3.10 of the CIRIA document C624.
- The site is located within the Flood Warning Area for Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



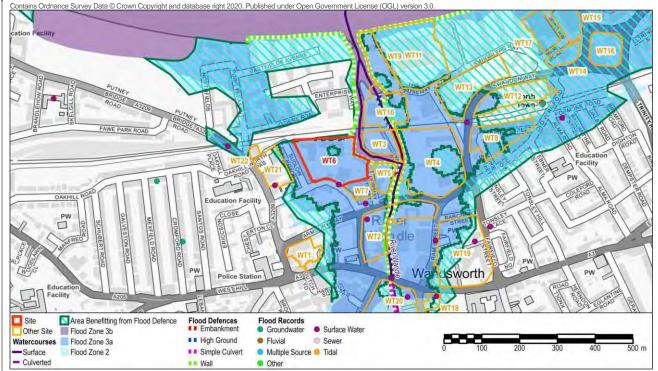
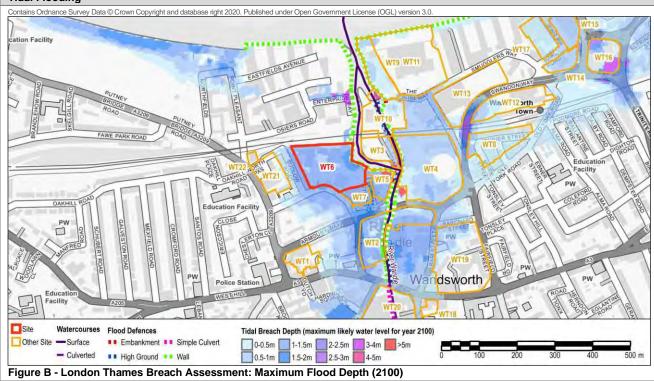


Figure A - Flood Zones and Flood Records

Flood Warning Area	Tidal Thames From Wandsworth Bridge To Putney Bridge	Emergency Rest Centre	St Luke's Church hall
Flood Records within 500m of the site:	Tidal 0; Fluvial 0; Surface Water 14; Groundwater 2; Sewer 0; Multiple source 0; Other source 0		

Tidal Flooding



Site WT6 Frogmore Depot, Dormay Street, SW18 ce Survey Data © Crown Copyright and database right 2020. Published under Open Go ation Facility Wandsworth Watercourses Flood Defences Tidal breach Hazard grid (maximum likely water level for year 2100). -- Culverted •• High Ground •• Wall Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **River Flooding** Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 ation Facility VT9 WT11 wizz n dle Wandsworth River Wandle Depth Mapping (depth in metres, 1% AEP plus 35% climate change allowance) Site 0-0.5m 0.5-1m 1-1.5m 1.5-2m 2-2.5m 2.5-3m 3-4m

Figure D - Maximum Flood Depth 1% AEP including climate change

Site WT6 Frogmore Depot, Dormay Street, SW18

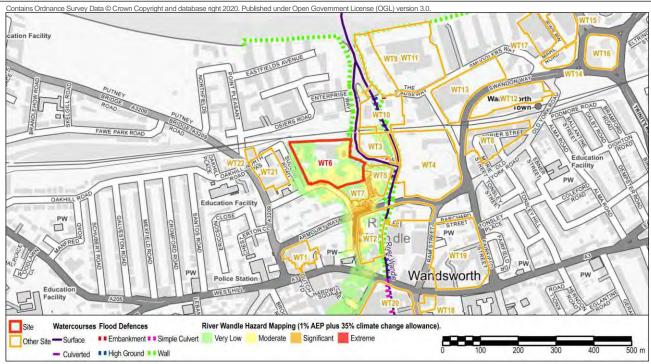


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium, High indsworth Risk of Flooding from Surface Water Site Watercourses Groundwater Surface Water High Probability Other Site - Surface Fluvial Sewer Medium Proabability Multiple Source
 Tidal Low Probability Culverted

Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None			
Drainage Catchment	DC6	DC6		
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand	
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater floodir	ng to occur at surface.	
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		No		
Other Sources				

Other Sources

The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or Risk of flooding from reservoirs failure of a reservoir. (It is not possible to determine which reservoir).

Site WT6 Frogmore Depot, Dormay Street, SW18

Summary

The Bell Lane Creek River Wandle flows north along the eastern edge of the site. the east and north of the site. The site is defined as Flood Zone 3a High probability of flooding.

Modelling shows that the site is at risk of flooding from the River Wandle. During the modelled 1% AEP event including 35%, climate change, 75% of the site is at risk of flooding. The depth mapping indicates flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Significant ('danger for most'). The flood levels on the site are ~4.79m AOD¹ for the 1% AEP event including 35% allowance for climate change, increasing to ~5.80m AOD¹ for the 1% AEP event including 70% allowance for climate change.

The River Wandle meets the tidal River Thames approximately 280m north of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 1.5-2.0m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 1.5-2.0m depth, Extreme hazard rating on Frogmore and Armoury Way ('danger for all') for the year 2100

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site, and also on Frogmore located south to the site. Broadscale mapping suggests there are 14 reported incidents of surface water flooding within 500m of the site.

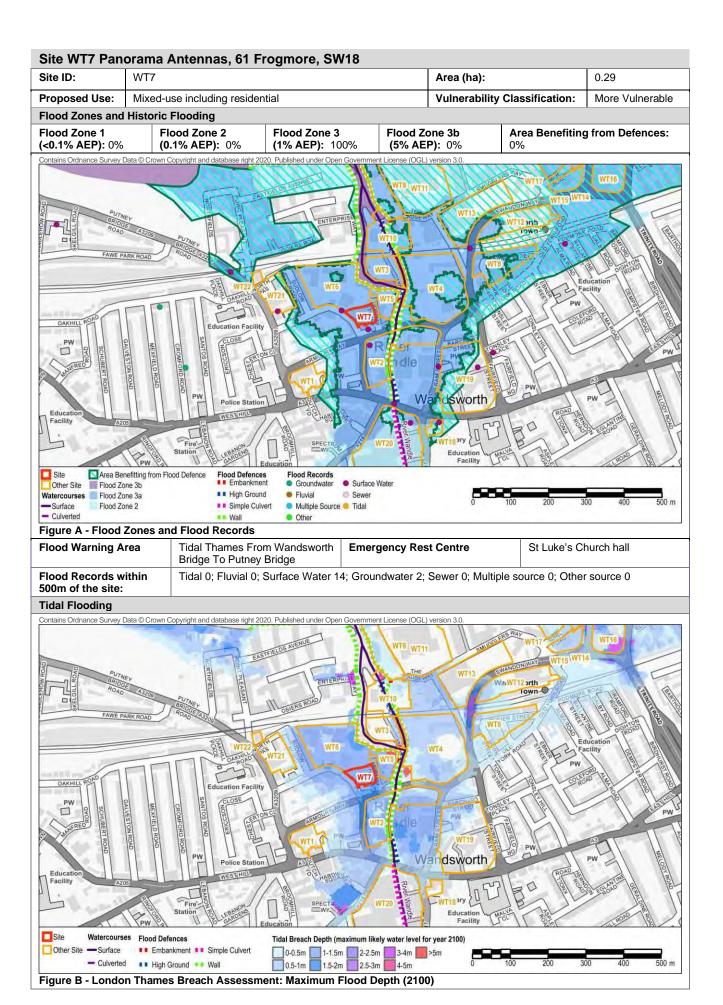
There are 2 reported incidents of groundwater flooding within 500m of the site.

Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 16m from the tidal river.
- Development of this site will need to allow for the flood defences to be raised in line with the TE2100 Plan. Depending on the ownership of the defence, it may be beneficial for the site and wider Borough if raising of the defences was incorporated into the re-development of the site, which could potentially supplement to a wider riverside strategy.
- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change (4.79m AOD¹ for the 1% AEP including 35% climate change allowance²).
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change (5.81-5.96m AOD).
- The proposed development must not reduce the ability of the floodplain to store water. This should be considered in relation to the 1% AEP modelled flood event including 35% allowance for climate change². Floodplain compensation storage must be provided on a level-for-level and volume-for-volume basis. Further guidance on the provision of compensatory flood storage is provided in section A3.3.10 of the CIRIA document C624.
- The site is located within the Flood Warning Area for Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site WT7 Panorama Antennas, 61 Frogmore, SW18 Contains Ordnance Survey Data © Crown Copyright and database right 2020. Publis ndsworth Education Facility Site Watercourses Flood Defences Tidal breach Hazard grid (maximum likely water level for year 2100). Surface •• Embankment •• Simple Culvert No Hazard Moderate Extreme -- Culverted •• High Ground •• Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **River Flooding** Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 River wīzi n dle Wandsworth BAN Site River Wandle Depth Mapping (depth in metres, 1% AEP plus 35% climate change allowance) 0-0.5m 0.5-1m 1-1.5m 1.5-2m 2-2.5m 2.5-3m 3-4m

Figure D - Maximum Flood Depth 1% AEP including climate change

Site WT7 Panorama Antennas, 61 Frogmore, SW18

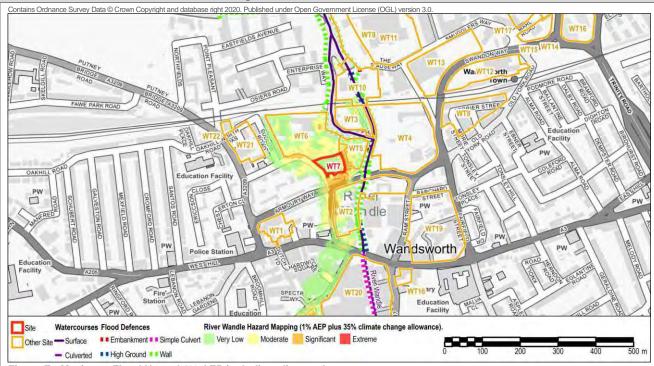


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium, High andsworth Risk of Flooding from Surface Water Site Watercourses Groundwater Surface Water High Probability Other Site - Surface Medium Proabability Multiple Source
 Tidal - Culverted Low Probability

Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None		
Drainage Catchment	DC6		
Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand
Susceptibility to Groundwater Flooding (BGS)		Limited potential for groundwater flooding to occur.	
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		No	
Other Sources			

The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or Risk of flooding from reservoirs failure of a reservoir. (It is not possible to determine which reservoir).

Site WT7 Panorama Antennas, 61 Frogmore, SW18

Summary

The River Wandle is located approximately 120m east of the site and flows north where it divides into the Wandle and Bell Lane Creek, which both flow to meet the tidal Thames mately 420m north of the site. The site is wholly within Flood Zone 3a High probability of flooding from river and/or the sea (tidal sources).

Modelling of the River Wandle shows that most of the site (89%) is at risk of flooding during the 1% AEP event including 35% allowance for climate change. The depth mapping indicates flood water would inundate the site to a depth of 0.5m, with a corresponding hazard rating of Moderate ('danger for some'). The flood level on the site for the 1% AEP event including 35% allowance for climate change is ~4.79m AOD¹. The flood level on the site for the 1% AEP event including 70% allowance for climate change is ~5.80m AOD¹.

The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 1.0-1.5m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and 1.5-2.0m depth, Extreme hazard rating on Armoury Way ('danger for all') for the year 2100. The flood level for this event on the site is 5.79m AOD for the year 2100¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond at the south of the site, and also on Frogmore, Dormay Street and Armoury Way adjacent to the site. There are 14 reported incidents of surface water flooding within 500m of the site.

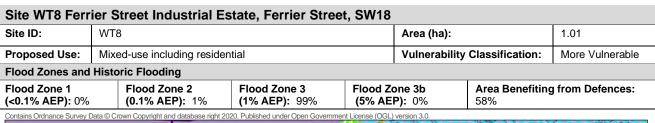
There are 2 reported incidents of groundwater flooding within 500m of the site.

Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change (4.79m AOD¹ for the 1% AEP including 35% CC²).
- Finished floor levels for sleeping accommodation should be set above the extreme tidal water level including an allowance for climate change. The modelled flood level from the London Thames Breach Assessment in this location is ~5.79m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme tidal water level including an allowance for climate change².
- The proposed development must not reduce the ability of the floodplain to store water. This should be considered in relation to the 1% AEP modelled flood event including 35% allowance for climate change. Floodplain compensation storage must be provided on a level-for-level and volume-for-volume basis. Further guidance on the provision of compensatory flood storage is provided in section A3.3.10 of the CIRIA document C624.
- The site is located within the Flood Warning Area for River Wandle at Wandsworth and Tidal Thames From Wandsworth Bridge To Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- · The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



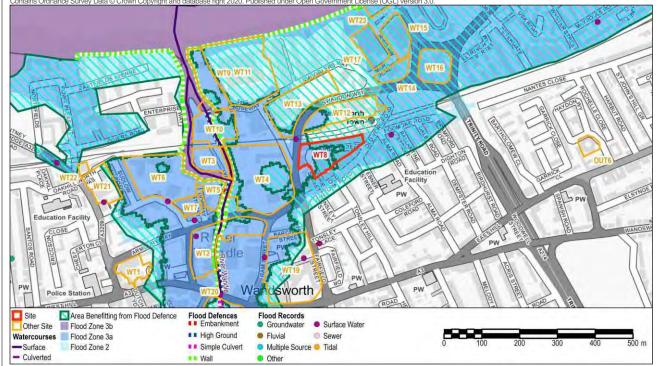
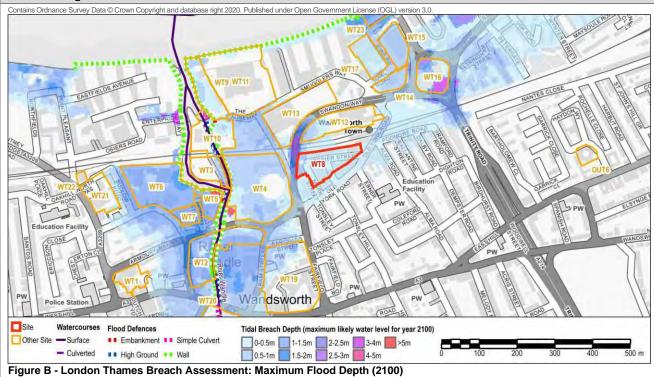


Figure A - Flood Zones and Flood Records

Flood Warning Area	Tidal Thames From Wandsworth Bridge To Putney Bridge	Emergency Rest Centre	St Luke's Church hall
Flood Records within 500m of the site:	Tidal 0; Fluvial 0; Surface Water 1:	3; Groundwater 0; Sewer 0; Multiple so	ource 0; Other source 0

Tidal Flooding



Site WT8 Ferrier Street Industrial Estate, Ferrier Street, SW18 Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Go Wandsworth Site Tidal breach Hazard grid (maximum likely water level for year 2100). Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **River Flooding** Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 wizan dle Wandsworth

River Wandle Depth Mapping (depth in metres, 1% AEP plus 35% climate change allowance)

Other Site 0-0.5m 0.5-1m 1-1.5m 1.5-2m 2-2.5m 2.5-3m 3-4m

Figure D - Maximum Flood Depth 1% AEP including climate change

Site

Site WT8 Ferrier Street Industrial Estate, Ferrier Street, SW18

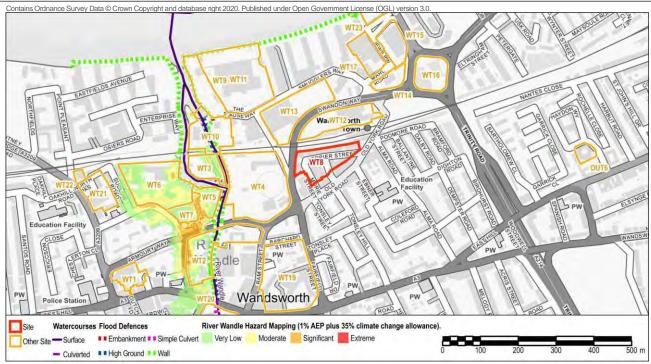


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium Risk of Flooding from Surface Water Site High Probability Watercourses Groundwater Surface Water Other Site - Surface Sewer Medium Proabability Multiple Source
 Tidal - Culverted Low Probability Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	Group7_016 Trinity Road [Wandsworth]		
Drainage Catchment	DC7		
Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater floodir	ng to occur at surface.
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes	
Other Sources			

Risk of flooding from	The Long Term Flood Risk Map shows that the site is not at risk of flooding, in the event of a breach or
reservoirs	failure of a reservoir.

Site WT8 Ferrier Street Industrial Estate, Ferrier Street, SW18

Summary

The River Wandle is located approximately 280m west to the site and the River Thames flows west to east approximately 340m to the north of the site. The site is defined as Flood Zone 3a High probability of flooding from rivers or the sea (tidal sources).

Modelling outputs show that the site is not at risk of flooding from the River Wandle, either now or in the future as a result of climate change.

The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Significant ('danger for most') on the site, and 3.0-4.0m depth, Extreme hazard rating on Swandon Way ('danger for all') for the year 2100. Old York Road has a hazard rating of Very Low ('caution') and 0.5m depth for the year 2100. Flood levels recorded on the site vary from ~5.49-5.73m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond at Ferrier Street within the site boundary, and also on Swandon Way adjacent to the site. There are 13 reported incidents of surface water flooding within 500m of the site, and it is located within a Critical Drainage Area (CDA 016 Trinity Road).

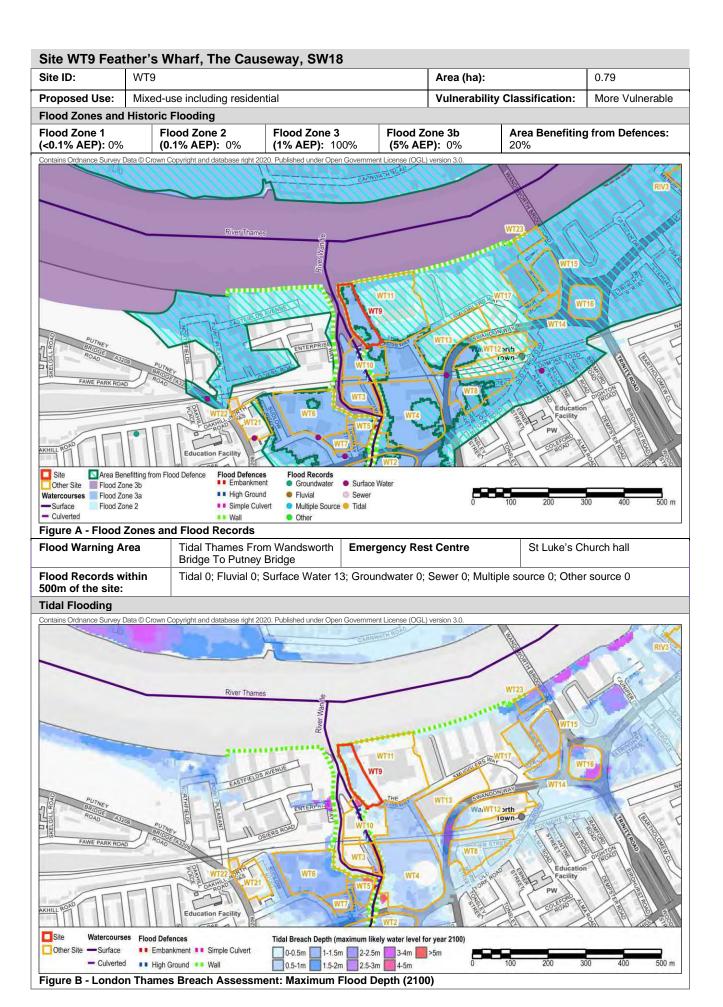
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding at the surface.

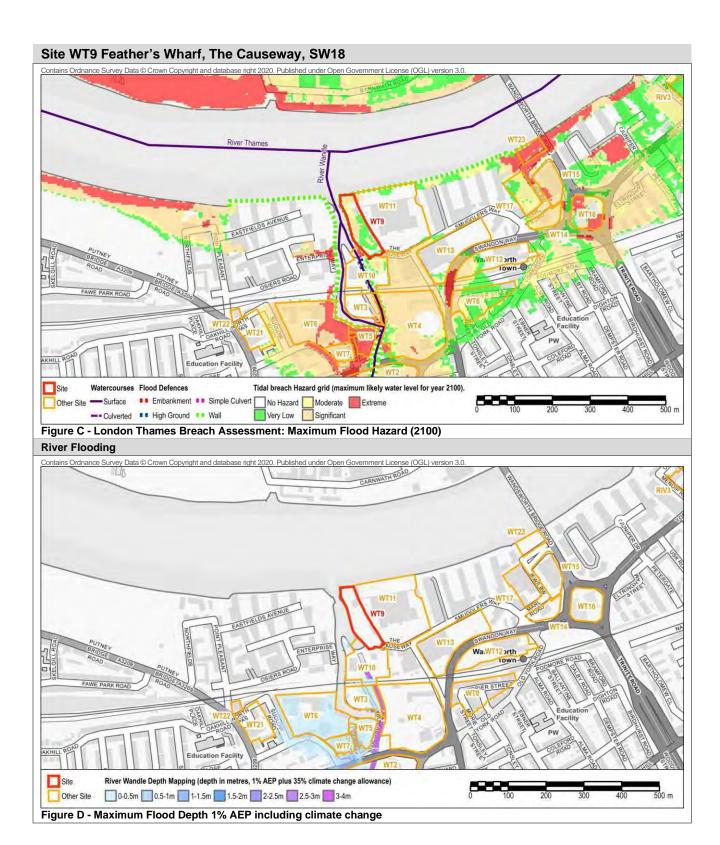
Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change. The modelled flood level from the London Thames Breach Assessment in this location is ~5.49-5.73m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change².
- The site is located within the Flood Warning Area for the Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances





Site WT9 Feather's Wharf, The Causeway, SW18

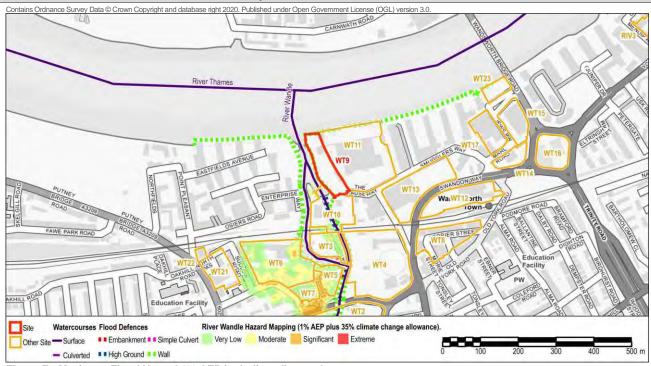


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

reservoirs

Risk of Flooding from Surface Water (RoFSW) Low, Medium, High Risk of Flooding from Surface Water Site Groundwater Surface Water High Probability - Surface Sewer Multiple Source
 Tidal Low Probability Culverted Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None		
Drainage Catchment	DC2		
Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand, Sand and Gravel
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level. Potential for groundwater flooding to occur at surface.	
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes	
Other Sources			
Risk of flooding from	The Long Term Flood Risk Map shows that the eastern edge of the site could be at risk of flooding, in the		

event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site WT9 Feather's Wharf, The Causeway, SW18

Summary

The site is located adjacent to the River Wandle, where the River Wandle meets the River Thames. The site is defined as Flood Zone 3a High probability of flooding.

Modelling shows that the site is not at risk of flooding from the fluvial River Wandle.

The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Significant ('danger for most') on the site, and 1-1.5m depth, Significant hazard rating on Smuggler's Way ('danger for most') for the year 2100. The flood level across the site varies from ~5.47-5.85m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond at the east of the site and also on Smugglers Way to the south east of the site. 13 incidents of surface water flooding have been reported within 500m of the site.

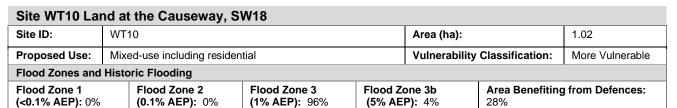
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface and also susceptible to groundwater below ground level.

Site Specific Recommendations

- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 16m from the tidal river.
- Development of this site will need to allow for the flood defences to be raised in line with the TE2100 Plan. Depending on the ownership of the defence, it may be beneficial for the site and wider Borough if raising of the defences was incorporated into the re-development of the site, which could potentially supplement to a wider riverside strategy.
- Sleeping accommodation should be set above the extreme water level including an allowance for climate change, which is 5.47-5.85m AOD¹ on the site for the year 2100².
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



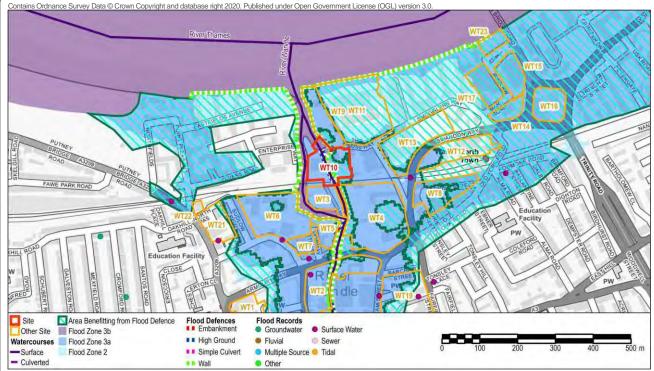
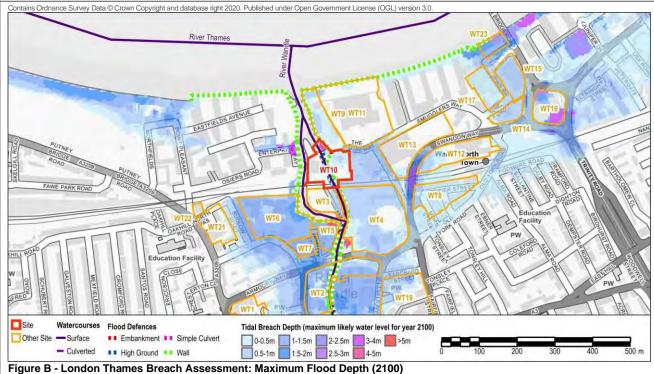


Figure A - Flood Zones and Flood Records

Flood Warning Area	Tidal Thames From Wandsworth Bridge To Putney Bridge	Emergency Rest Centre	St Luke's Church hall
Flood Records within 500m of the site:	Tidal 0; Fluvial 0; Surface Water 1	5; Groundwater 0; Sewer 0; Multiple so	ource 0; Other source 0

Tidal Flooding



Site WT10 Land at the Causeway, SW18 nce Survey Data © Crown Copyright and database right 2020. Published under Open Government Site Watercourses Flood Defences Tidal breach Hazard grid (maximum likely water level for year 2100). Surface Embankment Simple Culvert No Hazard Moderate Extreme Culverted Wery Low Significant -- Culverted •• High Ground •• Wall Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **River Flooding** Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0. n dle

River Wandle Depth Mapping (depth in metres, 1% AEP plus 35% climate change allowance)

Other Site 0-0.5m 0.5-1m 1-1.5m 1.5-2m 2-2.5m 2.5-3m 3-4m

Figure D - Maximum Flood Depth 1% AEP including climate change

Site

Site WT10 Land at the Causeway, SW18

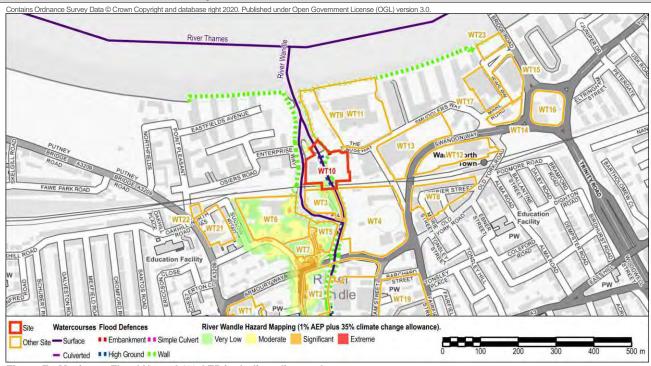


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium Risk of Flooding from ☐ Site Watercourses Groundwater Surface Water High Probability Other Site - Surface Sewer Medium Proabability Multiple Source
 Tidal Low Probability Culverted

Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None		
Drainage Catchment	DC2, DC3, DC7		
Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level. Potential for groundwater flooding to occur at surface.	
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes	
Other Sources			

Risk of flooding from reservoirs

The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site WT10 Land at the Causeway, SW18

Summary

The River Wandle passes through the centre of the site, flowing north to meet the River Thames. The majority of the site (96%) is defined as Flood Zone 3a High probability of flooding, and the remainder of the site is defined as Flood Zone 3b, Functional Floodplain.

Modelling of the River Wandle shows that during the 1% AEP event including 35% climate change, the southern part of the site adjacent to the railway line is at risk of flooding, with depths of 0-0.5m, and a corresponding hazard rating of Moderate ('danger for some'). The flood levels in this area are ~4.7-5.0m AOD1.

The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water could inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Significant (danger for some), with a smaller area of deeper flooding and Extreme hazard rating ('danger for all') in the north of the site. Depths of 1-1.5m depth, and Significant hazard rating ('danger for most') are shown on Smuggler's Way, for the year 2100. Flood levels on the site vary from 5.64-5.74m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on at the site, and on Smugglers Way to the east of the site. 15 incidents of surface water flooding have been reported within 500m of the site.

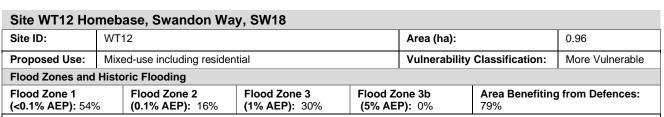
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface and also susceptible to groundwater below ground level.

Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 16m from the tidal river.
- Development of this site will need to allow for the flood defences to be raised in line with the TE2100 Plan. Depending on the ownership of the defence, it may be beneficial for the site and wider Borough if raising of the defences was incorporated into the re-development of the site, which could potentially supplement to a wider riverside strategy.
- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change (4.7-5.0m AOD¹ for the 1% AEP plus 35% climate change event²). Sleeping accommodation should be set above the extreme water level including an allowance for climate change² (5.64-5.74m AOD¹).
 - In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for River Wandle at Wandsworth and Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.
- The proposed development must not reduce the ability of the floodplain to store water. This should be considered in relation to the 1% AEP modelled flood event including 35% allowance for climate change. Floodplain compensation storage must be provided on a level-for-level and volume-for-volume basis. Further guidance on the provision of compensatory flood storage is provided in section A3.3.10 of the CIRIA document C624.
- Developments are not appropriate within the functional floodplain 3b unless it is water compatible.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



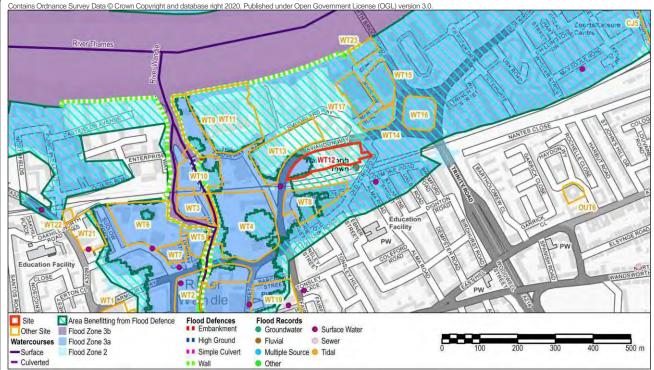
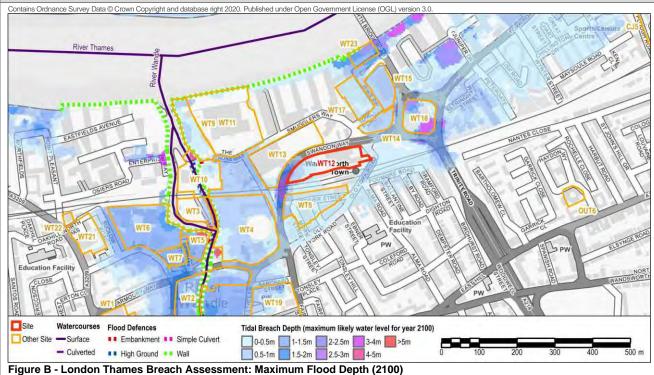


Figure A - Flood Zones and Flood Records

Flood Warning Area	Tidal Thames From Wandsworth Bridge To Putney Bridge	Emergency Rest Centre	St Luke's Church hall
Flood Records within 500m of the site:	Tidal 0; Fluvial 0; Surface Water 12	2; Groundwater 0; Sewer 0; Multiple so	ource 0; Other source 0

Tidal Flooding



Site WT12 Homebase, Swandon Way, SW18 Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Op River Thames Tidal breach Hazard grid (maximum likely water level for year 2100). -- Culverted •• High Ground •• Wall Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **River Flooding** Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0. WT9 WT11 ndle

River Wandle Depth Mapping (depth in metres, 1% AEP plus 35% climate change allowance)

Other Site 0-0.5m 0.5-1m 1-1.5m 1.5-2m 2-2.5m 2.5-3m 3-4m

Figure D - Maximum Flood Depth 1% AEP including climate change

Site

Site WT12 Homebase, Swandon Way, SW18

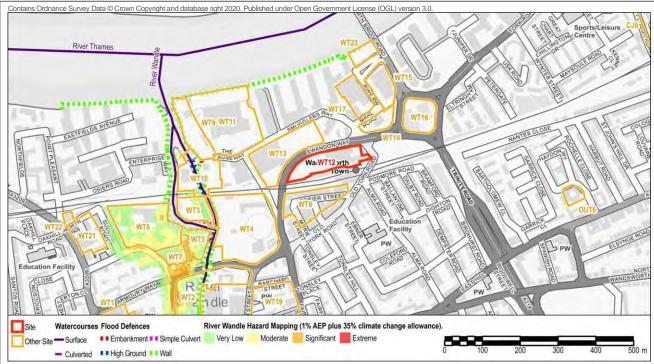


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium River Thames VT9 WT11 Risk of Flooding from Surface Water Site High Probability Watercourses Groundwater Surface Water Other Site - Surface Sewer Medium Proabability Multiple Source
 Tidal - Culverted Low Probability Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	Group/_016 Trinity Road [Wandsworth]		
Drainage Catchment	DC2		
Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding	ng to occur at surface.
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes	
Other Sources			

Other Sources

Risk of flooding from	The Long Term Flood Risk Map shows that the site is not at risk of flooding, in the event of a breach or
reservoirs	failure of a reservoir.

Site WT12 Homebase, Swandon Way, SW18

Summary

54% of the site is defined as Flood Zone 1, Low probability of flooding from rivers or the sea. 30% of the site is defined as Flood Zone 3a High probability of flooding, and 16% Flood Zone 2 Medium probability. The site is located 250m south of the tidal River Thames and is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the western part of the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water could inundate the site to a depth of 1-1.5m, with a corresponding hazard rating of Significant ('danger for most') on the site, and up to 2.5-3m depth, Extreme hazard rating on parts of Swandon Way ('danger for all') for the year 2100. Flood levels on the site are ~5.72m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond at the west edge of the site and also on Swandon Way located adjacent to the site. 14 incidents of surface water flooding have been reported within 500m of the site, and it is located within a Critical Drainage Area (CDA 016, Trinity Road).

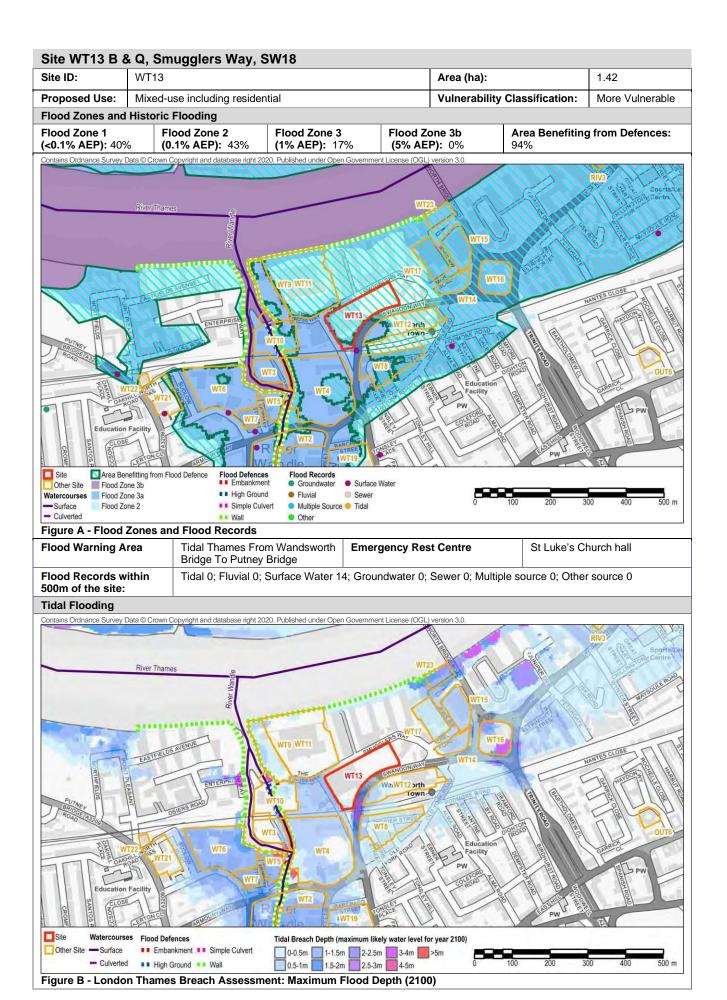
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change. The modelled flood level from the London Thames Breach Assessment in this location is ~5.72m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change².
- The site is located within the Flood Warning Area for the Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site WT13 B & Q, Smugglers Way, SW18 Site Tidal breach Hazard grid (maximum likely water level for year 2100). -- Culverted •• High Ground •• Wall Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **River Flooding** Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 Site River Wandle Depth Mapping (depth in metres, 1% AEP plus 35% climate change allowance)

Other Site 0-0.5m 0.5-1m 1-1.5m 1.5-2m 2-2.5m 2.5-3m 3-4m

Figure D - Maximum Flood Depth 1% AEP including climate change

Site WT13 B & Q, Smugglers Way, SW18

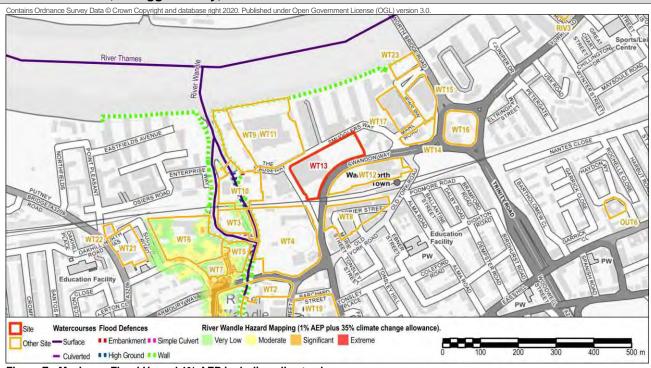


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding		
Risk of Flooding from Surface Wa	ater (RoFSW)	Low
Flood Records Watercourses Groundwater	Surface Water High P Sewer Medium	WT13 Wan WT12 orth Facility PW Probability WT6 RIV3 SportStue Centre OUT6 PW PW PW PW PW PW Probability PW Probability
Figure F - Risk of Flooding from S		
Critical Drainage Area	Group7_016 Trinity Ro	oad [vvandsworth]
Drainage Catchment	DC2	
Groundwater Flooding		

Critical Drainage Area	Gloup/_016 Tillilly Road [wallo	Group/_oro mility Road [wandsworth]				
Drainage Catchment	DC2					
Groundwater Flooding						
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand			
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding to occur at surface.				
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes				
Other Sources						

ı	Risk of flooding from	The Long Term Flood Risk Map shows that the site is not at risk of flooding, in the event of a breach or
ı	reservoirs	failure of a reservoir.

Site WT13 B & Q, Smugglers Way, SW18

Summary

40% of the site is defined as Flood Zone 1, Low probability of flooding from rivers or the sea; 43% of the site is defined as Flood Zone 2 Medium probability of flooding, and 17% Flood Zone 3 High probability. The site is located 160m south of the tidal River Thames and is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Significant ('danger for most') on the site, and up to 2.5-3m depth, Extreme hazard rating on parts of Swandon Way ('danger for all') for the year 2100. Flood levels on the site are ~5.73m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Swandon Way located south of the site. 14 incidents of surface water flooding have been reported within 500m of the site, and it is located within a Critical Drainage Area (CDA 016, Trinity Road).

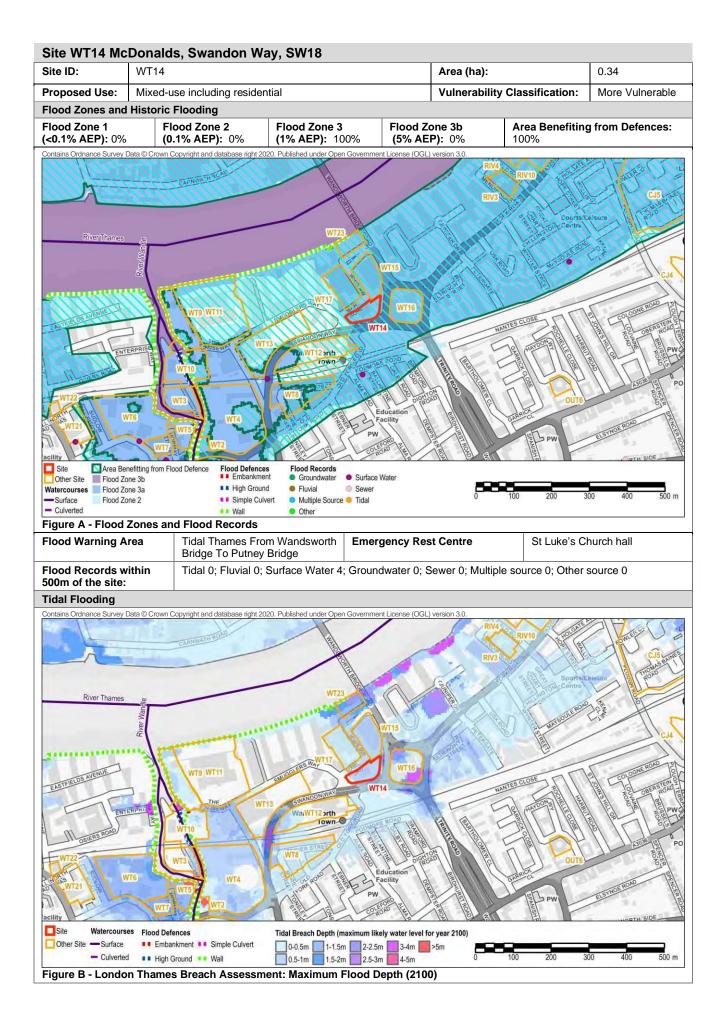
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change. The modelled flood level from the London Thames Breach Assessment in this location is ~5.73m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change².
- The site is located within the Flood Warning Area for the Wandsworth Bridge to Putney Bridge and the River Wandle at Wandsworth. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy
 for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site WT14 McDonalds, Swandon Way, SW18

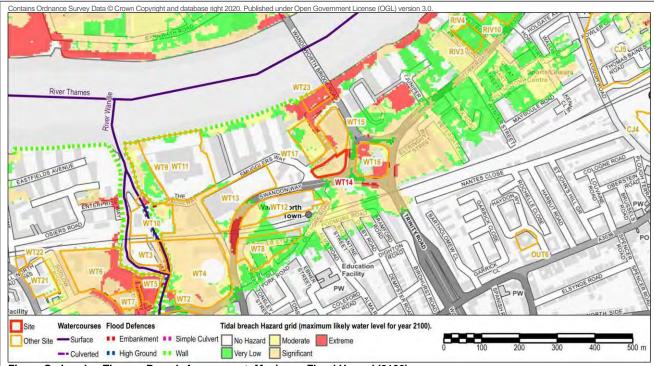


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 River Thames Risk of Flooding from Surface Wate ☐ Site Watercourses Groundwater Surface Water High Probability Other Site - Surface Fluvial Sewer Medium Proabability Multiple Source
 Tidal - Culverted Low Probability Figure D - Risk of Flooding from Surface Water (RoFSW)

rigure b - Nisk of Flooding from Surface Water (Not SW)						
Critical Drainage Area	Group7_016 Trinity Road [Wand	Group7_016 Trinity Road [Wandsworth]				
Drainage Catchment	DC2	DC2				
Groundwater Flooding						
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand			
Susceptibility to Groundwater Flooding (BGS) Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Potential for groundwater flooding to occur at surface.				
		Yes				
Other Sources						

Risk of flooding from reservoirsThe Long Term Flood Risk Map shows that the site is not at risk of flooding, in the event of a breach or failure of a reservoir.

Site WT14 McDonalds, Swandon Way, SW18

Summary

The site is defined as Flood Zone 3a High probability of flooding. The site is located 200m south of the tidal River Thames and is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Significant ('danger for most') on the site, and up to 0.5-1m depth, Significant hazard rating on parts of Swandon Way ('danger for most') for the year 2100. Flood levels on the site are ~5.73m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond at the east and southern parts of the site, and also on Swandon Way. 4 incidents of surface water flooding have been reported within 500m of the site, and it is located within a Critical Drainage Area (CDA 016, Trinity Road).

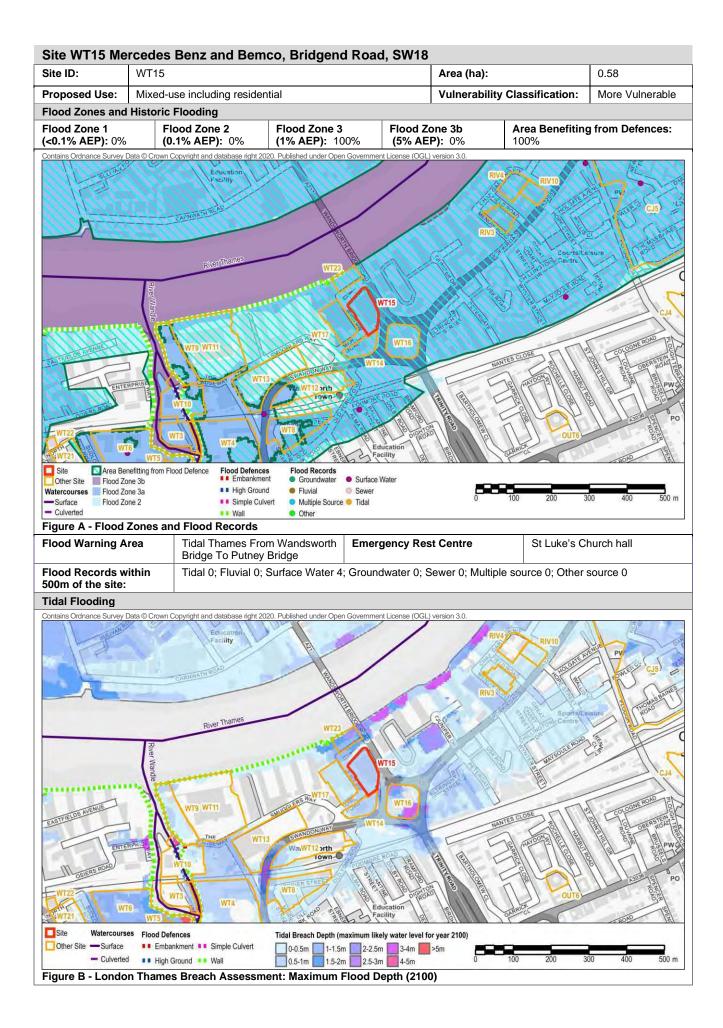
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.73m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site WT15 Mercedes Benz and Bemco, Bridgend Road, SW18

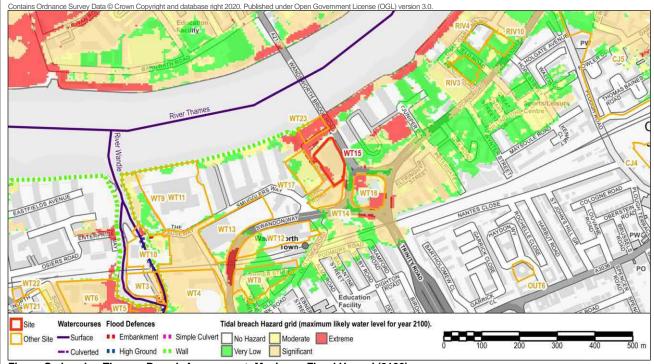


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

reservoirs

Risk of Flooding from Surface Water (RoFSW) Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0. Other Risk of Flooding from Surface Wate ☐ Site Groundwater Surface Water High Probability Other Site - Surface Fluvial Sewer Medium Proabability Multiple Source
 Tidal Low Probability Culverted Figure D - Risk of Flooding from Surface Water (RoFSW)

Low

<u> </u>						
Critical Drainage Area	Group7_016 Trinity Road [Wand	Group7_016 Trinity Road [Wandsworth]				
Drainage Catchment	DC2	DC2				
Groundwater Flooding						
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand			
Susceptibility to Groundwater Flooding (BGS)		Potential for groundwater flooding of property situated below ground level. Potential for groundwater flooding to occur at surface.				
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes				
Other Sources						
Risk of flooding from	,	Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or				

failure of a reservoir. (It is not possible to determine which reservoir).

Site WT15 Mercedes Benz and Bemco, Bridgend Road, SW18

Summary

The site is defined as Flood Zone 3a High probability of flooding. The site is located 80m south of the tidal River Thames and is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Extreme ('danger for most') on the site, and up to 1-1.5m depth, Extreme hazard rating on Jews Row ('danger for most') for the year 2100. Flood levels on the site are ~5.74-5.77m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond to the north and south of the site, and also on Jews Row and Bridgend Road. 4 incidents of surface water flooding have been reported within 500m of the site, and it is located within a Critical Drainage Area (CDA 016, Trinity Road).

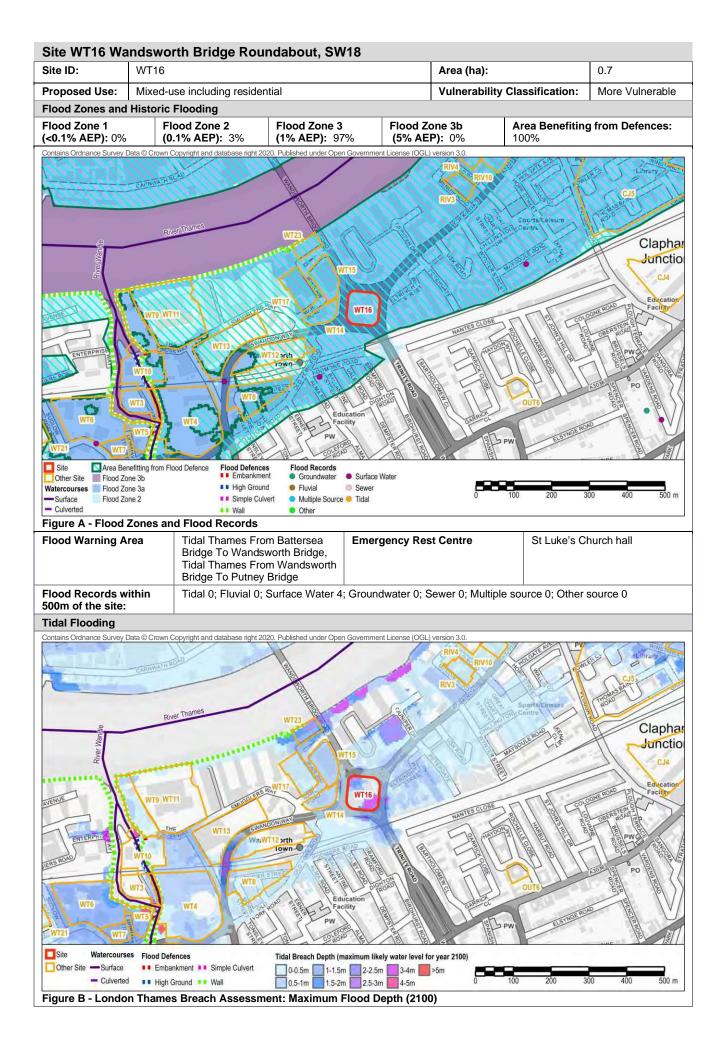
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface and also susceptible to groundwater below ground level.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.77m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants
 of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site WT16 Wandsworth Bridge Roundabout, SW18 Claphar Junctio Site Tidal breach Hazard grid (maximum likely water level for year 2100). -- Culverted • High Ground • Wall Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **Surface Water Flooding** Risk of Flooding from Surface Water (RoFSW) Low, Medium, High Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0 Claphar Junctio

LWT21 WT7			000 000 E		SPANIS	5 PW	ELS	4,1	RROAD	ASI !
	Flood Records	Other	Risk of Flooding from Su	rface Water	-	-1-			ine	Mail Ma
Site Watercourses	Groundwater	Surface Water	High Probability		-	_		_		_
Other Site - Surface	Fluvial	Sewer	Medium Proabability		0	100	200	300	400	500 m
 Culverted 	 Multiple Source 	Tidal	Low Probability			.00	200	000		000 111
Figure D - Risk of Flooding from Surface Water (RoFSW)										
Critical Drainage A	Group7_016	Group7_016 Trinity Road [Wandsworth]								
Drainage Catchment DC2										
Groundwater Flood	ling									
		Thames Group - Clay, Silt, Sand and Gravel		Superficial Geology		Clay, Silt and Sand				
Susceptibility to Groundwater Flooding (BGS)			Potential for groundwater flooding to occur at surface.							
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes								
Other Sources										

failure of a reservoir. (It is not possible to determine which reservoir).

Risk of flooding from

reservoirs

The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or

Site WT16 Wandsworth Bridge Roundabout, SW18

Summary

The majority of the site (97%) is defined as Flood Zone 3a High probability of flooding. The site is located 180m south of the tidal River Thames and is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 3-4m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and up to 1.5-2m depth, Extreme hazard rating on the surrounding roads at the roundabout ('danger for all') for the year 2100. Flood levels across the majority of the site are ~5.18m AOD and ~5.70m AOD¹ on Swandon Way.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the roundabout. 4 incidents of surface water flooding have been reported within 500m of the site, and it is located within a Critical Drainage Area (CDA 016, Trinity Road).

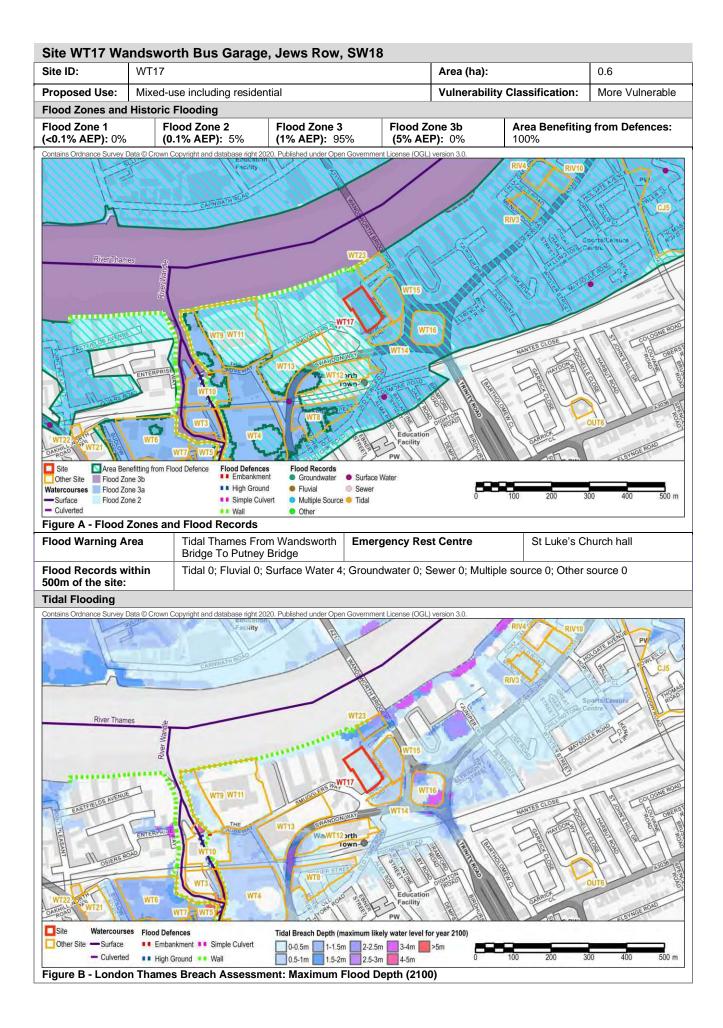
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.18m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge, Tidal
 Thames From Wandsworth Bridge To Putney Bridge. Occupants of the site should sign up to receive the Flood Warning
 Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site WT17 Wandsworth Bus Garage, Jews Row, SW18

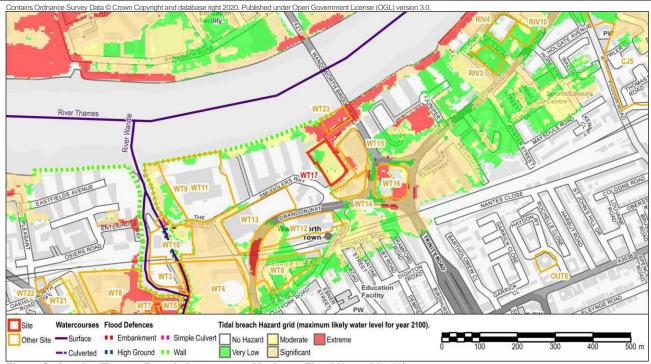


Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100)

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW)

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Flood Records Other	Risk of Flooding from Surface Water	120	ELSYN.
Site Watercourses Groundwater Surface Water	High Probability		
Other Site — Surface Fluvial Sewer	Medium Proabability	0 100 200	300 400 500 m
 Culverted Multiple Source Tidal 	Low Probability	0 100 200	300 400 300 III
Figure D - Risk of Flooding from Surface Water	(RoFSW)		
	Trinity Pood [Wandsworth]		

Low

J	, ,			
Critical Drainage Area	Group7_016 Trinity Road [Wand	Group7_016 Trinity Road [Wandsworth]		
Drainage Catchment	DC2	DC2		
Groundwater Flooding	·			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology Clay, Silt and Sand		
Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding ground level. Potential for ground surface.				
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				

Risk of flooding from reservoirs

The Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site WT17 Wandsworth Bus Garage, Jews Row, SW18

Summary

The majority of the site (95%) is defined as Flood Zone 3a High probability of flooding. The site is located 70m south of the tidal River Thames and is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream.

The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate the site to a depth of 0.5-1m, with a corresponding hazard rating of Extreme ('danger for all') on the site, and up to 1-1.5m depth, Extreme hazard rating on Jews Row ('danger for most') for the year 2100. Flood levels in this area are ~5.75m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Jews Road and Marl Road located adjacent to the site. 4 incidents of surface water flooding have been reported within 500m of the site, and it is located within a Critical Drainage Area (CDA 016, Trinity Road).

There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater at the surface and also susceptible to groundwater below ground level.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change². The modelled flood level from the London Thames Breach Assessment in this location is ~5.75m AOD¹.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change.
- The site is located within the Flood Warning Area for the Tidal Thames From Wandsworth Bridge To Putney Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact <u>kslenquiries@environment-agency.gov.uk</u>

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances

Site WT18 65-71 Wandsworth High Street incl. Spread Eagle Public House; Wandsworth High Street and 5 Garratt Lane, SW18

 Site ID:
 WT18
 Area (ha):
 0.14

 Proposed Use:
 Mixed-use including residential
 Vulnerability Classification:
 More Vulnerable

Flood Zones and Historic Flooding

Flood Zone 1 | Flood Zone 2 | Flood Zone 3 | Flood Zone 3 | G.1% AEP): 16% | Flood Zone 3b | Area Benefiting from Defences: 34% | G.1% AEP): 16% | G.5% AEP): 0% | 34% | G.5% AEP): 0% | G.5% AEP]: 0% | G.5%

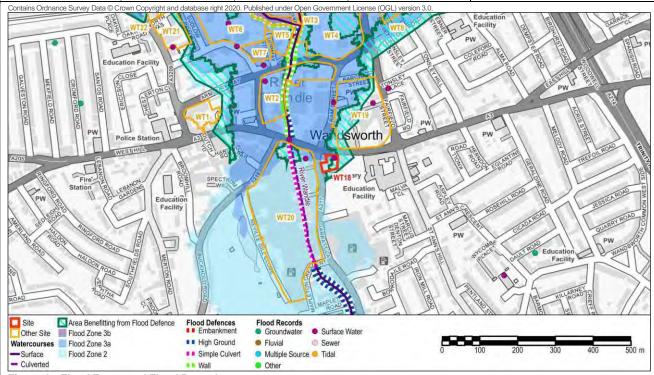
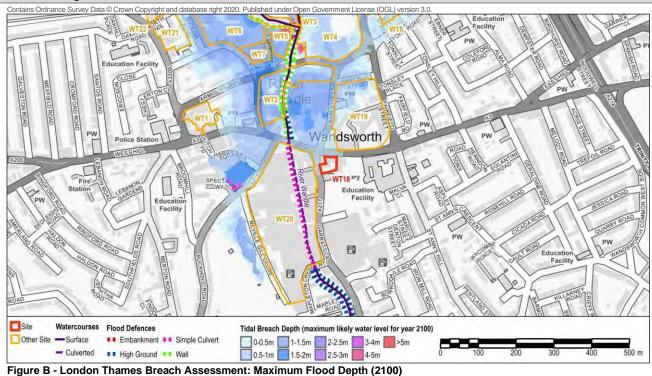


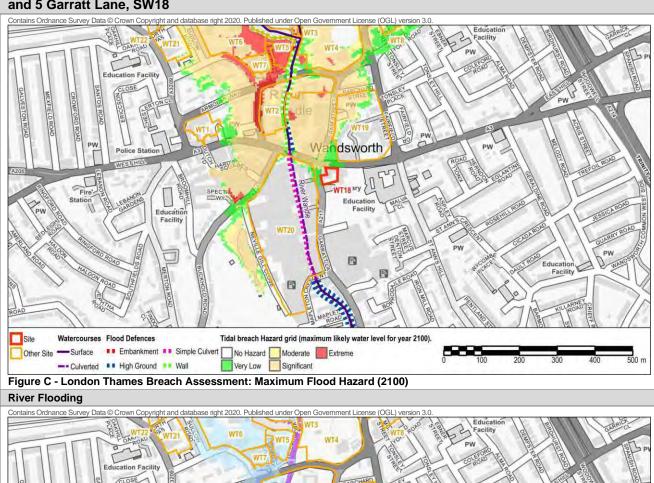
Figure A - Flood Zones and Flood Records

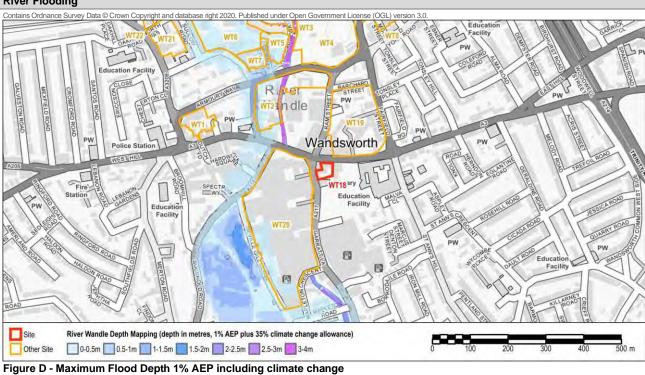
Flood Warning Area	River Wandle At Wandsworth, Tidal Thames From Wandsworth Bridge To Putney Bridge	Emergency Rest Centre	St Luke's Church hall
Flood Records within 500m of the site:	Tidal 0; Fluvial 0; Surface Water 12	2; Groundwater 0; Sewer 0; Multiple so	ource 0; Other source 0

Tidal Flooding



Site WT18 65-71 Wandsworth High Street incl. Spread Eagle Public House; Wandsworth High Street and 5 Garratt Lane, SW18





Site WT18 65-71 Wandsworth High Street incl. Spread Eagle Public House; Wandsworth High Street and 5 Garratt Lane, SW18

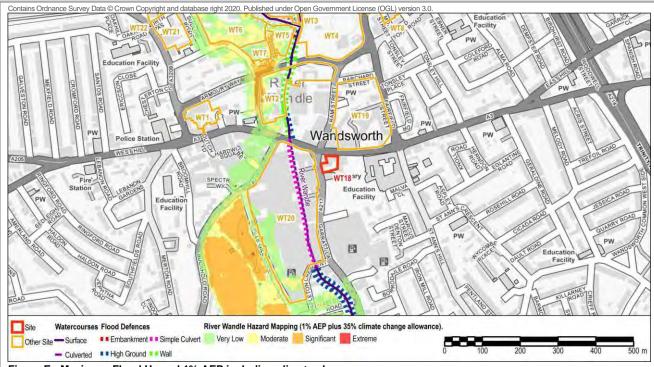


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low ndsworth Risk of Flooding from Surface Site High Probability Watercourses Groundwater Surface Water Other Site - Surface Sewer Multiple Source
 Tidal Low Probability - Culverted

Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None			
Drainage Catchment	DC7	DC7		
Groundwater Flooding	Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand, Sand and Gravel	
Susceptibility to Groundwater F	Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.			
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)				
Other Sources				

Risk of flooding from The Long Term Flood Risk Map shows that the site is not at risk of flooding, in the event of a breach or reservoirs failure of a reservoir.

Site WT18 65-71 Wandsworth High Street incl. Spread Eagle Public House; Wandsworth High Street and 5 Garratt Lane, SW18

Summary

The River Wandle is located approximately 100m west to the site. The majority of the site (84%) is defined as Flood Zone 2 Medium probability of flooding, and the remainder of the site (16%) is defined as Flood Zone 3a, High probability of flooding.

The site is not shown to be at risk of flooding from the River Wandle.

The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The site is not modelled to be residual risk of tidal flooding during a breach in the Thames tidal defences, however flood water would inundate Wandsworth High Street and Garratt Lane located adjacent to the site to a depth of 0.5m, with a corresponding hazard rating of Moderate ('danger for some'). Flood levels in this area are ~5.75m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on Wandsworth High Street and Garratt Lane located adjacent to the site. There are 12 reported incidents of surface water flooding within 500m of the site.

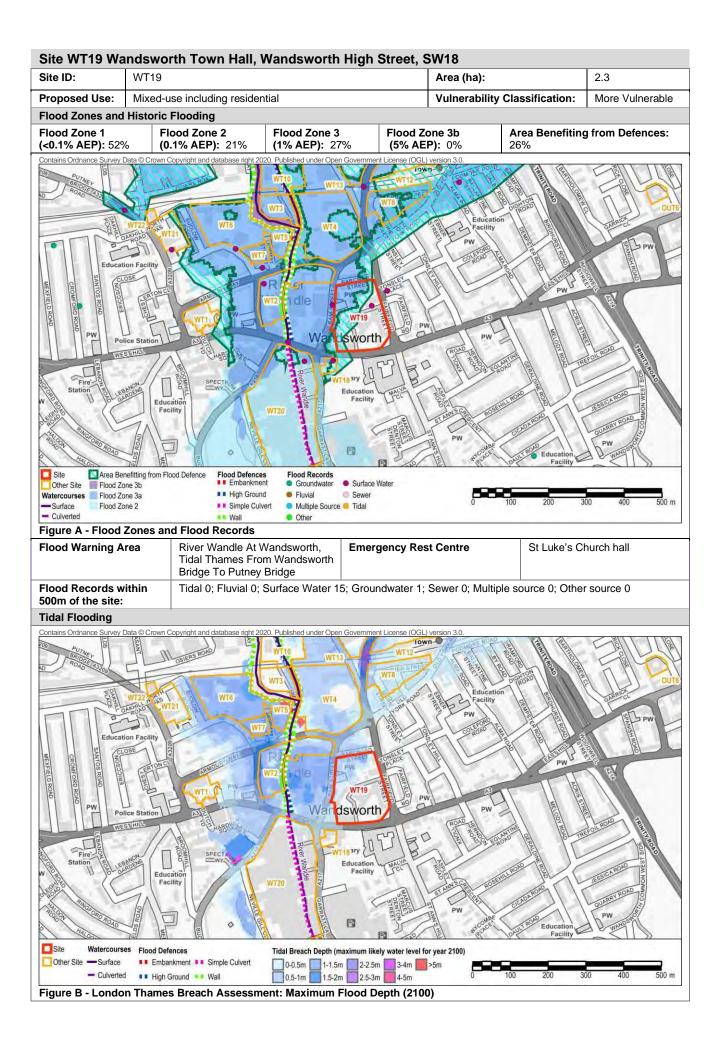
There are no groundwater flooding records in this area. Broadscale mapping suggests that the local area may be susceptible to groundwater flooding at the surface.

Site Specific Recommendations

- Finished floor levels for sleeping accommodation should be set above the extreme water level including an allowance for climate change. The modelled flood level from the London Thames Breach Assessment in this location is ~5.75m AOD¹ (for the year 2100).
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change².
- The site is located within the Flood Warning Area for River Wandle At Wandsworth, Tidal Thames From Wandsworth Bridge
 To Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



Site WT19 Wandsworth Town Hall, Wandsworth High Street, SW18 dsworth Watercourses Flood Defences Tidal breach Hazard grid (maximum likely water level for year 2100). Site Surface Surfac -- Culverted •• High Ground •• Wall Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **River Flooding** River wī₂an dle Wandsworth River Wandle Depth Mapping (depth in metres, 1% AEP plus 35% climate change allowance) Site 0-0.5m 0.5-1m 1-1.5m 1.5-2m 2-2.5m 2.5-3m 3-4m

Figure D - Maximum Flood Depth 1% AEP including climate change

Site WT19 Wandsworth Town Hall, Wandsworth High Street, SW18

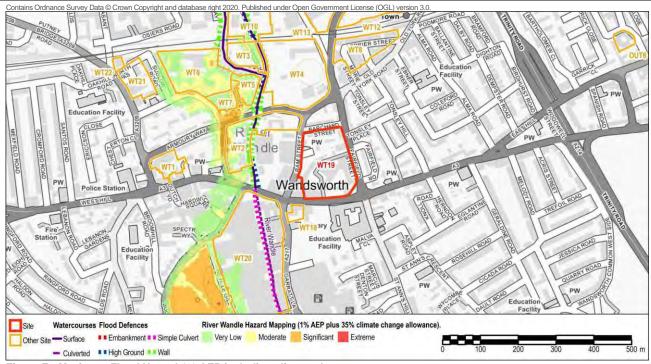


Figure E - Maximum Flood Hazard 1% AEP including climate change

failure of a reservoir.

Surface Water Flooding

Risk of flooding from

reservoirs

Risk of Flooding from Surface Water (RoFSW) Low, Medium, High ndswort Risk of Flooding from Surface ☐ Site High Probability Watercourses Groundwater Surface Water Other Site - Surface Sewer Medium Proabability Multiple Source
 Tidal Low Probability Culverted Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None			
Drainage Catchment	DC7			
Groundwater Flooding	Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand, Sand and Gravel	
Susceptibility to Groundwater	Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.			
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes		
Other Sources				

The Long Term Flood Risk Map shows that the site is not at risk of flooding, in the event of a breach or

Site WT19 Wandsworth Town Hall, Wandsworth High Street, SW18

Summary

The River Wandle flows north approximately 120m west to the site. The majority of the site (52%) is defined as Flood Zone 1 Low probability of flooding, and the remainder of the site are defined as Flood Zone 2 Medium probability flooding (21%) and Flood Zone 3 High probability flooding (27%).

The site is not shown to be at risk of flooding from the River Wandle during the 1% AEP event including 35% allowance for climate change. During the 1% AEP event including 70% allowance for climate change, flooding extends to Ram Street to the west of the site, with flood levels of ~5.07m AOD1.

The River Wandle meets the tidal River Thames approximately 530m north of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Flood water would inundate part of the site to a depth of 1.5-2.0m, with a corresponding hazard rating of Significant ('danger for most') on the site, and 1.5-2.0m depth, Significant hazard rating on Barchard Street and Ram Street ('danger for most') for the year 2100. Flood levels on the site are ~5.52-5.77m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site, and also on Barchard Street and Ram Street adjacent to the site. 15 reported incidents of surface water flooding within 500m of the site.

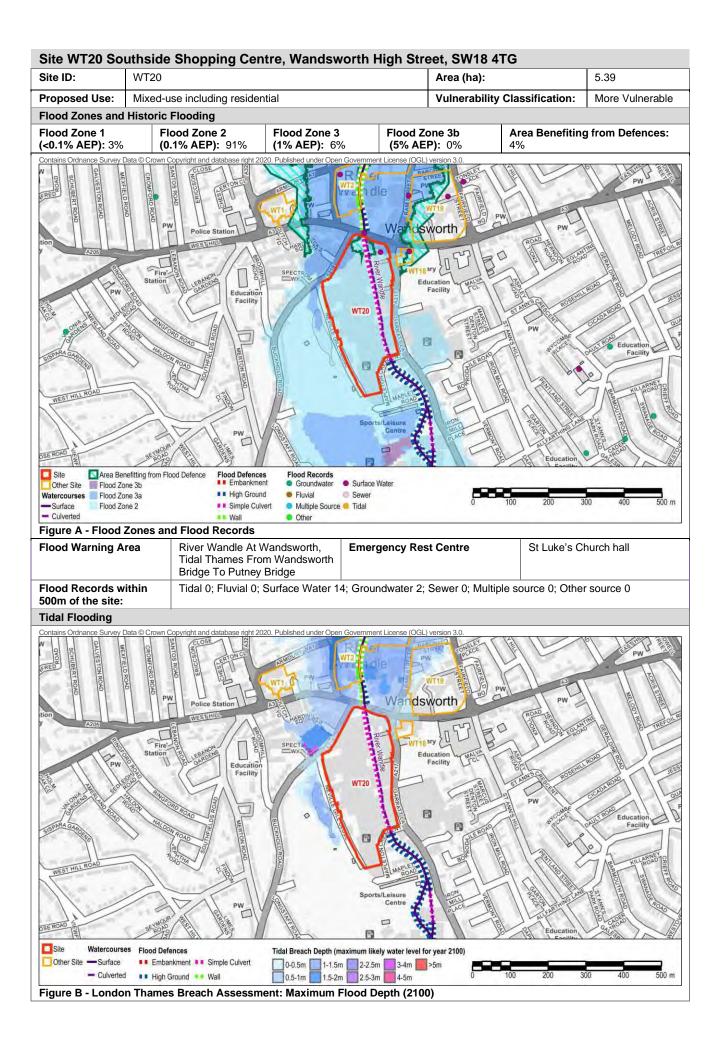
There is 1 reported incident of groundwater flooding within 500m of the site.

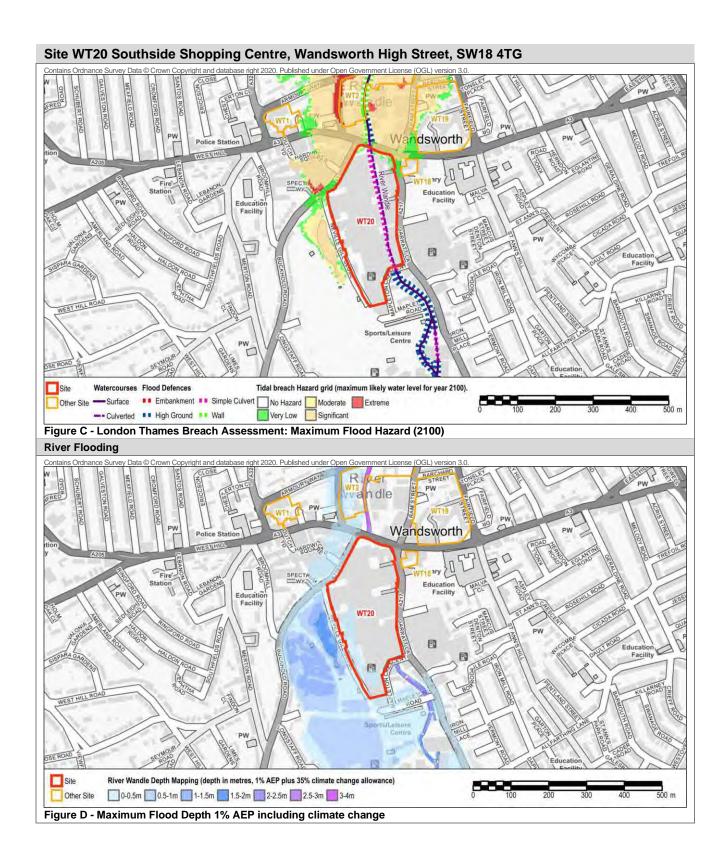
Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- Sleeping accommodation should be set above the extreme tidal flood level including an allowance for climate change² (5.52-5.77m AOD¹ for the year 2100).
- In the event of a breach in the flood defences, dry access/egress is likely to be possible along the Fairfield Street to the east
 of the site. In line with the requirements for sleeping accommodation, safe refuge should also be provided above the extreme
 water level including an allowance for climate change (5.52-5.77m AOD).
- The site is located within the Flood Warning Area for River Wandle At Wandsworth, Tidal Thames From Wandsworth Bridge To Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances





Site WT20 Southside Shopping Centre, Wandsworth High Street, SW18 4TG

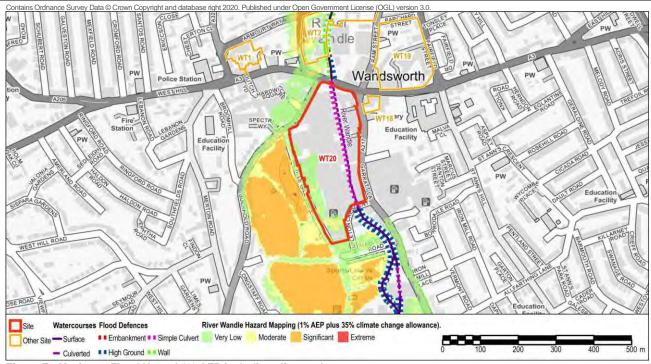


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium, High Wandsworth Risk of Flooding from Surface Water Site Groundwater Surface Water High Probability Other Site - Surface Sewer Medium Proabability Multiple Source
 Tidal Low Probability - Culverted

Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	Group7_015 King Georges Park [Wandsworth]		
Drainage Catchment	DC6, DC7		
Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand, Sand and Gravel
Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surfa		ng to occur at surface.	
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes	
Other Sources			

Other Sources

Risk of flooding from	The Long Term Flood Risk Map shows that the western fringe of this site could be at risk of flooding, in the
reservoirs	event of a breach of the Wimbledon Park Lake.

Site WT20 Southside Shopping Centre, Wandsworth High Street, SW18 4TG

Summary

The River Wandle is culverted beneath the site. The majority of the site (91%) is defined as Flood Zone 2 Medium probability of flooding from rivers or the sea, with a small area of Flood Zone 3 High probability (6%).

The site is shown to be at risk of flooding from the River Wandle. During the modelled 1% AEP event including 35%, climate change, 17% of the site, on the western edge, is at risk of flooding. Flood depths reach 0.5m and the hazard rating on the site is Moderate, which presents a 'danger for some'. Flood levels range from 5.0-5.94m AOD on the site. During the 1% AEP event including 70% allowance for climate change, the extent of flooding covers more of the site and flood levels are ~5.3-6.39m AOD1.

The River Wandle meets the tidal River Thames approximately 800m north of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that in the event of a breach in the Thames tidal defences, floodwater does not extend to reach the site. However, land immediately to the north of the site including the A218 and Wandsworth High Street is shown to be at residual risk of tidal flooding, with a corresponding hazard rating of Significant ('danger for most') for the year 2100. Flood levels along Wandsworth High Street and Buckhold Road are ~5.77m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond on the roads around the edge of the site. There are records of surface water flooding in proximity to the site and it is located within a Critical Drainage Area (CDA 15 King Georges Park). There are 14 reported incidents of surface water flooding within 500m of the site.

There are 2 reported incidents of groundwater flooding within 500m of the site. Broadscale mapping suggests there may be potential for groundwater flooding to occur at surface in this area.

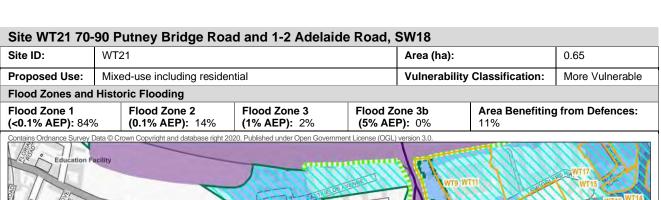
Site Specific Recommendations

The River Wandle is culverted in this location. As part of any potential redevelopment of the site Wandsworth Council encourages deculverting of the River Wandle to realise benefits for the local community and environment.

- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change (5.0-5.94m AOD). Sleeping accommodation should be set above the tidal extreme water level including an allowance for climate change² (5.77m AOD¹).
- The proposed development must not reduce the ability of the floodplain to store water. This should be considered in relation to the 1% AEP modelled flood event including an appropriate allowance for climate change². Floodplain compensation storage must be provided on a level-for-level and volume-for-volume basis. Further guidance on the provision of compensatory flood storage is provided in section A3.3.10 of the CIRIA document C624.
- In the event of a breach in the flood defences, dry access/egress may not be possible. In line with the requirements for sleeping accommodation, safe refuge should be provided above the extreme water level including an allowance for climate change and above the 1% AEP flood level for the River Wandle including climate change, whichever is higher.
- The site is located within the Flood Warning Area for the Tidal Thames From Battersea Bridge To Wandsworth Bridge.
 Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenguiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



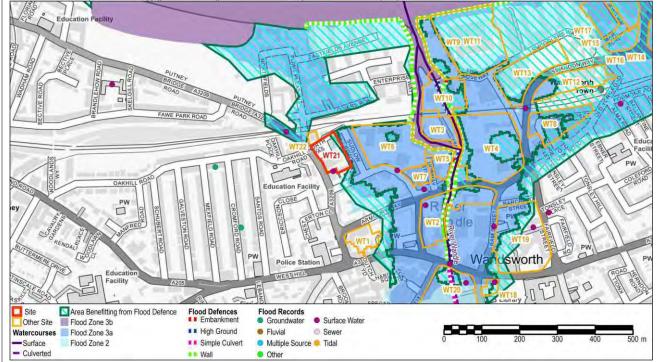


Figure A - Flood Zones and Flood Records

Flood Warning Area	Tidal Thames From Wandsworth Bridge To Putney Bridge	Emergency Rest Centre	St Luke's Church hall
Flood Records within 500m of the site:	Tidal 0; Fluvial 0; Surface Water 1	1; Groundwater 2; Sewer 0; Multiple so	ource 0; Other source 0



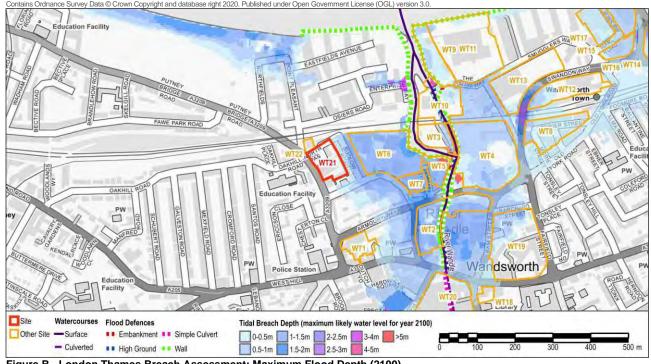


Figure B - London Thames Breach Assessment: Maximum Flood Depth (2100)

Site WT21 70-90 Putney Bridge Road and 1-2 Adelaide Road, SW18 andsworth Tidal breach Hazard grid (maximum likely water level for year 2100). Surface Embankment Simple Culvert No Hazard Moderate Extreme -- Culverted •• High Ground •• Wall Very Low Significant Figure C - London Thames Breach Assessment: Maximum Flood Hazard (2100) **River Flooding** nce Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3.0. wīzan dle Wandsworth River Wandle Depth Mapping (depth in metres, 1% AEP plus 35% climate change allowance) Site 0-0.5m 0.5-1m 1-1.5m 1.5-2m 2-2.5m 2.5-3m 3-4m

Figure D - Maximum Flood Depth 1% AEP including climate change

Site WT21 70-90 Putney Bridge Road and 1-2 Adelaide Road, SW18

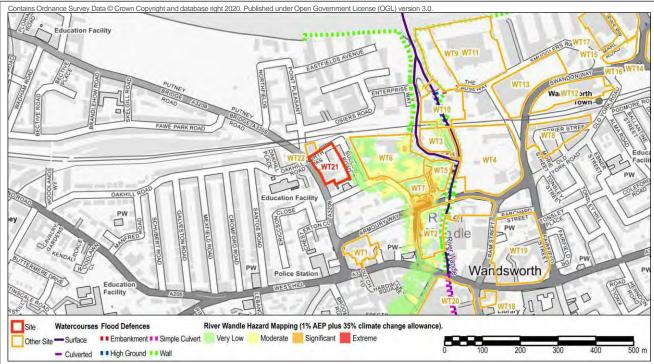


Figure E - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low Wandsworth Flood Records Risk of Flooding from Surface Water Site Surface Water Watercourses Groundwater High Probability Other Site - Surface Sewer Medium Proabability Multiple Source
 Tidal Low Probability - Culverted Figure F - Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	None		
Drainage Catchment	DC6		
Groundwater Flooding			
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand
Susceptibility to Groundwater F	Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.		
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)		Yes	
Other Sources			

Other Sources

Risk of flooding from	The Long Term Flood Risk Map shows that the site is not at risk of flooding, in the event of a breach or
reservoirs	failure of a reservoir.

Site WT21 70-90 Putney Bridge Road and 1-2 Adelaide Road, SW18

Summary

The River Wandle is located 280m east to the site. The majority of the site (84%) is defined as Flood Zone 1 Low probability of flooding, and small parts of the site are defined as Flood Zone 2 Medium probability flooding (14%) and Flood Zone 3 High probability flooding (2%).

Modelling shows that the site is not at risk of flooding from the River Wandle during the 1% AEP event including 35% allowance for climate change. During the 1% AEP event including 70% allowance for climate change, flooding extends west to the edge of the site boundary along Sudlow Road, with flood levels of ~5.80m AOD1.

The River Wandle meets the tidal River Thames approximately 280m north of the site. The site is protected from tidal flooding from the River Thames by the presence of the raised flood defences along the Thames and the Thames Barrier further downstream. The results from the London Thames Breach Assessment show that the edge of the site is at residual risk of tidal flooding during a breach in the Thames tidal defences. Floodwater would reach the south eastern portion of the site to a depth of 0.5m, with a corresponding hazard rating of Moderate ('danger for some') on the site, and 1.0-1.5m depth, Significant hazard rating on Sudlow Road ('danger for most') for the year 2100. Flood levels range from ~5.64-5.77m AOD¹ for the year 2100.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site, and also on Sudlow Road and Frogmore adjacent to the site. There are 11 reported incidents of surface water flooding within 500m of the site.

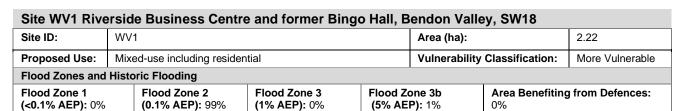
There are 2 reported incidents of groundwater flooding within 500m of the site.

Site Specific Recommendations

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- Sleeping accommodation should be set above the extreme tidal flood level including an allowance for climate change (5.64-5.77m AOD¹ for the year 2100).
- In the event of a breach in the flood defences, dry access/egress is likely to be possible to the west of the site along Putney Bridge Road. In line with the requirements for sleeping accommodation, safe refuge should also be provided above the extreme water level including an allowance for climate change² (5.64-5.77m AOD¹).
- The site is located within the Flood Warning Area for Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- A Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will
 take before, during and after a flood event to ensure their safety, and to demonstrate their development will not impact on the
 ability of the local authority and the emergency services to safeguard the current population.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances



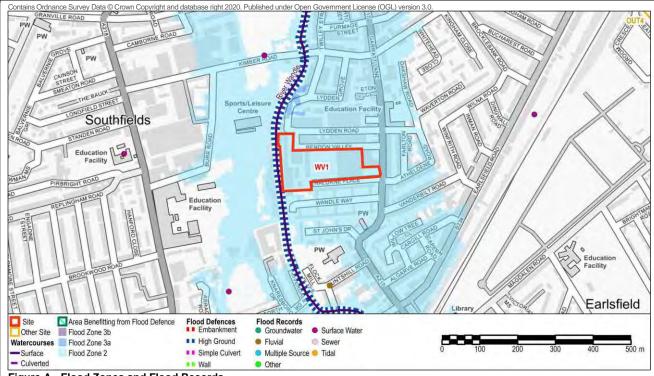
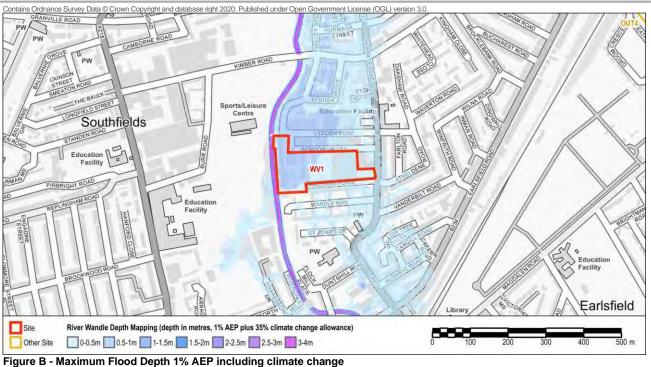


Figure A - Flood Zones and Flood Records

Flood Warning Area	River Wandle At Wandsworth	Emergency Rest Centre	St Luke's Church hall
Flood Records within 500m of the site:	Tidal 0; Fluvial 1; Surface Water 5	; Groundwater 1; Sewer 0; Multiple so	urce 0; Other source 0

River Flooding



Site WV1 Riverside Business Centre and former Bingo Hall, Bendon Valley, SW18

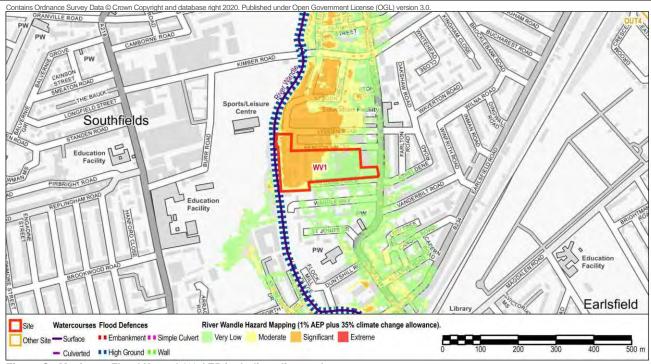


Figure C - Maximum Flood Hazard 1% AEP including climate change

Surface Water Flooding

Risk of Flooding from Surface Water (RoFSW) Low, Medium, High Contains Ordnance Survey Data © Crown Copyright and database right 2020. Published under Open Government License (OGL) version 3. orts/Leisure Southfield Earlsfield Risk of Flooding from Surface Wat ☐ Site Watercourses Groundwater Surface Water High Probability Other Site-- Surface Fluvial Medium Proabability Multiple Source
 Tidal Culverted Low Probability Figure D - Risk of Flooding from Surface Water (RoFSW)

	(
Critical Drainage Area	Group7_019 Earlsfield [Wandsw	Group7_019 Earlsfield [Wandsworth]		
Drainage Catchment	DC7			
Groundwater Flooding				
Bedrock Geology	Thames Group - Clay, Silt, Sand and Gravel	Superficial Geology	Clay, Silt and Sand, Sand and Gravel	
Susceptibility to Groundwater F	Susceptibility to Groundwater Flooding (BGS) Potential for groundwater flooding to occur at surface.			
Within an area with 'increased potential for elevated groundwater', as identified in the SWMP (GLA 2011)				
Other Sources				

Risk of flooding from reservoirsThe Long Term Flood Risk Map shows that the site could be at risk of flooding, in the event of a breach or failure of a reservoir. (It is not possible to determine which reservoir).

Site WV1 Riverside Business Centre and former Bingo Hall, Bendon Valley, SW18

Summary

The River Wandle flows north along the western edge of the site. 99% of site is defined as Flood Zone 2 Medium probability of flooding, and 1% as Flood Zone 3b Functional Floodplain.

Modelling shows that the site is at risk of flooding from the River Wandle. During the modelled 1% AEP event including 35% allowance for climate change, 97% of the site is at risk of flooding. The depth mapping indicates flood water would inundate the site to a depth of 0.5-1.0m, with a corresponding hazard rating of Significant ('danger for most'). Flood levels in this area for the 1% AEP event including 35% climate change allowance are ~7.91-8.40m AOD¹. For the 1% AEP event including 70% allowance for climate change this increases to ~8.25-8.48m AOD¹.

The Risk of Flooding from Surface Water mapping identifies the potential for surface water to flow and pond within the site boundary, and also on Brendon Valley and Haldane Place north and south of the site respectively. There are 5 reported incidents of surface water flooding within 500m of the site, and it is located within a Critical Drainage Area (CDA 019 Earlsfield).

There is 1 reported incident of groundwater flooding within 500m of the site.

Site Specific Recommendations

The proposed use for the site includes residential uses which are defined as More Vulnerable. More Vulnerable development is permitted in Flood Zone 2 and the Exception Test is not required. However, modelling shows that in the future the site is at risk of flooding from the River Wandle during the 1% flood event including 35% allowance for climate change. It is therefore prudent to consider how the Exception Test can be satisfied i.e. (1) that the proposed development will provide wider sustainability benefits to the community that outweigh flood risk, and (2) that it will be safe for its lifetime, without increasing flood risk elsewhere and where possible reduce flood risk overall. In order to satisfy the requirements of the Exception Test, the following recommendations are made:

- A sequential approach should be applied within the site, steering development towards those areas at lower risk of river and surface water flooding.
- To ensure the structural integrity of the riverbank / flood defence is not impacted by the development and to provide access for inspection and maintenance of the riverbank / flood defence, the proposed development should be set back 8m from the fluvial river.
- Finished floor levels should be set 300mm above the River Wandle 1% AEP flood level including an allowance for climate change. Flood levels in this area for the 1% AEP event including 35% climate change allowance are 7.91-8.40m AOD. For the 1% AEP event including 70% allowance for climate change this increases to 8.25-8.48m AOD¹.
- The access/egress routes for the site are also shown to be at risk of flooding during the 1% AEP event including 35% climate change allowance with depths up to 0.5m. A place of safe refuge should be provided within the proposed development above the 1% AEP event including 35% allowance for climate change² modelled flood level, and a Flood Warning and Evacuation Plan should be prepared by occupants of the site demonstrating what actions site users will take before, during and after a flood event to ensure their safety, and to demonstrate the development will not impact on the ability of the local authority and the emergency services to safeguard the current population.
- The proposed development must not reduce the ability of the floodplain to store water. This should be considered in relation to the 1% AEP modelled flood event including 35% allowance for climate change. Floodplain compensation storage must be provided on a level-for-level and volume-for-volume basis. Given the entire site is located within the 1% AEP including 35% flood extent, it will not be possible to provide compensation storage within the site itself. Further guidance on the provision of compensatory flood storage is provided in section A3.3.10 of the CIRIA document C624.
- The site is located within the Flood Warning Area for River Wandle at Wandsworth and Tidal Thames from Wandsworth Bridge to Putney Bridge. Occupants of the site should sign up to receive the Flood Warning Service.
- The natural surface water flow patterns on the site should be considered when preparing the surface water drainage strategy
 for the site to ensure that the risk to neighbouring areas is reduced.
- The risk of groundwater flooding and groundwater levels should be further assessed during a Site Investigation.

¹ These flood levels are from the most up to date modelling at the time of the preparation of this Level 2 SFRA. The most up to date modelling flood levels should always be obtained from the Environment Agency to inform future development proposals. Contact kslenquiries@environment-agency.gov.uk

² An appropriate allowance of climate change should be applied in line with the guidance available at https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances