

Site Name: Broadwater Dock West of Winchat Road

Site ID:	T10	Site Address:	Thamesmead	Area (ha):	2.11
Current Use:	Community open space	Proposed Use:	Residential led mixed use development. T10 and T11 to include 615 residential units, 973sqm hotel, 300sqm community and workspace- Broadwater Green Masterplan pre-application	Vulnerability Classification:	Less Vulnerable/More Vulnerable

Tidal Source:

Flood Zone 1 (<0.1% AEP):	Flood Zone 2 (0.1% AEP):	Flood Zone 3 (1% AEP):	Flood Zone 3b (5%AEP):	Area Benefiting from Defences:
23%	77%	74%	0%	100%

Flood Zones and Flood Defences

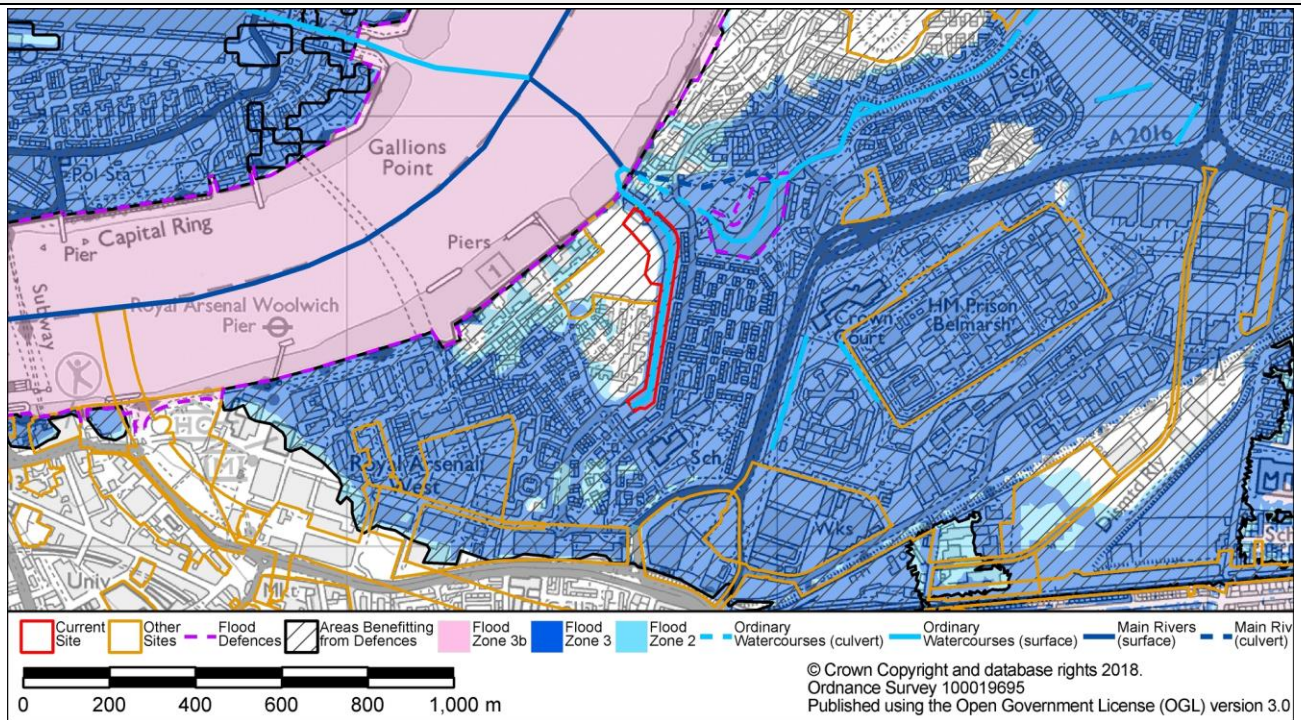
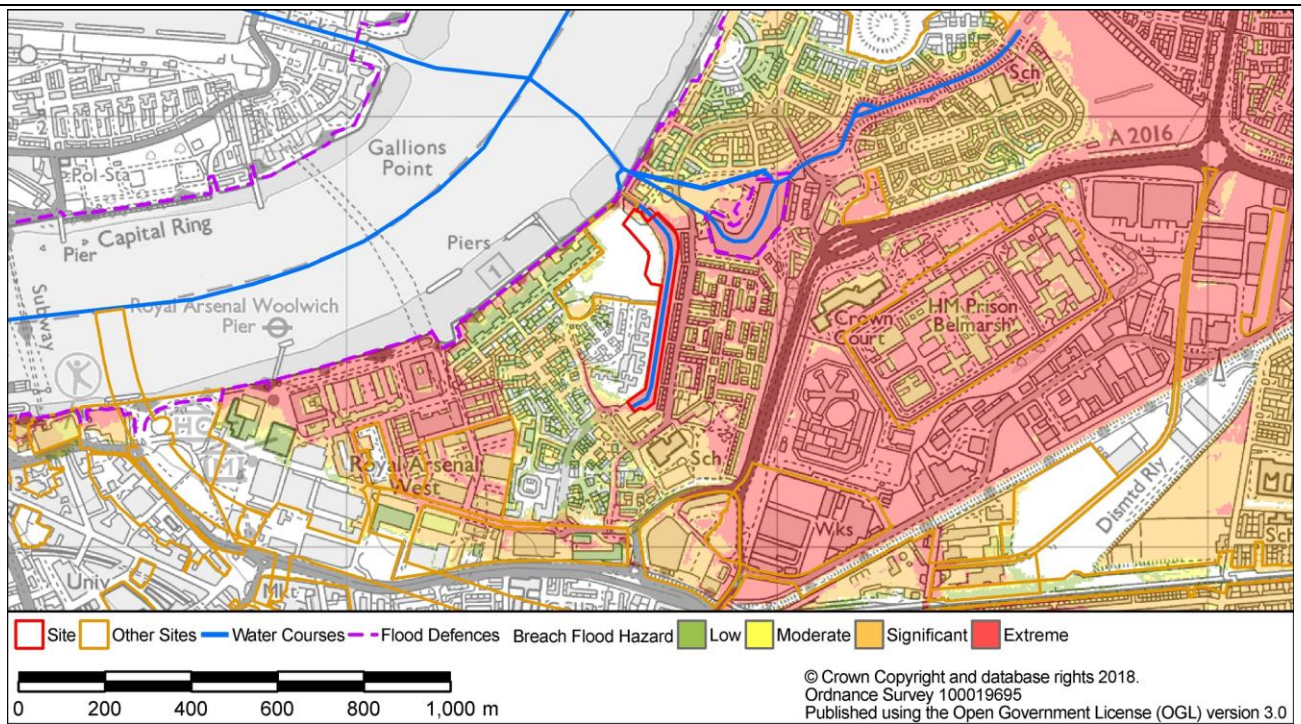
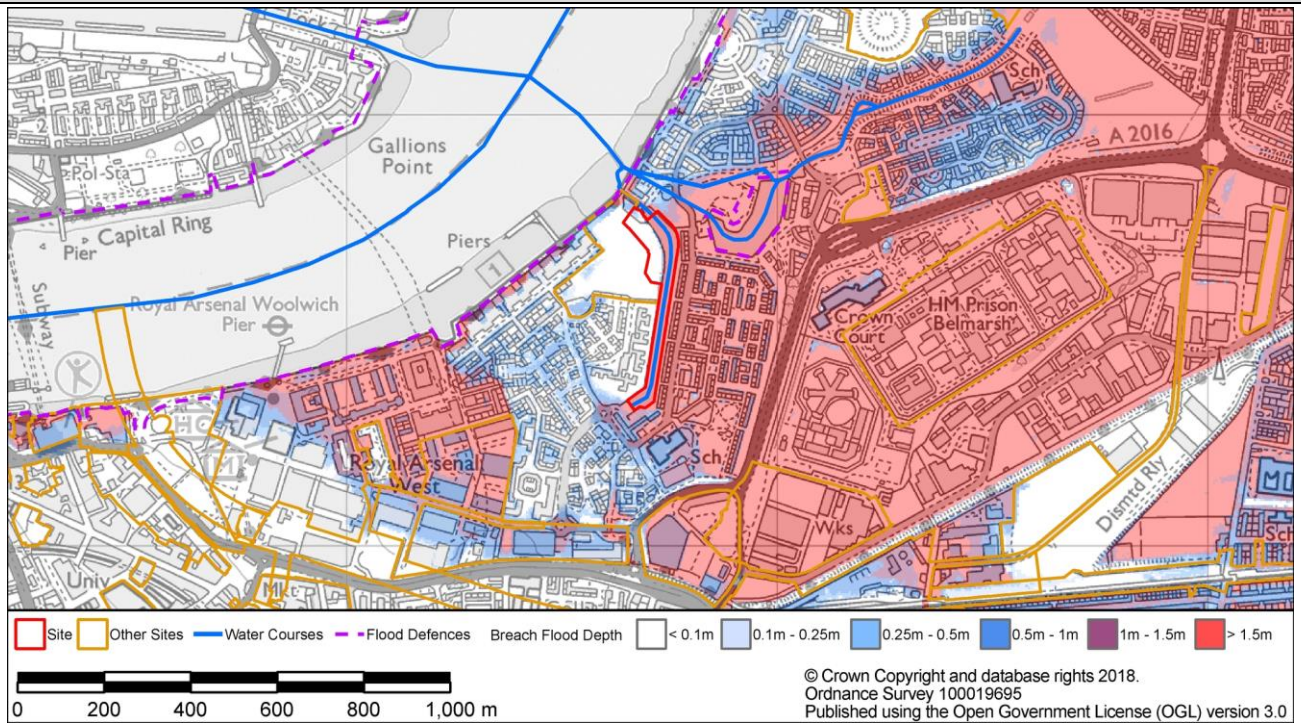


Figure A - Flood Zones

Flood Defence Source:	tidal	Upstream of Thames Barrier?	No
Flood Defence Type:	wall	Standard of Protection:	1000
Flood Warning Area	Tidal Thames from Erith High Street East to Woolwich Arsenal (77% Overlap)	Emergency Rest Centre	Heronsgate Primary School

Residual Tidal Flood Risk

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Surface Water Source

Risk of Flooding from Surface Water (RoFSW)

High

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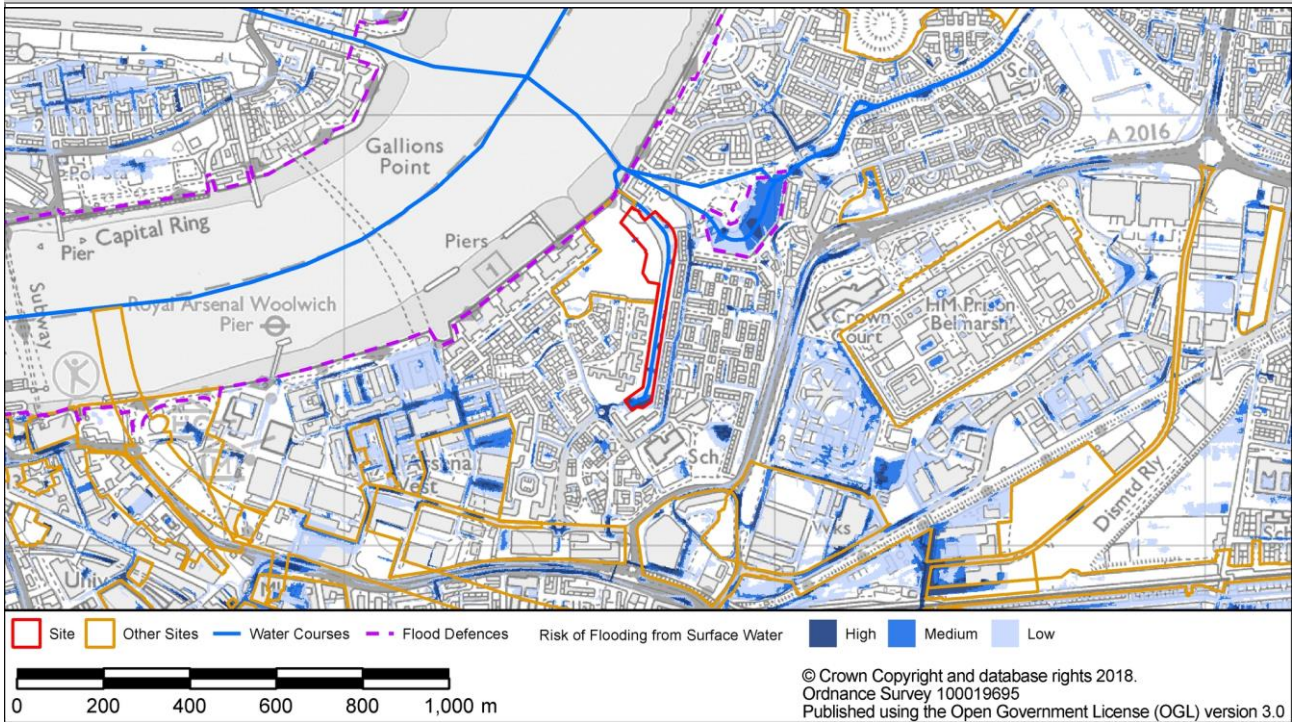


Figure D Risk of Flooding from Surface Water (RoFSW)

Critical Drainage Area	Group6_001 (100% Overlap)		
Groundwater Source			
Bedrock Geology	Thanet Sand Formation	Superficial Geology	Alluvium - Clay, Silty, Peaty, Sandy
Bedrock Aquifer Designation	Secondary A (100% Overlap)	Superficial Aquifer Designation	Secondary (undifferentiated) (100% Overlap)
Potential Groundwater Flooding Zone	Zone A		
Other Sources			
Sewer Flooding (within 4 digit postcode)	Internal Flood Incidents: NoData	External Flood Incidents: NoData	
Artificial sources			

Site Specific Recommendations

The site is predominantly located within Flood Zone 3. The other part of the site is located within Flood Zone 1 and 2. The site is located in an area that benefits from the Flood Wall defences and is at residual risk of tidal flooding. The site is proposed to be mixed use which includes residential, commercial and community open space. More vulnerable development should be located within Flood Zone 1 where possible. If not possible, More Vulnerable uses should be located on the first floor or above, with Less Vulnerable uses at ground level. Basements are not permitted within Flood Zone 3 and are discouraged within areas of Flood Zone 2. The ROFSW map shows that site and surrounding area may be at high risk of surface water flooding. An assessment of the local surface water flow paths should be made during the development of the site design. Buildings and other more vulnerable aspects of the development should be placed away from those areas at risk of surface water ponding. Reference should be made to the Integrated Water Management Strategy for the area.

Finished floor levels should be set at whichever level is higher: 300mm above the general ground level of the site or 600mm above the estimated sea level for a 1 in 200 year (0.5%AEP) event (including climate change). A number of flood resistance and resilience measures can be implemented into new developments to mitigate potential flooding. Guidance on resilience measures can be found in the document 'Improving the Flood Performance of New Buildings, Flood Resilient Construction' published by The Department for Communities and Local Government (CLG).

Potential overland flow paths from surface water should be determined and appropriate solutions proposed to minimise the impact of the development, whilst ensuring that flows are not diverted towards other properties elsewhere. Developers should consider using design for exceedance approaches by using urban areas and infrastructure to help manage local flooding. Flow paths should be assessed to inform the strategic location of SuDS and techniques to route flows around the edge of buildings. Careful consideration should be given to the use of fences and landscaping walls so as to prevent causing obstruction to flow routes.

Unobstructed safe access routes to and from the development should be provided. These should provide access to higher ground that is not at risk from tidal flooding. Safe egress points would be most appropriately located to the north of the site.

Reference to the SWMP Appendix D Figure D6 identifies that (prior to the completion of a site investigation to determine precise local conditions) infiltration of surface water into the ground is uncertain for the site. Site investigations will be required prior to the development of a Drainage Strategy for the site. Development should utilise sustainable urban drainage systems (SuDS) unless there are practical reasons for not doing so. The site is located within the Group6_001 Critical Drainage Area. The potential development must not increase flood risk to other areas within the CDA. Where an increased risk exists, developers need to provide a Drainage Strategy to demonstrate how they intend to address this, by what methods, over what timeframe and how maintenance of such works would be funded over its lifetime. This should include a consideration of SuDS in line with the London Plan 5.13 and Local Plan Policies. Surface water run-off should be managed in line with Royal Greenwich's surface water management requirements, as set out in Chapter 4 of the Developer Guidance.

Site Name: Broadwater Dock West of Winchat Road**Summary**

The site is proposed for mixed use and is located within an area of Flood Zone 2 and 3, defended by the Flood Wall defence. The site has a residual risk of tidal flooding. Tidal flood risk mitigation measures should be implemented into the site design to manage flood risk. It is recommended that effective surface water management measures are implemented, including careful site and building layout and the incorporation of SuDS, in order to reduce flooding both on the site and routing of flood water to other areas. On this basis, it is likely that this site could pass the Exception Test.