		s Avenue				
Site ID:	T7		Site Address:	Thamesmead	Area (ha):	0.75
Current Use:	Gallions housing office, childrens playground, basketball court and wooded area.		Proposed Use:	Could include residential, retail on ground floor if the woodland is protected and the childrens playground and basketball court can be reloctaed in the vicinity.	Vulnerability Classification:	Less Vulnerable/More Vulnerable
Tidal Source:						
		Flood Zone 2 (0.1% AEP): 100%	Flood Zone 3 (1% AEP): 1009	Flood Zone 3b (5%AEP): 0%	Area Benefiting from Defences: 100%	
Flood Zones a	nd Flood	Defences				
Mo	Shopd store	Drig / Coan	Cont. PN			
Current	other Flor	Thames nead	Sept.	Flood Ordinary	Main Rivers Main Riv	Frequency (Section 1987)
Current Site S	other Florites Florites 40	od Areas Benefitting from Defences	Flood Zone 3 Zone 3 T,000 m	Ordnance Sun	Main Rivers Main Ri (curlert)  wey 100019695 g the Open Government	2018.
0 200	40	od Areas Benefitting from Defences		© Crown Copy Ordnance Sun	right and database rights vey 100019695	2018.
	40 d Zones	Areas Benefiting from Defences	00 1,000 m	© Crown Copy Ordnance Sun	right and database rights vey 100019695 ig the Open Government	2018.

Street East to Woolwich Arsenal (100% Overlap)

Residual Tidal Flood Risk

# Site Name: Titmuss Avenue Thames 0.25m - 0.5m © Crown Copyright and database rights 2018. Ordnance Survey 100019695 Published using the Open Government License (OGL) version 3.0 200 400 600 800 1,000 m Figure B - Maximum Flood Depth (Downriver Breach Assessment, 0.5% AEP 2115) Thamesmead Other Sites Water Courses — - Flood Defences Breach Flood Hazard Low Moderate Significant Extreme

Figure C - Maximum Flood Hazard (Downriver Breach Assessment, 0.5% AEP 2115)

800

## **Surface Water Source**

200

Risk of Flooding from Surface Water (RoFSW)

600

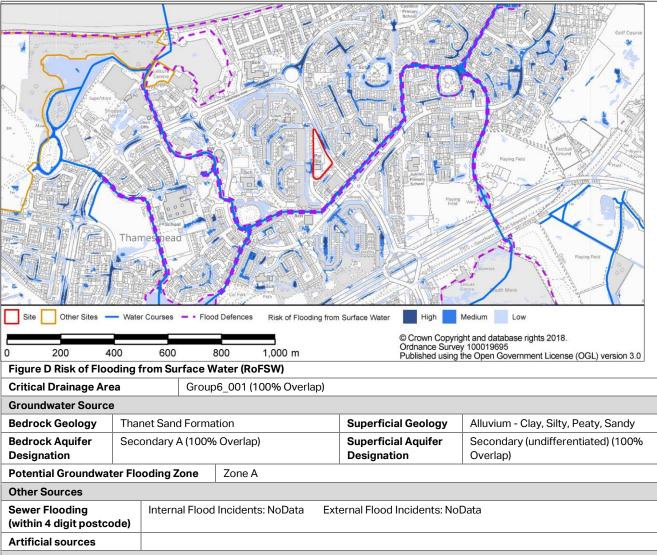
400

High

1,000 m

© Crown Copyright and database rights 2018. Ordnance Survey 100019695 Published using the Open Government License (OGL) version 3.0

#### Site Name: Titmuss Avenue



#### **Site Specific Recommendations**

The site is located within Flood Zone 3 but is in an area that benefits from the high ground defences. The site is at residual risk of tidal flooding. 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. 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. This site is suitable for water compatible open space development. 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 south east of the site along Carlyle Road. The local area is covered by the 'Tidal Thames from Erith High Street East to Woolwich Arsenal' Environment Agency Flood Warning Area. A Flood Warning and Evacuation Plan (FWEP) must be prepared for the site, detailing how flood warning will be provided as well as how the safety of occupants and access to/from the development will be ensured. Further details of what should be included can be found in the Developer Guidance.

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

### Site Name: Titmuss Avenue

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.

#### Summary

The site is located within Flood Zone 3, defended by the high ground defence, and has a residual risk of tidal flooding. More Vulnerable uses must be located on the first floor or above, with Less Vulnerable uses at ground level. 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. Due to the extent of flood risk on the site, a flood warning and evacuation plan should be implemented to ensure access to and from the site. On this basis, it is likely that this site could pass the Exception Test.