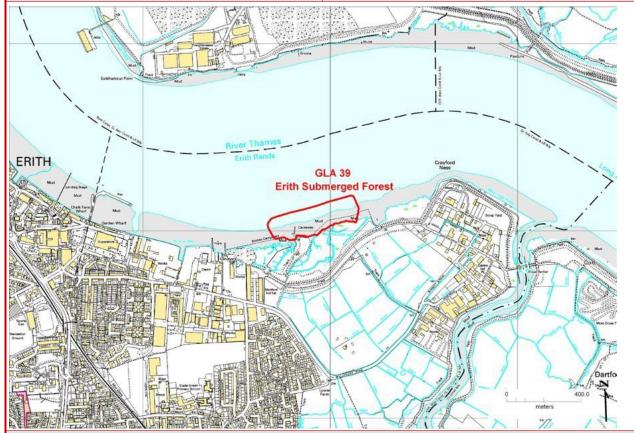
GLA 39 Erith Submerged Forest and Saltings			
Grid Reference: TQ 526 776	Site Type: Natural foreshore exposure of submerged forest		
Site Area (hectares):6.28	Current use: Natural marsh land and foreshore		
Site ownership: Port of London Authority	Borough: London Borough of Bexley		
Field surveyor: Laurie Baker, Diana Clements Re-visited: Laurie Baker, Diana Clements, Paul Rainey	Date: 2010 Dates: January 2016		
Current geological designation: RIGS	Other designation: Metropolitan SINC (River Thames and tidal tributaries)		
Site Map	OS Topography © Crown Copyright		



Stratigraphy and Rock Types

Time Unit: Holocene	Rock Unit: Alluvium & peat
Rock Type: Alluvium	Details: peat at varying horizons.

Site Description

This is the best place on the Thames Estuary within Greater London for viewing the Neolithic/Bronze Age submerged forest. At low tides whole tree trunks are revealed amongst the root balls and occasional nuts and seeds can also be found. Peat beds are also found on the banks above mean high tide level. At least five different ages of peat and trees have been dated ranging from over 5,000 years ago to approximately 3,000 years ago. Fifteen different tree and shrub species have been recognised of which the majority are alder. Other species include birch, willow, poplar, yew, maple, ash, oak, holly and elm. Shrubs include dogwood, alder buckthorn and buckthorn. The site represents a change from a drier environment when the yew and other 'dry' species were growing, to the wetter environment, produced by rising sea levels, leading to the dominance of alder.

Assessment of Site Value

Access and Safety

Aspect	Description
Safety of access	Access to the Thames foreshore is via a path (signed to Erith Yacht Club at

	TQ 527 779) leading from Manor Road, off the A2016 Bronze Age Nerith. After about 150m turn right onto the Thames Cycle Route alor top of a barrier as far as a concrete structure with a steel covering a down to the foreshore (TQ 532 781). The submerged forest can onl seen at low tide. Access to the foreshore itself is potentially dangered slippery and should only be attempted on a falling tide and never a	ng the and then y be ous and		
Safety of exposure	Storms could potentially damage the exposure as could any development along this stretch of the Thames			
Permission to visit	Open access. A further exposure just to the west requires permission from the Erith Yacht Club.			
Current condition	The foreshore is muddy, slippery and dangerous and should not be attempted alone.			
Current conflicting activities	None known			
Restricting conditions	Tide, weather, mud			
Nature of exposure	Natural foreshore exposure of Neolithic submerged forest			
Culture, Heritage & Econon	nic			
Aspect	Description	Rating		
Historic, archaeological & literary associations	Details can be found in Seel, 2000 and Sidell & Haughey, 2007. Described in GA Guide 68, 2012, Itinerary 10.	8		
Aesthetic landscape	Public viewing from cycle route	7		
History of Earth Sciences	Described in early editions of the Proceedings of the Geologists' Association	4		
Economic geology	None	0		
GeoScientific Merit				
Geomorphology	Record of changing sea levels in the Thames Estuary and an example of existing saltmarsh.	6		
Sedimentology	At least five peat horizons have been dated between 3,000 and 5,000 years old	6		
Palaeontology	At least 15 different species of plant	6		
Igneous/mineral/ Metamorphic Geology	None.	0		
Structural Geology	None.	0		
Lithostratigraphy	Holocene alluvium and associated peat horizons	6		
Potential use	Research; further education; on-site interpretation.			
Fragility	Storms; human engineering of Thames estuary			
Current Site Value				
Community	Valuable, as can be seen from cycle route	8		
Education	Excellent evidence for teaching about past environments of the Thames Estuary and about global warming and sea-level rise	9		
Geodiversity value				
RIGS: The best exposure of the Neolithic submerged forest with reasonable access for local community.				



Photo: Jane Sidell

