

# PORT AUTHORITY OF NSW HERITAGE INVENTORY

## State Heritage Inventory

SHI Number: 4560056		Study Number: N/A	
Item Name: Glebe Island Dyke Exposures			
Location: Solomons Way, Glebe Island, Rozelle			
Address: Solomons Way, Rozelle		DUAP Region: Sydney South	
Suburb / Nearest Town: Rozelle 2039		Historic Region: Sydney	
Local Govt Area: Inner West		Parish: Petersham	
State: NSW		County: Cumberland	
Other/Former Names: Great Sydney Dyke			
Area/Group/Complex:		Group ID:	
Aboriginal Area: Wanggal clan			
Curtilage/Boundary: Further research needed			
Item Type: Landscape	Group: Landscape - Natural	Category: Geological site or area	
Owner: Multiple Owners			
Current Use:			
Former Uses:			
Assessed Significance: Local		Endorsed Significance:	
Statement of Significance: The Great Sydney Dyke, although extensive with a length exceeding 10km, has only been sampled in the subsurface part as a part of geotechnical investigations for engineering projects. The exposures at Glebe Island provide a rare opportunity to examine the dyke at the surface level.			
Historical Notes or Provenance:			
Themes:	National Theme: 1. Environment	State Theme: Environment - naturally evolved	Local Theme: (none)
Designer:			
Maker / Builder:			
Year Started:	Year Completed:	Circa: No	
Physical Description: Extracted from Register of the National Estate database # 101882.  The Great Sydney Dyke has been traced discontinuously across the suburbs from the coast to Rozelle. The only exposure of the dyke not covered by urbanisation is at Glebe Island. Here it is visible on both sides of Victoria Road. The southern exposure has largely weathered to a clay slope. The best exposure is on the north side of the road where the exposure is about 7m high.  The dyke in the railway cutting is 5.1 to 5.95 m wide, is essentially vertical and has a strike of between 115 degrees (True) to 120degrees (True). The dyke appears to be formed by three different stages.			

The exposures provide excellent examples of differential weathering that has taken place within the outer bounding surfaces and internal sections of the dyke. The lithological spectrum of weathering varies from silty clay to residual 'corestones' of relatively fresh basalt.					
Physical Condition:					
Modification Dates:					
Recommended Management: Prepare a heritage assessment for the item including input from a suitably qualified geologist, in order to confirm its location, condition and overall significance, as well as any future required management policies.					
Preparation of a Maintenance and Conservation Works Schedule to ensure acceptable condition and assist in long-term conservation.					
Management: Statutory Instrument					
Further Comments: The exact extent and delineation of the formation could not be identified onsite and subsequently; it is recommended that further assessment of the item be undertaken.					
Criteria a)					
Criteria b)					
Criteria c)					
Criteria d)					
Criteria e) The Glebe Island Dyke Exposures have technical significance as a demonstration of a significant geological formation, impacting the historical development of Sydney, generally important for future students, professional geologists and engineers to study.					
Criteria f) The Glebe Island Dyke Exposure of the Great Sydney Dyke, is rare as one of the only areas of the dyke currently accessible to observe above ground surface level.					
Criteria g)					
Integrity / Intactness: Exposed in road and cuttings some of which have weathered to a non-descript clay slope.					
References:	Author:	Title:			Year:
	anon	Register of the National Estate Database # 101882			1996
	M. J. Dale, P. C. Rickwood, and G. W. Won	The Geology and Engineering Geology of the 'Great Sydney Dyke' Sydney NSW			1997
Studies:	Author:	Title:	Number:	Year:	
Parcels:	Parcel Code:	Lot Number:	Section:	Plan Code:	Plan Number:
Latitude:			Longitude:		
Listings:	Name:	Title:	Number:	Date:	
	Heritage Act – S.170 NSW State agency heritage register	Glebe Island Dyke Exposures	4560056		
Data Entry:	Date First Entered:	Date Updated:	Status:		
	18/12/2006	21/12/2022	Partial		



Image: 1



Caption: Currently understood location of the Glebe Island Dyke Exposures

Copyright: Port Authority of New South Wales

Image By: Zach Nix - NBRIS

Image Date: 5/10/2022

Image File:

Image: 2



Caption: Currently understood location of the Glebe Island Dyke Exposures

Copyright: Port Authority of New South Wales

Image By: Zach Nix - NBRIS

Image Date: 5/10/2022

Image File:

Image: 3



Caption: Currently understood location of the Glebe Island Dyke Exposures

Copyright: Port Authority of New South Wales

Image By: Zach Nix - NBRS

Image Date: 5/10/2022

Image File:

Image: 4



Caption: Currently understood location of the Glebe Island Dyke Exposures

Copyright: Port Authority of New South Wales

Image By: Zach Nix - NBRIS

Image Date: 5/10/2022

Image File:

Image: 5



Caption: Potential area of Dyke Exposure below Anzac Bridge

Copyright: Port Authority of New South Wales

Image By: Zach Nix - NBRS

Image Date: 7/12/2022

Image File: