

## **COPYRIGHT NOTICE**

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

## **LIMITATION OF LIABILITY**

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>

MAIN ROADS DEPARTMENT ENGINEERING BORE LOG

PROJECT SANDGATE ROAD BRIDGESITE FOUNDATION INVESTIGATION

Sheet 1 of 3

HOLE No. 4

LOCATION Pier 3, 6.9m right of Southbound Control  
Chainage 14980.6

REF. No. H 6202

DATUM AHD

JOB No. 140/U13C/201 PROJECT No. 1-614 DATE 14-15/8/89

SURFACE R.L. 2.260

DEPTH (m)	STRATA DESCRIPTION		FIELD SAMPLE & N VALUE	GRAPHIC LOG	ENGINEERING PROPERTIES														
	R.L.	LITHOLOGY			SOIL TYPE OR WEATHERING	PARAMETERS & INDICES		MC (%)x		DD (t/m <sup>3</sup> )□									
								x □	x □	x □	x □								
1:50		FILL																	
1.76 (0.50)		Gravelly clay fill material with thin asphalt surface.																	
1.01 (1.25)		CLAY (OH) Dark grey, very soft, wet, organic, medium plasticity - alluvial.		▽	8/9/89														
-0.24 (2.50)		GRAVELLY SAND (SW/GP) Grey, very loose, wet, fine to coarse grained sand with very fine gravel, varying proportions of clayey fines - almost clayey sand (SC) in places - alluvial.		A	MC=45.0% DD=1.18t/m <sup>3</sup>														
				B41															
				C41															
				D4															
-4.04 (6.30)		SANDY GRAVEL (GP) Brown, loose to moderately dense, wet, gravel to 20mm in sandy matrix - alluvial.																	
				E10															
-5.54 (7.80)		MUDSTONE Pale olive green with varying degrees of yellow-brown ironstaining towards top of strata, moist, generally very stiff with hard layers, fine grained, highly plastic residual SILTY CLAY (CH) representing a dipping, layered sedimentary sequence.																	
				F22															
				G															

REMARKS (Cont.)

Drilling method - wash boring

GEOL. \_\_\_\_\_  
ENGR. \_\_\_\_\_

S.P.T.   
 Core Loss   
 WEATHERED CONDITION   
 Extremely Weathered   
 Moderately Weathered   
 Water Level

Silty Clay   
 Highly Weathered   
 Slightly Weathered

NOTE  
FOR TERMS AND SYMBOLS REFER  
MRD FORM 23 AM (1/87)

MAIN ROADS DEPARTMENT ENGINEERING BORE LOG

PROJECT SANDGATE ROAD BRIDGESITE FOUNDATION INVESTIGATION

Sheet 2 of 3

HOLE No. 4 (Cont.)

LOCATION \_\_\_\_\_

REF. No. H \_\_\_\_\_

DATUM \_\_\_\_\_

JOB No. \_\_\_\_\_ PROJECT No. \_\_\_\_\_ DATE \_\_\_\_\_

SURFACE R.L. \_\_\_\_\_

ANGERING CORE DRILLING CASING OTHER	DEPTH (m)	STRATA DESCRIPTION		FIELD SAMPLE & N VALUE	GRAPHIC LOG	ENGINEERING PROPERTIES														
		LITHOLOGY	SOIL TYPE OR WEATHERING			PARAMETERS & INDICES		MC (%)x		DD (t/m <sup>3</sup> )□										
								x □	x □	x □	x □									
	1:50 R.L. -7.74																			
		MUDSTONE (Cont.) of very low strength clay beds, generally massive and fissured in structure with occasional bedding showing 20-25° dips.		G		Fissile oil shale beds with 25° dips.														
				H26																
				J35																
				K20																
				L19		Blue-grey clay shale and dark grey-black oil shale interbeds - displays lower consistencies than mudstone lithology.														
				M14																
				N30 N90																

REMARKS \_\_\_\_\_

GEOL. *[Signature]*  
ENGR. *[Signature]*

S.P.T.	Core Loss	<b>WEATHERED CONDITION</b>	Extremely Weathered	Moderately Weathered	Water Level
Highly Weathered	Slightly Weathered				

NOTE  
FOR TERMS AND SYMBOLS REFER  
to notices on attached cover page.

MAIN ROADS DEPARTMENT ENGINEERING BORE LOG

PROJECT SANDGATE ROAD BRIDGESITE FOUNDATION INVESTIGATION

Sheet 3 of 3

HOLE No. 4 (Cont.)

LOCATION \_\_\_\_\_

REF. No. H \_\_\_\_\_

JOB No. \_\_\_\_\_ PROJECT No. \_\_\_\_\_ DATE \_\_\_\_\_

DATUM \_\_\_\_\_ SURFACE R.L. \_\_\_\_\_

DEPTH (m)	STRATA DESCRIPTION		FIELD SAMPLE & N VALUE	GRAPHIC LOG	ENGINEERING PROPERTIES															
	R.L.	LITHOLOGY			SOIL TYPE OR WEATHERING	PARAMETERS & INDICES		MC (%)x		DD (t/m <sup>3</sup> )□										
1:50																				
-17.74																				
		MUDSTONE (Cont.)																		
-18.49																				
(20.75)																				
1		END OF HOLE																		
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				

REMARKS \_\_\_\_\_

GEOL. *[Signature]*  
ENGR. *[Signature]*

S.P.T.    
 Core Loss    
 WEATHERED CONDITION    
 Extremely Weathered    
 Moderately Weathered    
 Water Level  
 mm    
 Highly Weathered    
 Slightly Weathered  
 State of Queensland (Department of Transport and Main Roads) 2009 CC BY 4.0. Please refer to the right and limitation of liability notices on attached cover page.

NOTE  
FOR TERMS AND SYMBOLS REFER  
MRD FORM 23 AM (11/87)