

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/>



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH5 SHEET 1 of 6 REFERENCE No H12012

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes

LOCATION Above the road COORDINATES 416268.1 E; 6937770.2 N

PROJECT No FG6128 SURFACE R.L. 237.52m PLUNGE DATE STARTED 4/12/14 GRID DATUM MGA94

JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 8/12/14 DRILLER Hinterland

Table with columns: DEPTH (m), R.L. (m), WASH BORING CORE DRILLING, CORE REC %, SAMPLE, MATERIAL DESCRIPTION, LITHOLOGY, USC WEATHERING, INTACT STRENGTH, DEFECT SPACING, GRAPHIC LOG, ADDITIONAL DATA AND TEST RESULTS, SAMPLES TESTS.

TMR LIBRARY FILE 2014.GLB Log A:ENGINEERING BOREHOLE LOG W LITHOLOGY FG6128 MT WHITESTONE COMBINED.GPJ <<DrawingFile>> Datgel CPT Tool gInt Add-In 11/11/2015 15:25

REMARKS

LOGGED BY MS



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH5
SHEET 2 of 6
REFERENCE No H12012

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes
LOCATION Above the road COORDINATES 416268.1 E; 6937770.2 N
PROJECT No FG6128 SURFACE R.L. 237.52m PLUNGE _____ DATE STARTED 4/12/14 GRID DATUM MGA94
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 8/12/14 DRILLER Hinterland

DEPTH (m)	R.L. (m)	WASH BORING CORE DRILLING	RQD () % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	INTACT STRENGTH (AS1728)											DEFECT SPACING (AS1728)				GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							USC	WEATHERING			STRENGTH					DEFECTS								
							EH	VH	HM	ML	VL	EL	EC	VC	W	WV	WV	EW						
10	227.52				Sandy CLAY (COLLUVIUM) as before																			
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								

TMR LIBRARY FILE 2014.GLB Log A:ENGINEERING BOREHOLE LOG W LITHOLOGY FG6128 MT WHITESTONE COMBINED.GPJ <<DrawingFile>> Datgel CPT Tool gInt Add-In 11/11/2016 16:25

(C1)

REMARKS _____

LOGGED BY
MS



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH5
SHEET 3 of 6
REFERENCE No H12012

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinometer Boreholes
LOCATION Above the road COORDINATES 416268.1 E; 6937770.2 N
PROJECT No FG6128 SURFACE R.L. 237.52m PLUNGE _____ DATE STARTED 4/12/14 GRID DATUM MGA94
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 8/12/14 DRILLER Hinterland

DEPTH (m)	R.L. (m)	WASH BORING CORE DRILLING	RQD () % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1728)							DEFECT SPACING (AS1728)					GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS					
								EH	VH	HM	J	VL	EL	EC	VC	W	WV	WV	EW								
20	217.52				Sandy CLAY (COLLUVIUM) as before																						
21																											
22																											
23																											
24																											
25	212.52				Sandy CLAY with Cobbles and Boulders (COLLUVIUM) Orange brown to brownish grey, stiff. With sandstone fragments sized up to 200mm.	(C)																					
			100															%Pass 2.360mm = 95 %Pass 0.075mm = 57 %Pass 0.002mm = 23									
26																		Highly dispersive material.									
27						(CL)												Sample damaged due to breakage in core barrel.									
28					Becoming pale brownish grey. With angular to sub-angular, very low to low strength claystone fragments and boulders.													Highly dispersive material.									
29			100																								
30			100																								

TMR LIBRARY FILE 2014.GLB Log A ENGINEERING BOREHOLE LOG W LITHOLOGY FG6128 MT WHITESTONE COMBINED.GPJ <<DrawingFile>> Datgel CPT Tool gInt Add-In 11/11/2016 15:25

REMARKS _____

LOGGED BY
MS



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH5
SHEET 5 of 6
REFERENCE No H12012

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes

LOCATION Above the road COORDINATES 416268.1 E; 6937770.2 N

PROJECT No FG6128 SURFACE R.L. 237.52m PLUNGE _____ DATE STARTED 4/12/14 GRID DATUM MGA94

JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 8/12/14 DRILLER Hinterland

DEPTH (m)	R.L. (m)	WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1728)	DEFECT SPACING (AS1728)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
														EH
40	197.52					Sandy CLAY (COLLUVIUM) As before.								
41			100				(CL)					Highly dispersive material.		
42												LL = 37; PI = 19; LS = 10; DD = 1.63t/m ³ ; WD = 1.96t/m ³ ; MC = 14.7%		
43														
44			100	(76)								Core broken due to handling		
45	192.45					SANDSTONE MW: Orange brown, medium to coarse grained, medium to high strength.						Contact tight	Is(50) = 0.46MPa Is(50) = 0.75MPa	x o
46						45.78 - 46.54m subrounded to subangular pebbles comprised of quartz and altered feldspars, moderately weathered, medium strength.								
47						48.9 - 49.8m 10-20% subrounded to subangular clasts						HW band		
48			100	(100)		Defects: BP: 15° (<1/m); Un/Ro, FeSt J: 70°-75° (<1/m); Pl-Un/Ro, Tl, FeSt	MW							
49														
50												Is(50) = 1.80MPa	x	

REMARKS

LOGGED BY
MS



ENGINEERING BOREHOLE LOG

BOREHOLE No BH5

SHEET 6 of 6

REFERENCE No H12012

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinometer Boreholes
 LOCATION Above the road COORDINATES 416268.1 E; 6937770.2 N
 PROJECT No FG6128 SURFACE R.L. 237.52m PLUNGE DATE STARTED 4/12/14 GRID DATUM MGA94
 JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 8/12/14 DRILLER Hinterland

DEPTH (m)	R.L. (m)	WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1728)											DEFECT SPACING (AS1728)											GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS					
									EH			VH			IH			MV			EL			VC			W			VW				EW				
50	187.52					SANDSTONE MW: as before	MW																				Is(50) = 2.30MPa	o										
51	187.02			100 (94)		Interbedded SILTSTONE and CLAYSTONE SW: Pale to dark grey, very fine grained, very low to low strength. Laminations are closely spaced mainly 10-20mm, up to 50mm apart. 50.5m: 40mm band of dark brown moist, low plasticity, firm clayey SILT with rock fragments sized up to 10mm.																					Cave in material? Possible slip plane??											
52				94 (100)		Defects: J: 45° (<1/m); PI/Sm, CAFL	SW																				Inclinometer installed Is(50) = 0.49MPa Is(50) = 0.23MPa	o x										
55	182.57			100		Borehole terminated at 54.95m																					Is(50) = 1.20MPa Is(50) = 1.20MPa	x o										

REMARKS _____

LOGGED BY
MS

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
 Geotechnical Section
 35 Butterfield Street, Herston Qld 4006
 Phone 07 3066 3336



Project Name	Mt Whitestone (Detailed Investigation)		
Project No.	FG6196	Start Date	4/12/14
Borehole No.	BH 5	Finish Date	8/12/14
Location		Start Depth (m)	25.0
Detail	Gatton Clifton Rd -313	Finish Depth (m)	54.05
Chainage	15.04-15.40km	Submitted By	TH
Remarks	85mm QC Inclinator installed to 52.0m		

The photograph shows a series of soil core samples arranged in a tray. Each sample is labeled with its depth in meters. The labels include: 25.0 START, 25.65 RUN, 26.0, 27.0, 27.90 MID, 28.45 RUN, 28.70 MID, 29.70 RUN, 30.8 MID, 30.8 MID, C.L. 31.4-31.50, C.L. 31.4-31.50, 31.40 RUN SPACER, and 33.60 RUN. A scale bar at the bottom indicates a scale of 1:5, with markings from 0 to 700.

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
 Geotechnical Section
 35 Butterfield Street, Herston Qld 4006
 Phone 07 3066 3336



Project Name	Mt Whitestone (Detailed Investigation)		
Project No.	FG6196	Date	4/12/14
Borehole No.	BH 5	TMR H No.	8/12/14
Location		Start Depth (m)	25.0
Detail	Gatton Clifton Rd -313	Finish Depth (m)	54.05
Chainage	15.04-15.40km	Submitted By	TH
Remarks	85mm QC Inclinator installed to 52.0m		



CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
 Geotechnical Section
 35 Butterfield Street, Herston Qld 4006
 Phone 07 3066 3336



Project Name	Mt Whitestone (Detailed Investigation)		
Project No.	FG6196	Start Date	4/12/14
Borehole No.	BH 5	Finish Date	8/12/14
Location		Start Depth (m)	25.0
Detail	Gatton Clifton Rd -313	Finish Depth (m)	54.05
Chainage	15.04-15.40km	Submitted By	TH
Remarks	85mm QC Inclinator installed to 52.0m		

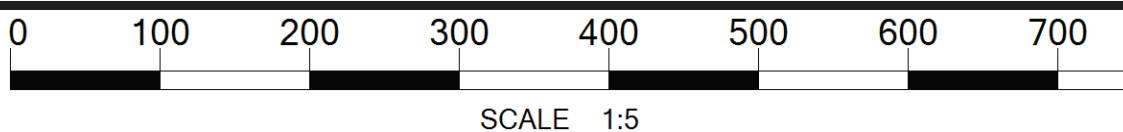


CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
 Geotechnical Section
 35 Butterfield Street, Herston Qld 4006
 Phone 07 3066 3336



Project Name	Mt Whitestone (Detailed Investigation)		
Project No.	FG6196	Start Date	4/12/14
Borehole No.	BH 5	Finish Date	8/12/14
Location		Start Depth (m)	25.0
Detail	Gatton Clifton Rd -313	Finish Depth (m)	54.05
Chainage	15.04-15.40km	Submitted By	TH
Remarks	85mm QC Inclinator installed to 52.0m		



Stand Pipe Details - SP5

