

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 and author as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence, prepared by FSG*". 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/>

This log has been contributed to the Queensland Geotechnical Database with the permission of FSG.

Commenced: 23/09/2015
 Completed: 24/09/2015
 Logged By: DJ
 Checked By: PM

Easting (MGA94 56): 530460.380
 Northing (MGA94 56): 6918538.713
 Surface RL (m): 15.007
 Inclusion (°): 90

Client: Seymour Whyte Constructions Pty Ltd
 Project: M1 Exit 54 Coomera Interchange Upgrade
 Project No.: 1831
 Location: Abutment A pile A2

DRILLING INFORMATION					MATERIAL DESCRIPTION		STRENGTH		OBSERVATIONS AND TESTING		STRATA			
Groundwater	Method	(TCR) RQD	Samples	Depth (m)	USC / Weathering	Soil Description Soil type, colour, plasticity and particle characteristics, secondary and minor components	Rock Description Rock type, colour, grain size, structure	Cons-Density Strength	Defect Spacing (mm)	Additional Comments Origin, Structure, Defect Descriptions	Testing Results	Graphic Log	Elevation (m)	Depth (m)
	Auger TC-bit		SPT	0		FILL: Silty Sandy GRAVEL (GM): Pale grey and light brown, fine to coarse grained sub-angular, fine to coarse grained sand, moist		6	20 60 200 600 2m	Fill			0	0
				1	GM			MD			SPT 1.00 12, 9, 14 N=23		14	1
			SPT	2		Silty CLAY (CH): Grey mottled orange brown, high plasticity, some fine to medium grained sub-angular gravel, moist					SPT 2.50 7, 8, 12 N=20		13	2
			SPT	3	CH			VSt					12	3
	WB blade-bit		SPT	4		ARGILLITE: Orange brown mottled pale grey		ELS		Weathered Rock (Neranleigh Fernvale)	SPT 4.00 20, 30/50mm		11	4
				5	XW			VLS					10	5
			SPT	6	HW	ARGILLITE: Pale grey with some orange brown mottling, some interbedded sandstone		LS			SPT 5.50 30/100mm			6

Additional Remarks
 Driller: Schneider Drilling
 Drill Rig:

QMS-6021.0-A

Commenced: 23/09/2015
 Completed: 24/09/2015
 Logged By: DJ
 Checked By: PM

Easting (MGA94 56): 530460.380
 Northing (MGA94 56): 6918538.713
 Surface RL (m): 15.007
 Inclination (°): 90

Client: Seymour Whyte Constructions Pty Ltd
 Project: M1 Exit 54 Coomera Interchange Upgrade
 Project No.: 1831
 Location: Abutment A pile A2

DRILLING INFORMATION					MATERIAL DESCRIPTION		STRENGTH		OBSERVATIONS AND TESTING		STRATA			
Groundwater	Method	(TCR) RQD	Samples	Depth (m)	Soil Description Soil type, colour, plasticity and particle characteristics, secondary and minor components	Rock Description Rock type, colour, grain size, structure	Cons-Density Strength	Defect Spacing (mm)	Additional Comments Origin, Structure, Defect Descriptions	Testing Results	Graphic Log	Elevation (m)	Depth (m)	
Groundwater Not Encountered	NMLC	(100) 52		6	(continued) ARGILLITE: Pale grey with some orange brown mottling, some interbedded sandstone		LS		6.33 Jo 45° Pl Sm cn			6	6	
					SANDSTONE: Pale grey with orange brown mottling, fine to medium grained, some dark grey argillite inclusions		VLS-LS		6.60 Jo 40° Pl Sm cn 6.69 Jo 45° Pl cg clay 10-15mm 6.76-6.82 Cs 10-45° Ir 60mm 6.90 Jo 5° Pl Sm cn 6.92 Jo 35° Ir Ro cn 7.10 Jo 15° Pl Sm cn 7.20 Jo 45° Ir Ro cn 7.32 Jo 5° Pl Sm cn			7	7	
		(100) 45		7			LS		7.54 Jo 30° Pl Sm cn 7.75-8.25 Cs 10-60° Ir 500mm			8	8	
					8					8.40 Jo 20° Pl Sm cn			7	8
					9	SANDSTONE: Pale grey with orange brown mottling, fine to medium grained		LS-MS		8.85 Jo 55° Ir Ro cn 8.93 Jo 60-80° Ir Ro cn			6	9
								MS		9.09 Jo 35° Un Ro cn				
		(100) 78			10			LS-MS		9.34 Jo 75° Pl cg clay 2-3mm 9.48 Jo 60° Ir Ro cn 9.51 Jo 20-40° Ir Ro cn				
								MS		9.75 Jo 40° Pl Ro vn clay				
					11			MS-HS		10.14 Jo 50° Pl Sm cn 10.15 Jo 45° Pl Sm cn 10.22 Jo 80° Ir Ro vn clay 10.31 Jo 60° Pl Sm sn Fe 10.40 Jo 45° Pl Ro sn Fe 10.56 Jo 75° Ir Sm sn Fe				
		(100) 47						MS		10.74 Jo 20° Ir Ro cg clay 2mm 10.76-10.78 Cs 5-40° Ir Ro 25mm 10.89 Jo 20° Pl Sm cn 10.91 Jo 30° Pl Sm cn 10.96 Handling break 11.05 Jo 60° Pl Ro cg clay 2mm 11.13 Jo 65° Ir Ro vn clay			4	11
								MS		11.27 Jo 30° Pl Ro vn clay 11.35 Jo 40° Pl Sm vn clay 11.40 Jo 40° Ir Ro vn clay 11.45 Jo 50° Ir Ro sn Fe 11.46-11.50 Cs 25-45° Ir Ro 40mm 11.54 Jo 50° Ir Ro sn Fe 11.59 Jo 45° Pl Ro sn Fe 11.67 Jo 15-50° St Ro sn Fe				
				(100) 64		12	ARGILLITE: Pale grey to dark grey, some interbedded fine to medium grained sandstone with orange brown mottled pale grey, argillite bedded at 45-60°		LS					

Additional Remarks
 Driller: Schneider Drilling
 Drill Rig:

Commenced: 23/09/2015
 Completed: 24/09/2015
 Logged By: DJ
 Checked By: PM

Easting (MGA94 56): 530460.380
 Northing (MGA94 56): 6918538.713
 Surface RL (m): 15.007
 Inclination (°): 90

Client: Seymour Whyte Constructions Pty Ltd
 Project: M1 Exit 54 Coomera Interchange Upgrade
 Project No.: 1831
 Location: Abutment A pile A2

DRILLING INFORMATION					MATERIAL DESCRIPTION		STRENGTH		OBSERVATIONS AND TESTING		STRATA					
Groundwater	Method	(TCR) RQD	Samples	Depth (m)	USC / Weathering	Soil Description Soil type, colour, plasticity and particle characteristics, secondary and minor components	Rock Description Rock type, colour, grain size, structure	Cons-Density Strength	Defect Spacing (mm)	Additional Comments Origin, Structure, Defect Descriptions	Testing Results	Graphic Log	Elevation (m)	Depth (m)		
Groundwater Not Encountered	NMLC	(100) 64		12	MW	(continued) ARGILLITE: Pale grey to dark grey, some interbedded fine to medium grained sandstone with orange brown mottled pale grey, argillite bedded at 45-60°		MS	6 20 60 200 600	12.00 Jo 25-50° St Ro sn Fe 12.11 Jo 50° Pl Ro cn 12.16 Jo 45° Pl Sm vn clay 12.28 Jo 10-20° Pl Sm cg clay 2mm		[Graphic Log]	12			
					HW-MW			LS-MS			12.60 Jo 60° Ir Ro sn Fe					
				13	MW	ARGILLITE: Orange brown mottled pale grey, some interbedded fine grained sandstone		MS			12.95 Jo 35° Pl Ro cg clay 2-3mm 13.08 Jo 45° Pl Ro cn 13.18 Jo 45° Pl Ro cg clay 2-5mm 13.28 Jo 40° Pl Ro sn Fe 13.28-13.37 Cs 10-35° Ir Ro 90mm 13.45 Jo 20° Ir Ro sn Fe 13.46-13.48 Cs 25° Ir Ro 20mm 13.49 Jo 30° Ir Ro cn 13.53 Jo 5-30° Ir Sm cn 13.62-13.67 Cs 5-35° Ir Ro 20-50mm 13.79-13.84 Cs 5-25° Ir Ro 20-50mm			2	13	
					XW			ELS-VLS					13.92 Jo 45° Pl Ro cg clay 4mm			
					HW			VLS					14.01 Jo 5-60° St Ro sn Fe			
				14	MW	SANDSTONE: Pale grey with orange brown mottling, fine to medium grained		MS					14.15-14.17 Cs 10-35° Ir Ro sn Fe 14.23 Jo 30-45° St Ro sn Fe		1	14
					MW-SW			HS					14.67 Jo 5-65° Ir Ro sn Fe 14.68-14.70 Cs 15-45° Ir Ro vn clay			
					HW-MW			MS					14.88 Jo 5° Ir Ro sn Fe 15.02 Jo 15° Pl Ro sn Fe 15.12 Jo 45° Pl Ro sn Fe		0	15
					SW			HS					15.25-15.40 Cs 25° Ir Ro sn Fe			
					XW			ELS					15.48 Jo 10° Ir Ro sn Fe 15.49-15.51 Cs 15-45° Ir Ro sn Fe 15.65 Jo 70° Pl Sm sn Fe 15.67 Jo 45° Pl Ro sn Fe 15.79 Jo 30° Ir Ro sn Fe			
					MW-SW			HS					15.94 Jo 35° Pl Ro sn Fe clay 16.21 Jo 10° Pl Sm sn Fe 16.27 Jo 80° Ir Ro sn Fe 16.33 Jo 45° Pl Ro sn Fe 16.46 Jo 40° Pl Ro sn Fe 16.51 Jo 20° Pl Sm sn Fe 16.74 Jo 70° Ir Ro sn Fe 16.92 Jo 5-10° Ir Ro sn Fe		-1	16
						(100) 64		16								
				17		EOH 17 m: Target depth								17		

Additional Remarks
 Driller: Schneider Drilling
 Drill Rig:

Commenced: 23/09/2015
Completed: 24/09/2015
Logged: DJ
Checked: JP

Easting (MGA94 56): 530460.38
Northing (MGA94 56): 6918538.713
Surface RL (m AHD): 15.007
Inclination (°): 90

Client: Seymour Whyte Constructions Pty Ltd
Project: M1 Exit 54 Coomera Interchange Upgrade
Project No.: 1831
Location: Abutment A pile A2

Start Depth (m): 5.60
End Depth (m): 17.00

Start RL (AHD): 9.41
End RL (AHD): -1.99

