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Client: Department of Main Roads

Project: Maleny to Kenilworth

Project Number: 37009-001

File Name: P:\WP\37009\Winlog

Drilling Information				Soil Description				Testing		Strata Information		
Groundwater	Drilling Method	Sample Type	Elevation (m LAT)	USC	Material Type; Colour; Plasticity Or Particle Characteristics; Structure	Moisture Content	Consistency/ Relative Density	Comments/ Test Results/ Origin	SPT Values	Graphic Log	Elevation (m LAT)	Depth (m)
	RC			FILL	<b>FILL (Sandy GRAVEL)</b> Yellow brown, silt, sand, gravel and cobbles present (road base), no organic material present, loose	D	VS S F St VSt H VL L MD D VD C	Embankment Fill				
		SPT		HW	<b>CONGLOMERATE</b> Yellow brown mottled white and red, grey and blue cobbles, highly weathered, extremely low strength			Bedrock	SPT @ 1.50m to 1.95m (5, 22, 30) N = 52			1.0
												2.0
		SPT		SW	Blue grey cobbles, slightly weathered, low strength <b>Begin NMLC Rock Log @ 2.60m</b>				SPT @ 2.50m to 2.61m (30/105mm) N* = 86			3.0
												4.0
												5.0

Driller: GEODRILL

Remarks:

Logged By: JSM

Date Logged: 31/07/08

Drill Type: Truck Mounted HydrapowerSupport: Casing - 2.50m

Checked By: MS

Date Checked: 12/08/08

**Commenced: 31/07/08 Borehole Number: CW-03**

**Completed: 31/07/08**

**Location:** CH 32878

**Easting:** 468719m  
**Northing:** 7054364m

**Elevation:** Not Surveyed

***Inclination: 90°***

**Datum:** UTM - Zone 56J

Sheet: 2 of 4

**Client:** Department of Main Roads

**Project: Maleny to Kenilworth**

**Project Number: 37009-001-01**

**File Name:** P:\WP\37009\Winlog

[illegible]

Driller: GEODRILL

Remarks:

Logged By: JSM


**Date Logged:** 31/07/08

**Drill Type:** Truck Mounted Hydrapower**Support:** Casing - 2.50m

**Checked By: MS**

**Date Checked:** 12/08/08



Drilling Information				Rock Description			Intact Strength			Rock Mass Defects			Strata Information										
Groundwater	Drilling Method	Core Recovery	Elevation (m LAT)	Weathering	Material Type; Colour; Plasticity Or Particle Characteristics; Structure	RQD (%)	Estimated Strength			Is(50) A/r/rD(MPa)	UCS (MPa)	Defect Spacing (m)			Defect Description (depth, type, angle, roughness, infill, thickness)	Graphic Log	Elevation (m LAT)	Depth (m)					
							VL EL	M L	VH H			0.02 0.006	0.2 0.06	0.6									
Blue	NMLC	75		HW	CORE LOSS - 100mm 5.00m to 5.10m	0								Refer to attached sheet for defect descriptions									
					CONGLOMERATE Yellow brown, fine grained with angular and sub-angular gravel, up to 7mm diameter, some infill of joints with white high plasticity clay, highly weathered, medium strength	0																	
		100																					
		100		HW-MW	Highly to moderately weathered, medium strength	43																	
				XW	CLAY Yellow, high plasticity, with some fragments of extremely weathered conglomerate, possible shear zone, soft																		
		100		CH	CONGLOMERATE Yellow brown, extremely weathered, medium strength	64																	
					CLAY Yellow, high plasticity, with some crushed rock, soft																		
				MW-SW	White, no rock fragments, stiff																		
					SW	CONGLOMERATE Yellow grey mottled black, white and yellow, moderately to slightly weathered, medium strength	80																
					100	SW	Crushed rock in clay seam, 60mm thick Yellow grey mottled white, grey black, up to 10mm, slightly weathered, very high strength					5.53											
				HW	Yellow and white clay, possible shear zone, highly weathered, 100-150mm thick, very stiff																		
			SW		Yellow grey mottled white, grey black, slightly weathered, very high strength	90				9.82													

Driller: GEODRILL

Remarks:

Logged By: JSM


Date Logged: 31/07/08

Drill Type: Truck Mounted HydrapowerSupport: Casing - 2.50m

Checked By: MS

Date Checked: 12/08/08



Drilling Information				Rock Description		Intact Strength			Rock Mass Defects				Strata Information					
Groundwater	Drilling Method	Core Recovery	Elevation (m LAT)	Weathering	Material Type; Colour; Plasticity Or Particle Characteristics; Structure	RQD (%)	Estimated Strength			Is(50) A/tr/D(MPa)	UCS (MPa)	Defect Spacing (m)		Defect Description (depth, type, angle, roughness, infill, thickness)	Graphic Log	Elevation (m LAT)	Depth (m)	
	NMLC	100		SW	CONGLOMERATE (Continued) Yellow grey mottled white, grey black, up to 10mm, slightly weathered, very high strength	90	VL	M	VH			0.02	0.2	Refer to attached sheet for defect descriptions				
		100					EL	L	H			0.006	0.06					0.6
		100		FR	Grey, clasts up to 10mm diameter, sub-rounded, quartz infill of defects, up to 1mm, fresh, high to very high strength	71												
					End of Borehole @ 12.85m													

Driller: GEODRILL

Remarks:

Logged By: JSM

Date Logged: 31/07/08

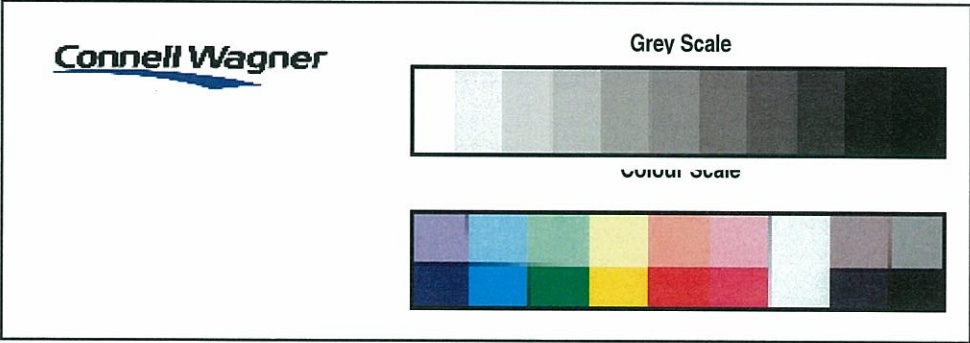
Drill Type: Truck Mounted HydrapowerSupport: Casing - 2.50m

Checked By: MS

Date Checked: 12/08/08

Depth (m)	Type	Dip (Degrees)	Aperture (mm)	Nature of Infilling	Infill Consistency	Roughness (Profile, JRC @ 100mm)
5.16	Joint	5	Very Narrow (2-6mm)	Surface Staining	High Strength	Rough - Planar
5.22	Joint	5	Very Narrow (2-6mm)	Cohesive (clay/silts)	Soft / Loose	Rough - Planar
5.26	Joint	15	Very Narrow (2-6mm)	Surface Staining	High Strength	Rough - Undulating
5.50	Joint	15	Extremely Narrow (2mm)	Surface Staining	High Strength	Rough - Undulating
5.60	Joint	73	Extremely Narrow (2mm)	Surface Staining	High Strength	Smooth - Planar
6.62	Joint	15	Moderately Narrow (20-60mm)	Cohesive (clay/silts)	Soft / Loose	Rough - Planar
6.74	Joint	5	Narrow (6-20mm)	Cohesive (clay/silts)	Stiff / Dense	Rough - Planar
6.93	Joint	60	Extremely Narrow (2mm)	Cohesive (clay/silts)	Soft / Loose	Rough - Planar
7.15	Joint	5	Moderately Narrow (20-60mm)	Other	Stiff / Dense	Rough - Planar
7.22	Joint	15	Very Narrow (2-6mm)	Surface Staining	High Strength	Rough - Undulating
7.48	Joint	0	Moderately Narrow (20-60mm)	Other	Very Low Strength	
7.85	Joint	0	Extremely Narrow (2mm)	Surface Staining	Extremely High	Rough - Undulating
8.15	Joint	5	Very Narrow (2-6mm)	Surface Staining	High Strength	Rough - Undulating
8.36	Joint	15	Very Narrow (2-6mm)	Surface Staining/Other	Firm / Med. Dense	Rough - Planar
8.62	Joint	30	Extremely Narrow (2mm)	Quartz	Very High Strength	Rough - Planar
8.95-9.15	Shear	15	Wide (>200mm)	Cohesive (clay/silts)	Stiff / Dense	Rough - Planar
9.50	Joint	65	Tight	Surface Staining	Very High Strength	Smooth - Planar
9.53	Joint	15	Very Narrow (2-6mm)	Surface Staining	Very High Strength	Smooth - Planar
9.65	Joint	30	Extremely Narrow (2mm)	Quartz	Very High Strength	Rough - Undulating
9.76	Joint	75	Tight	Surface Staining	Very High Strength	Rough - Planar
9.87	Joint	45	Extremely Narrow (2mm)	Clean	Very High Strength	Rough - Planar
10.15	Joint	60	Moderately Narrow (20-60mm)	Surface Staining	Soft / Loose	Rough - Planar
10.42	Joint	10	Moderately Narrow (20-60mm)	Cohesive (clay/silts)	Soft / Loose	Rough - Planar
10.74	Joint	45	Tight	Surface Staining	Very High Strength	Smooth - Planar
10.80	Joint	55	Tight	Surface Staining	Very High Strength	Smooth - Planar
10.85 - 10.95	Crushed					
10.94	Joint	40	Very Narrow (2-6mm)	Surface Staining	High Strength	Rough - Undulating
11.00	Joint	40	Very Narrow (2-6mm)	Cohesive (clay/silts)	Soft / Loose	Rough - Planar
11.33	Joint	45	Tight	Surface Staining	Extremely High	Smooth - Planar
11.40	Joint	40	Tight	Surface Staining	Extremely High	Smooth - Planar
11.46	Joint	30	Tight	Surface Staining	Extremely High	Smooth - Planar
11.62	Joint	55	Very Narrow (2-6mm)	Cohesive (clay/silts)	Soft / Loose	Smooth - Planar
11.74	Joint	20	Extremely Narrow (2mm)	Surface Staining	Very High Strength	Rough - Planar
11.92	Joint	65	Tight	Surface Staining	Extremely High	Smooth - Planar
12.16	Joint	20	Extremely Narrow (2mm)	Quartz	Very High Strength	Rough - Planar
12.23	Joint	70	Very Narrow (2-6mm)	Cohesive (clay/silts)	Soft / Loose	Smooth - Planar
12.29	Joint	70	Very Narrow (2-6mm)	Cohesive (clay/silts)	Soft / Loose	Smooth - Planar
12.48	Joint	70	Tight	Surface Staining	Extremely High	Smooth - Planar
12.54	Joint	75	Tight	Surface Staining	Extremely High	Smooth - Planar
12.60	Joint	75	Extremely Narrow (2mm)	Surface Staining	Very High Strength	Smooth - Planar
12.64	Joint	75	Extremely Narrow (2mm)	Surface Staining	Very High Strength	Smooth - Planar
12.72	Joint	0	Extremely Narrow (2mm)	Surface Staining	Very High Strength	Smooth - Planar
12.76	Joint	70	Extremely Narrow (2mm)	Surface Staining	Very High Strength	Smooth - Planar

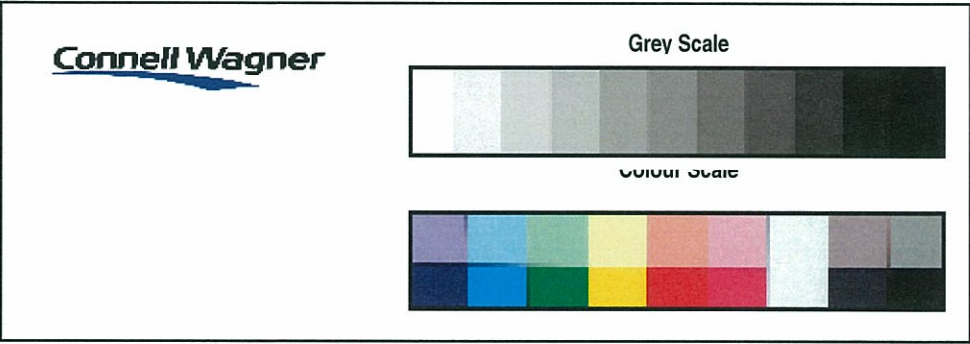




Borehole Number		BH03	
Page	1	of	2
Depth	2.60	to	8.15
Project	Maleny to Kenilworth Slope Stability Investigation		
Number	37009-001-01		
Client	Department of Main Roads		







Borehole Number		BH03	
Page	2	of	2
Depth	8.15	to	12.85
Project	Maleny to Kenilworth Slope Stability Investigation		
Number	37009-001-01		
Client	Department of Main Roads		

