


RECORD OF BOREHOLE No 04-30

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+500 Lt 5.0m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
 DATUM Geodetic DATE 2004.11.15 CHECKED BY R.C.

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					WATER CONTENT (%)			
							20	40	60	80	100	W _p	W	W _L		
186.5	Ground Surface															
0.0	FILL - SAND & GRAVEL		1	AS		186										
	----- - SAND - trace gravel, trace silt, brown															
185.3			2	SS	9											
1.2	End of Borehole @ 1.2m. Auger Refusal.															

\times^3, \star^3 : Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

ENCLOSURE 1

RECORD OF BOREHOLE No 04-31

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+550 Lt 5.0m ORIGINATED BY P.R.
DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
DATUM Geodetic DATE 2004.11.15 CHECKED BY R.C.




SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					WATER CONTENT (%)			
							20	40	60	80	100	W _p	W	W _L		
184.5	Ground Surface															
0.0	FILL - SAND & GRAVEL		1	AS		184										Dry on completion.
183.8	----- - SAND - some gravel, trace silt, brown End of Borehole @ 0.7m. Auger Refusal.		2	AS												Numerous attempts. Auger Refusal @ 0.7m.
0.7																

RECORD OF BOREHOLE No 04-62

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+471 Lt 19.0m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Backhoe COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.14 CHECKED BY R.C.

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					WATER CONTENT (%)			
						20	40	60	80	100	W _p	W	W _L			
180.7	Ground Surface															
180.6	TOPSOIL - 200mm															
0.2	SAND & SILT - trace gravel, brown															
180.0																
0.7	SAND - some gravel, trace silt, occasional cobbles, brown/grey															
179.7	End of Testpit @ 1.0m. Refusal on Bedrock.															
1.0																

x³, ★³: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE





ENCLOSURE 3

RECORD OF BOREHOLE No 04-63

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METRIC

W.P. 392-98-00 LOCATION 30+491 Lt 16.0m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Backhoe COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.14 CHECKED BY R.C.

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					WATER CONTENT (%)			
							20	40	60	80	100	W _p	W	W _L		
180.7	Ground Surface															
180.6	TOPSOIL - 200mm															
0.2	SAND - Silty, trace cobbles, brown															
180.0																
0.7	SAND & GRAVEL - trace silt, occasional cobbles, brown															
179.2						180										
1.5	End of Testpit @ 1.5m. Refusal on Bedrock.															

\times^3, \star^3 : Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE



ENCLOSURE 4

RECORD OF BOREHOLE No 04-64

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METRIC

W.P. 392-98-00 LOCATION 30+510 Lt 21.0m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Backhoe COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.14 CHECKED BY R.C.

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					WATER CONTENT (%)			
							20	40	60	80	100	W _p	W	W _L		
178.8	Ground Surface															
178.0	TOPSOIL - 200mm															
0.2	SAND - Silty, trace gravel, brown															
178.2																
0.6	End of Testpit @ 0.6m. Refusal on Bedrock.					178										

\times^3, \star^3 : Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

ENCLOSURE 5

RECORD OF BOREHOLE No 04-65

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METRIC

W.P. 392-98-00 LOCATION 30+525 Lt 17.5m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.14 CHECKED BY R.C.



SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			SHEAR STRENGTH kPa					WATER CONTENT (%)				
							20	40	60	80	100	W _p	W	W _L			
178.7	Ground Surface																
178.8	TOPSOIL - 250mm																
0.3	SAND - some gravel, trace silt, brown, very dense		1	AS		▼							○			Water level @ 0.6m on completion. Cave @ 1.0m on completion.	
			2	SS	70								○				
177.2																	
1.5	SAND - Silty, some gravel, brown/red, compact												○			15 62 (22)	
176.8			3	SS	17												
1.9	End of Borehole @ 1.9m. Auger Refusal.															Visible bedrock outcrop at toe of slope.	

RECORD OF BOREHOLE No 04-66

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METRIC

W.P. 392-98-00 LOCATION 30+553 Lt 22.5m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.14 CHECKED BY R.C.

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa					WATER CONTENT (%)			
							20	40	60	80	100	W _p	W	W _L		
178.2	Ground Surface															
0.0	TOPSOIL - 350mm															
177.8																
0.4	SILT & SAND - trace gravel, occasional cobbles, brown, dense		1	AS												
			2	SS	45											
176.6																
1.6	End of Borehole @ 1.6m. Auger Refusal.															

RECORD OF BOREHOLE No 04-67

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+576 Lt 17.0m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.13 CHECKED BY R.C.

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			SHEAR STRENGTH kPa					WATER CONTENT (%)				
							20	40	60	80	100	W _p	W	W _L			
178.7	Ground Surface																
178.8	TOPSOIL - 250mm		1	AS													
0.3	CLAY - some organics, trace sand, brown		2	SS	1												
177.5	SAND & SILT - grey/brown, compact		3	SS	17												
176.5	SAND - some gravel, trace silt, brown, compact		4	SS	30												
175.0	SAND - Silty, some gravel, grey/brown, compact		5	SS	26												
174.2	End of Borehole @ 4.5. Auger Refusal.		6	SS	11												

x³, ★³: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

ENCLOSURE 8

RECORD OF BOREHOLE No 04-68

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+593 Lt 22.0m ORIGINATED BY P.R.
DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
DATUM Geodetic DATE 2004.12.13 CHECKED BY R.C.

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT				PLASTIC LIMIT NATURAL MOISTURE CONTENT LIQUID LIMIT			UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			SHEAR STRENGTH kPa				W _p	W	W _L		
								○ UNCONFINED ✕ FIELD VANE □ QUICK TRIAXIAL ★ LAB VANE				WATER CONTENT (%)				
179.2	Ground Surface						20	40	60	80	100					
179.0	TOPSOIL - 200mm		1	AS												
0.2	SAND - some organics, trace gravel, occasional cobbles, brown															
178.6	SAND & SILT - trace gravel, brown/grey, compact to dense		2	SS	6											
0.6																
			3	SS	24											
			4	SS	49											
			5	SS	37											
			6	SS	32											
			7	SS	30											
			8	SS	18											
172.3																
6.9	End of Borehole @ 6.9m. Auger Refusal.															

UNIFIED SOIL CLASSIFICATION SYSTEM

