



RECORD OF BOREHOLE No 03-28

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+105 Lt 7.0m 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			
189.8	Ground Surface																
0.0	FILL - SAND & GRAVEL		1	AS													Dry on completion.
189.1	----- - SAND - some gravel, trace silt, brown		2	AS													
0.8	End of Borehole @ 0.75m. Auger Refusal.					189											Numerous attempts. Auger Refusal @ 0.75m.

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



ENCLOSURE 1

RECORD OF BOREHOLE No 03-29

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+055 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			
189.0	Ground Surface																
0.0	FILL - SAND & GRAVEL		1	AS													Dry on completion.
188.2	----- - SAND - some gravel, trace silt, brown		2	AS													Cave @ 0.75m on completion.
0.8	End of Borehole @ 0.75m. Auger Refusal.					188											Numerous attempts. Auger Refusal @ 0.75m.

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

ENCLOSURE 2

RECORD OF BOREHOLE No 03-68A

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+136 Lt 20.0m 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		
185.7	Ground Surface															
186.6	TOPSOIL - occasional cobble															
0.2	SAND & SILT - trace gravel, brown, compact		1	BS		185										Dry on completion.
184.7			2	BS												(57)
1.0	End of Testpit @ 1.0m. Refusal on Bedrock.															

RECORD OF BOREHOLE No 03-69

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+120 Lt 20.0m 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		
184.6	Ground Surface															
184.4	TOPSOIL - 250mm															
0.3	SAND & SILT - trace gravel, occasional cobbles, brown, compact		1	BS												
183.9																
0.7	End of Testpit @ 0.7m. Refusal on Bedrock.															

RECORD OF BOREHOLE No 03-70

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+100 Lt 21.5m 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		
181.8	Ground Surface															
180.8	TOPSOIL - 250mm															
0.3	SAND & SILT - trace gravel, occasional cobbles, brown, compact		1	BS												Dry on completion. 2 43 (55)
180.6						181										
1.2	End of Testpit @ 1.2m. Refusal on Bedrock.															

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



ENCLOSURE 5

RECORD OF BOREHOLE No 03-71

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+086 Lt 20.0m 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		
182.8	Ground Surface															
0.0	TOPSOIL - 300mm, with rockfill															
0.3	SAND & SILT - trace gravel, brown															
0.6	End of Testpit @ 0.6m. Refusal on Bedrock.					182										

RECORD OF BOREHOLE No 03-72

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METRIC

W.P. 392-98-00 LOCATION 30+065 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	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		
182.8	Ground Surface															
180.0	TOPSOIL - 200mm															
0.2	SAND & SILT - occasional cobbles, brown, compact		1	BS		182										0 45 (55)
			2	BS		181										0 42 (58)
180.5			3	BS												Dry on completion.
2.3	End of Testpit @ 2.3m. Refusal on Bedrock.															

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

ENCLOSURE 7

RECORD OF BOREHOLE No 03-73

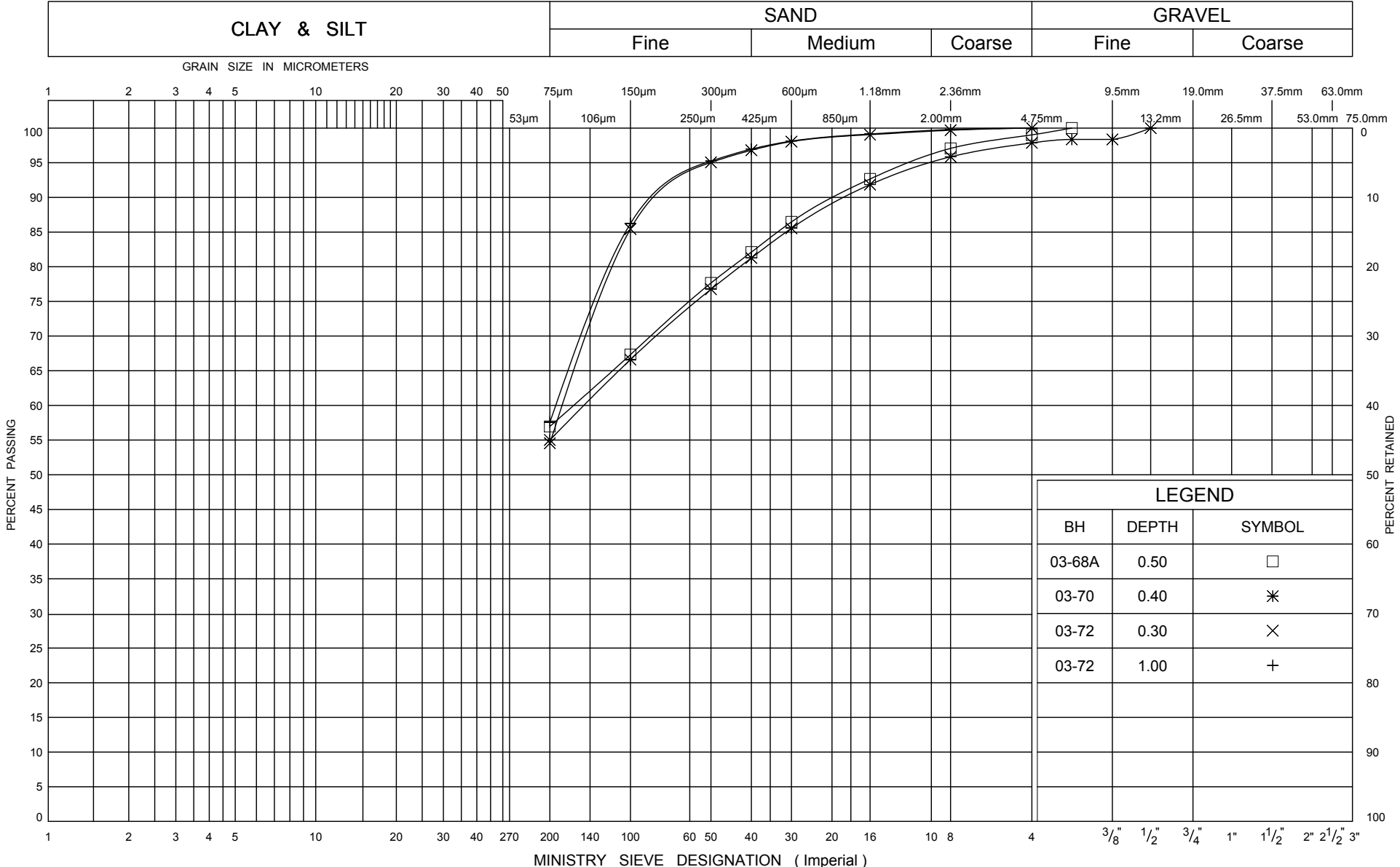
1 OF 1

METRIC

W.P. 392-98-00 LOCATION 30+045 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 (%) 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			
183.8	Ground Surface																
180.0	TOPSOIL - 200mm																
0.2	SAND & SILT - trace gravel, brown		1	BS													
183.0			2	BS													
0.8	End of Testpit @ 0.8m. Refusal on Bedrock.					183											

UNIFIED SOIL CLASSIFICATION SYSTEM



GRAIN SIZE DISTRIBUTION

ENCLOSURE 9

W P 392-98-00