

METRIC

[illegible]

ENCLOSURE 1

RECORD OF BOREHOLE No 09-54

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 12+090 Lt 11.5m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.03 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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173.9	Ground Surface					▼		20	40	60	80	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

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

ENCLOSURE 2

RECORD OF BOREHOLE No 09-55

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 12+120 Lt 5.5m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
 DATUM Geodetic DATE 2004.11.27 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			
175.1	Ground Surface																
0.0	FILL - SAND & GRAVEL ----- - SAND - some gravel, compact		1	AS													
			2	SS	25												
			3	SS	17												
172.3			4	SS	2												
2.8	ORGANICS - black		5	SS	1												
171.5			6	TW													
3.6	SAND - Silty, trace gravel, grey, very loose																
170.7																	
4.4	End of Borehole @ 4.4m. Auger Refusal.																

For Von Post
Classification
System for peat
see Appendix C.

RECORD OF BOREHOLE No 09-55A

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 12+120 Lt 14.5m ORIGINATED BY P.R.
DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
DATUM Geodetic DATE 2004.12.04 CHECKED BY R.C.

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)				
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			SHEAR STRENGTH kPa										
174.0	Ground Surface																	
0.0	TOPSOIL - 400mm		1	AS														
173.6																		
0.4	ORGANICS - black		2	SS	1													
			3	SS	1													
171.7																		
2.3	SAND - trace silt, grey, loose		4	SS	3													
171.0																		
3.0	SAND - Gravelly, Silty, occasional cobbles, grey, compact		5	SS	12													
170.2																		
3.8	End of Borehole @ 3.8m. Auger Refusal.																	
</																		

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

ENCLOSURE 4

METRIC

ENCLOSURE 5

RECORD OF BOREHOLE No 09-57

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 12+150 Lt 14.5m ORIGINATED BY P.R.
DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
DATUM Geodetic DATE 2004.12.04 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		
174.1	Ground Surface															
0.0	TOPSOIL - 400mm															
173.7																
0.4	PEAT - black		1	AS												
			2	SS												
172.6																
1.5	End of Borehole @ 1.5m. Auger Refusal.															

For Von Post
Classification
System for peat
see Appendix C.

RECORD OF BOREHOLE No 09-58

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 12+175 Lt 12.0m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.04 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			
173.9	Ground Surface																
0.0	TOPSOIL - 400mm		1	AS													
173.5																	
0.4	PEAT - black		2	SS													
172.4																	
1.5	SAND & SILT - grey/brown, very loose		3	SS	2												
171.7																	
2.2	SAND - Silty, some gravel, occasional cobbles, grey, loose to very dense		4	SS	8												
			5	SS	12												
			6	SS	56												
			7	SS	121												
168.3																	
5.6	End of Borehole @ 5.6m. Auger Refusal.																

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



ENCLOSURE 7

RECORD OF BOREHOLE No 09-59

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 12+205 Lt 14.5m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.04 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			
174.2	Ground Surface																
0.0	TOPSOIL - 350mm																
173.9																	
0.4	SAND - trace silt, trace gravel, trace organics, brown, very loose to loose		1	AS													
			2	SS	4												
172.2			3	SS	2												
2.0	End of Borehole @ 2.0m. Auger Refusal.																

RECORD OF BOREHOLE No 09-60

1 OF 1

METRIC

W.P. 392-98-00 LOCATION 12+220 Lt 4.0m ORIGINATED BY P.R.
 DIST 54 HWY 17 BOREHOLE TYPE Hollow Stem Auger COMPILED BY T.G.
 DATUM Geodetic DATE 2004.12.07 CHECKED BY R.C.

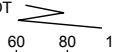
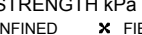


SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT					PLASTIC LIMIT w _p	NATURAL MOISTURE CONTENT w	LIQUID LIMIT w _L	UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%)			
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			SHEAR STRENGTH kPa										WATER CONTENT (%)		
								20	40	60	80	100								
175.3	Ground Surface																			
0.0	FILL - SAND & GRAVEL		1	AS			175										Water level @ 1.4m 1hr after completion. Cave @ 2.3m 1hr after completion.			
	----- - SAND - trace gravel, trace silt, brown to grey, loose to compact		2	SS	9		174													
			3	SS	10		173													
	----- - trace to some organics		4	SS	5		172													
171.8			5	SS	1		171													
3.5	SAND - trace silt, grey																			
171.3																				
4.0	SILT - Sandy, grey, loose		6	SS	6															
170.4			7	SS																
4.9	End of Borehole @ 4.9m. Auger Refusal.																			

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

ENCLOSURE 9

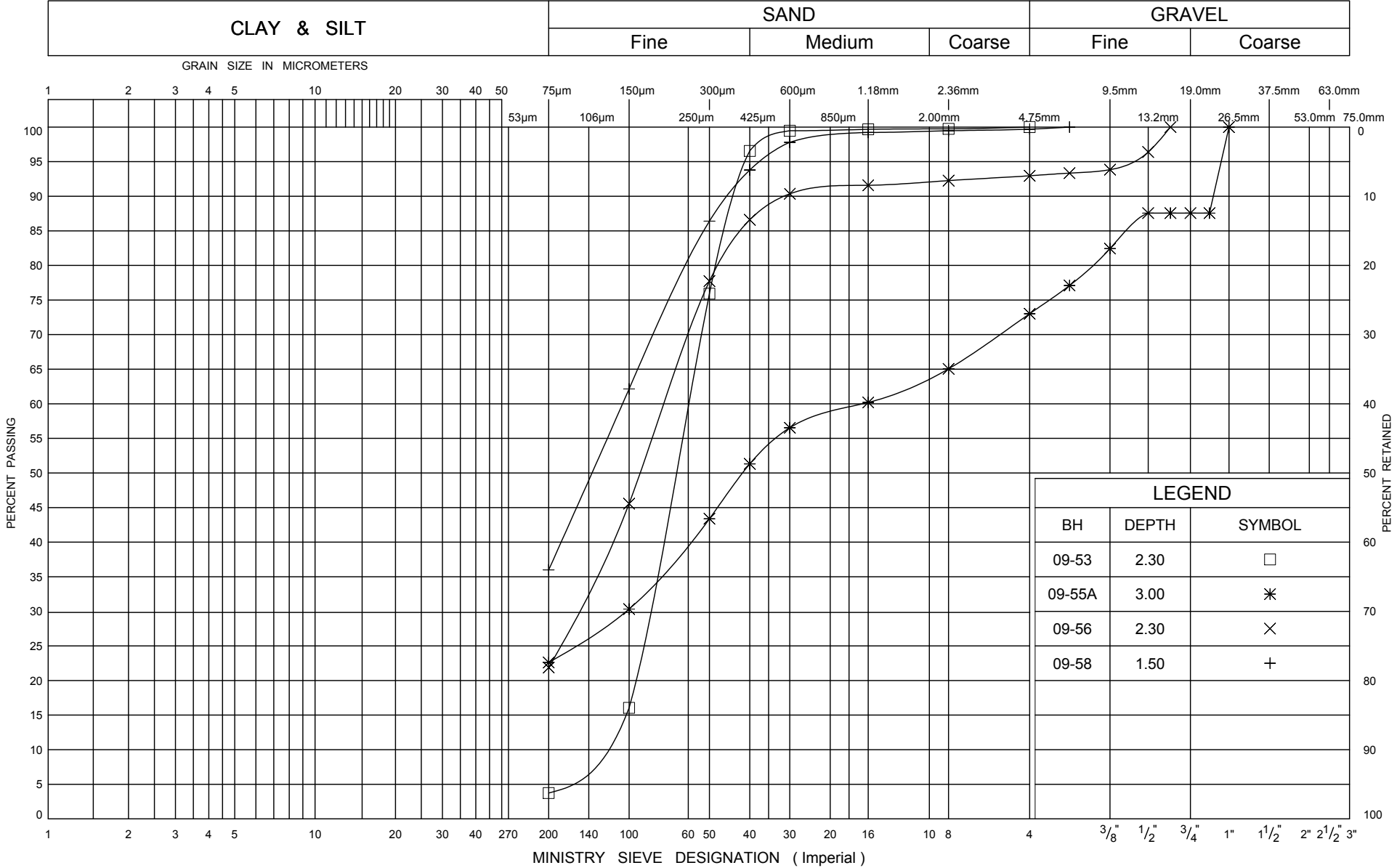
1 OF 1

W.P.	392-98-00	LOCATION	12+225 Lt 12.5m	ORIGINATED BY	P.R.
DIST	54	HWY	17	BOREHOLE TYPE	Hollow Stem Auger
DATUM	Geodetic	DATE	2004.12.04	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	20			40	60	80	100	Wp	W	WL				
173.8	Ground Surface																		
0.0	TOPSOIL - 400mm																H8 B2 F2 R1 W		
173.4																			
0.4	ORGANICS - black																H8 B2 F2 R1 W		
172.3																			
1.5	End of Borehole @ 1.5m. Auger Refusal.																Water level @ 0.3m on completion. Cave @ 0.75m on completion.		

For Von Post Classification System for peat see Appendix C.

UNIFIED SOIL CLASSIFICATION SYSTEM



GRAIN SIZE DISTRIBUTION

ENCLOSURE 11

W P 392-98-00