

APPENDIX "E"

FIELD INVESTIGATION LOGS

Material Source No. SITE 21 STOCKPILES
 VICTORIA HIGHWAY 184 - 220 KM
 Logged By: AB

Date: DECEMBER 2004

Campbell Project Managers Pty Ltd - ABN 45 107 269 509 - 8 Quin Ct Alice Springs

Hole No.	Depth (mm)	Soil Name (Texture)	Grain Size		Max Size (mm)	Nominal Size (mm)	Estimated Retained 40mm	Estimated PI (Material Passing 2mm)	Particle Shape	Particle Strength	Rock Type	Colour	USC Symbol	Density (Coarse Grained Soils)	Consistency (Fine Grained Soils)	Remarks, Samples	
			Gravel	Sand													
SITE 21 S/PILE	S/PILE	Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft	VERY HARD STONE	
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft		
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm		
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff		
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff		
		Sandy clayey gravel				40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard		
		Other (specify)				Other (specify)	Other (specify)	Other (specify)	Elongated		Other (specify)	Other (specify)	Other (specify)		Friable		
												CHERT					
												Sandstone	Grey	SM	Very loose		Very soft
												Pea Gravel	Yellow	GM/SM	Loose		Soft
												Siltstone	Orange	GM	Medium dense		Firm
												Quartz	Brown	GP-GM-GC	Dense		Stiff
										Quartzite	Red-brown	GM-GC	Very dense	Very stiff			
										Calcrete	Mottled	GC		Hard			
										Other (specify)	Other (specify)	Other (specify)		Friable			
											LATERITIC SANDSTONE						
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft		
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft		
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm		
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff		
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff		
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard		
		Other (specify)			<5MM	Other (specify)	Other (specify)	Other (specify)	Elongated		Other (specify)	Other (specify)	Other (specify)		Friable		
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft		
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft		
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm		
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff		
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff		
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard		
		Other (specify)			<5MM	Other (specify)	Other (specify)	Other (specify)	Elongated		Other (specify)	Other (specify)	Other (specify)		Friable		
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft		
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft		
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm		
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff		
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff		
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard		
		Other (specify)			<5MM	Other (specify)	Other (specify)	Other (specify)	Elongated		Other (specify)	Other (specify)	Other (specify)		Friable		
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft		
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft		
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm		
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff		
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff		
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard		
		Other (specify)			<5MM	Other (specify)	Other (specify)	Other (specify)	Elongated		Other (specify)	Other (specify)	Other (specify)		Friable		

Material Source No. RG7 CROC FARM ACCESS
 VICTORIA HIGHWAY 184 - 220 KM
 Logged By: AB

Date: DECEMBER 2004

Campbell Project Managers Pty Ltd - ABN 45 107 269 509 - 8 Quin Ct Alice Springs

Hole No.	Depth (mm)	Soil Name (Texture)	Grain Size		Max Size (mm)	Nominal Size (mm)	Estimated Retained 40mm	Estimated PI (Material Passing 2mm)	Particle Shape	Particle Strength	Rock Type	Colour	USC Symbol	Density (Coarse Grained Soils)	Consistency (Fine Grained Soils)	Remarks, Samples		
			Gravel	Sand														
RG7 CROC FARM	RIVER BANK	Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft			
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft			
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm			
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff			
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff			
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard			
		Other (specify)			< 2 MM	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable			
		SILTY SAND/CLAY				< 2 MM							SM / SC					
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft			
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft			
Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm					
Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff					
Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff					
Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard					
Other (specify)				Other (specify)	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable				
LATERITIC SANDSTONE																		
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft			
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft			
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm			
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff			
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff			
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard			
		Other (specify)			< 5MM	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable			
				Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft	
				Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
				Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm	
Sandy silty gravel					75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff			
Sandy gravel some silt					150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff			
Sandy clayey gravel					Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard			
Other (specify)						Other (specify)	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable		

Hole No.	Depth (mm)	Soil Name (Texture)	Grain Size		Max Size (mm)	Nominal Size (mm)	Estimated Retained 40mm	Estimated PI (Material Passing 2mm)	Particle Shape	Particle Strength	Rock Type	Colour	USC Symbol	Density (Coarse Grained Soils)	Consistency (Fine Grained Soils)	Remarks, Samples		
			Gravel	Sand														
RG7 COOLIBAH ACCESS	RIVER BANK	Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft			
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft			
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm			
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff			
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff			
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard			
		Other (specify)			< 2 MM	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable			
		SILTY SAND/CLAY				< 2 MM							SM / SC					
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft			
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft			
Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm					
Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff					
Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff					
Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard					
Other (specify)				Other (specify)	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable				
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft			
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft			
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm			
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff			
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff			
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard			
		Other (specify)			< 5MM	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable			
				Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft	
				Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
				Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm	
Sandy silty gravel					75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff			
Sandy gravel some silt					150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff			
Sandy clayey gravel					Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard			
Other (specify)						Other (specify)	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable		

Material Source No. RG7 AND RG3 LOAM
 VICTORIA HIGHWAY 184 - 220 KM
 Logged By: AB

Campbell Project Managers Pty Ltd - ABN 45 107 269 509 - 8 Quin Ct Alice Springs

Date: DECEMBER 2004

Hole No.	Depth (mm)	Soil Name (Texture)	Grain Size		Max Size (mm)	Nominal Size (mm)	Estimated Retained 40mm	Estimated PI (Material Passing 2mm)	Particle Shape	Particle Strength	Rock Type	Colour	USC Symbol	Density (Coarse Grained Soils)	Consistency (Fine Grained Soils)	Remarks, Samples
			Gravel	Sand												
COOLIBAH STATION MAIN ACCESS ROAD		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft	
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm	
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff	
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff	
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard	
		Other (specify)			< 2 MM	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable	
		SILTY SAND/CLAY				< 2 MM							SM / SC			
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft	
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
	Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm		
	Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff		
	Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff		
	Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard		
	Other (specify)				Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable		
										LATERITIC SANDSTONE						
RG 3 LOAM		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft	
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm	
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff	
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff	
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard	
		Other (specify)			< 2 MM	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable	
		SILTY SAND/CLAY				< 2 MM							SM / SC			
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft	
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
	Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm		
	Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff		
	Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff		
	Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard		
	Other (specify)				Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable		
										LATERITIC SANDSTONE						

Material Source No. RG2 AND SITE 24 LOAM
 VICTORIA HIGHWAY 184 - 220 KM
 Logged By: AB

Campbell Project Managers Pty Ltd - ABN 45 107 269 509 - 8 Quin Ct Alice Springs

Date: DECEMBER 2004

Hole No.	Depth (mm)	Soil Name (Texture)	Grain Size		Max Size (mm)	Nominal Size (mm)	Estimated Retained 40mm	Estimated PI (Material Passing 2mm)	Particle Shape	Particle Strength	Rock Type	Colour	USC Symbol	Density (Coarse Grained Soils)	Consistency (Fine Grained Soils)	Remarks, Samples
			Gravel	Sand												
RG2 LOAM	0-500	Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft	
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm	
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff	
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff	
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard	
		Other (specify)			< 2 MM	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable	
		SILTY SAND/CLAY			< 2 MM	Other (specify)	Other (specify)				Other (specify)	Other (specify)	Other (specify)			
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM / SC	Very loose	Very soft	
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm			
Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff			
Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff			
Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard			
Other (specify)				Other (specify)	Other (specify)	Other (specify)	Elongated		Other (specify)	Other (specify)	Other (specify)		Friable			
										LATERITIC SANDSTONE						

Hole No.	Depth (mm)	Soil Name (Texture)	Grain Size		Max Size (mm)	Nominal Size (mm)	Estimated Retained 40mm	Estimated PI (Material Passing 2mm)	Particle Shape	Particle Strength	Rock Type	Colour	USC Symbol	Density (Coarse Grained Soils)	Consistency (Fine Grained Soils)	Remarks, Samples
			Gravel	Sand												
SITE 24 LOAM	0 - 500	Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM	Very loose	Very soft	
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
		Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm	
		Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff	
		Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff	
		Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard	
		Other (specify)			< 2 MM	Other (specify)	Other (specify)		Elongated		Other (specify)	Other (specify)	Other (specify)		Friable	
		SILTY SAND/CLAY			< 2 MM	Other (specify)	Other (specify)				Other (specify)	Other (specify)	Other (specify)			
		Silty Sand	Coarse	Coarse	10 - 20	5 - 10	Nil	0 - 4	Angular	Weak	Sandstone	Grey	SM / SC	Very loose	Very soft	
		Silty gravel/sand	Medium	Medium	20 - 40	10 - 15	0 - 5	4 - 7	Subangular	Medium	Pea Gravel	Yellow	GM/SM	Loose	Soft	
Very sandy silty gravel	Fine	Fine	40 - 75	15 - 20	5 - 10	7 - 12	Subrounded	High	Siltstone	Orange	GM	Medium dense	Firm			
Sandy silty gravel			75 - 150	20 - 30	10 - 20	12 - 16	Rounded		Quartz	Brown	GP-GM-GC	Dense	Stiff			
Sandy gravel some silt			150 - 300	30 - 40	20 - 40	> 16	Well rounded		Quartzite	Red-brown	GM-GC	Very dense	Very stiff			
Sandy clayey gravel			Other (specify)	40 - 60	> 40	Other (specify)	Flaky		Calcrete	Mottled	GC		Hard			
Other (specify)				Other (specify)	Other (specify)	Other (specify)	Elongated		Other (specify)	Other (specify)	Other (specify)		Friable			
										LATERITIC SANDSTONE						