

APPENDIX "C"

LABORATORY TEST REPORTS

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD

JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km

REPORT #: LG04/1866 (1 OF 2)

LOCATION: SITE 20 – STOCKPILE 1

TEST METHODS: AS1289.2.1.1,3.1.1,3.1.2,3.2.1,3.3.1,3.4.1,3.6.1,1.2.1,Cl.6.4b,
AS1141.3.1 Cl. 6.9

DATE OF TEST: 04/01/05

REQUEST #: N/A

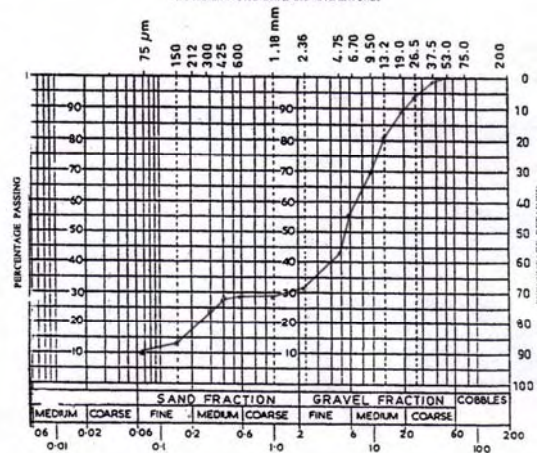
ORDER #: 86

Lab. Ref. Number	TN 40841	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	SANDSTONE/LATERITE	Chainage, Offset	SITE 20 – STOCKPILE 1

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	100		
37.5	98		
26.5	94		
19	89		
13.2	81		
9.5	70		
6.7	56		
4.75	43		
2.36	31		
1.18	28		
0.600	28		
0.425	27		
0.300	24		
0.150	13		
0.075	10		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.

AUSTRALIAN STANDARD SIEVE APERTURES



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	N.O		
Plastic Limit	N.O		
Plastic Index	N.P		
Linear Shrinkage	0.5		
PI*%<0.425mm	0		

PARTICLE SIZE - mm

Atterberg Limits Test Notes

Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO

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Laboratory No. 11869

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Approved Signatory
D. Tinning

Date: 11/01/05

CALIFORNIA BEARING RATIO TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB: PN358
PROJECT: VICTORIA HIGHWAY CH: 184 – 220km REPORT#: LG04/1866 (2 OF 2)
LOCATION: SITE 20 – STOCKPILE 1 TEST METHODS: AS 1289 2.1.1, 5.2.1, 6.1.1, 1.2.1
REQUEST# N/A ORDER# 86

GENERAL INFORMATION			
Lab. Ref Number	TN 40841	Field Identification	-
Sampled By/Date	CLIENT 20/12/04	Depth	N/A
Material	SANDSTONE/LATERITE	Location	SITE 20
Days Soaked/Unsoaked	4 DAYS SOAKED	Offset	STOCKPILE 1
Date Tested	04/01/05	Tested By	P. STACEY
Compaction Effort	100 % MODIFIED	Blows Per Layer	53
Material >19.0mm (%)	11	Material >19.0mm	EXCLUDED
Mass Of Surcharge (kg)	4.5		

TEST DATA			
Max. Dry Density (t/m ³)	2.29	Compaction Required (%)	100.0
Optimum Moist. Content (%)	6.9	Moist. Content Required (%)	100.0

RESULTS	BEFORE SOAKING	AFTER SOAKING
Density Ratio at Compaction (%)	100	
Moisture Ratio At Compaction (%)	107	
Dry Density (t/m ³)		2.28
Moisture Content - Top 30mm (%)		8.0
- Entire Depth (%)		7.5
Swell/Consolidation (%)		0.0
CALIFORNIAN BEARING RATIO 2.5mm		170
5.0mm		200



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D. Tinning

Date 11/01/05

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358
PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1867 (1 OF 2)
LOCATION: SITE 20 – STOCKPILE 2 TEST METHODS: AS1289.2.1.1,3.1.1,3.1.2,3.2.1,3.3.1,3.4.1,3.6.1,1.2,1.3,1.4,1.5,1.6,1.7,1.8,1.9,2.0,2.1,2.2,2.3,2.4,2.5,2.6,2.7,2.8,2.9,3.0,3.1,3.2,3.3,3.4,3.5,3.6,3.7,3.8,3.9,4.0,4.1,4.2,4.3,4.4,4.5,4.6,4.7,4.8,4.9,5.0,5.1,5.2,5.3,5.4,5.5,5.6,5.7,5.8,5.9,6.0,6.1,6.2,6.3,6.4,6.5,6.6,6.7,6.8,6.9,7.0,7.1,7.2,7.3,7.4,7.5,7.6,7.7,7.8,7.9,8.0,8.1,8.2,8.3,8.4,8.5,8.6,8.7,8.8,8.9,9.0,9.1,9.2,9.3,9.4,9.5,9.6,9.7,9.8,9.9,10.0,10.1,10.2,10.3,10.4,10.5,10.6,10.7,10.8,10.9,11.0,11.1,11.2,11.3,11.4,11.5,11.6,11.7,11.8,11.9,12.0,12.1,12.2,12.3,12.4,12.5,12.6,12.7,12.8,12.9,13.0,13.1,13.2,13.3,13.4,13.5,13.6,13.7,13.8,13.9,14.0,14.1,14.2,14.3,14.4,14.5,14.6,14.7,14.8,14.9,15.0,15.1,15.2,15.3,15.4,15.5,15.6,15.7,15.8,15.9,16.0,16.1,16.2,16.3,16.4,16.5,16.6,16.7,16.8,16.9,17.0,17.1,17.2,17.3,17.4,17.5,17.6,17.7,17.8,17.9,18.0,18.1,18.2,18.3,18.4,18.5,18.6,18.7,18.8,18.9,19.0,19.1,19.2,19.3,19.4,19.5,19.6,19.7,19.8,19.9,20.0,20.1,20.2,20.3,20.4,20.5,20.6,20.7,20.8,20.9,21.0,21.1,21.2,21.3,21.4,21.5,21.6,21.7,21.8,21.9,22.0,22.1,22.2,22.3,22.4,22.5,22.6,22.7,22.8,22.9,23.0,23.1,23.2,23.3,23.4,23.5,23.6,23.7,23.8,23.9,24.0,24.1,24.2,24.3,24.4,24.5,24.6,24.7,24.8,24.9,25.0,25.1,25.2,25.3,25.4,25.5,25.6,25.7,25.8,25.9,26.0,26.1,26.2,26.3,26.4,26.5,26.6,26.7,26.8,26.9,27.0,27.1,27.2,27.3,27.4,27.5,27.6,27.7,27.8,27.9,28.0,28.1,28.2,28.3,28.4,28.5,28.6,28.7,28.8,28.9,29.0,29.1,29.2,29.3,29.4,29.5,29.6,29.7,29.8,29.9,30.0,30.1,30.2,30.3,30.4,30.5,30.6,30.7,30.8,30.9,31.0,31.1,31.2,31.3,31.4,31.5,31.6,31.7,31.8,31.9,32.0,32.1,32.2,32.3,32.4,32.5,32.6,32.7,32.8,32.9,33.0,33.1,33.2,33.3,33.4,33.5,33.6,33.7,33.8,33.9,34.0,34.1,34.2,34.3,34.4,34.5,34.6,34.7,34.8,34.9,35.0,35.1,35.2,35.3,35.4,35.5,35.6,35.7,35.8,35.9,36.0,36.1,36.2,36.3,36.4,36.5,36.6,36.7,36.8,36.9,37.0,37.1,37.2,37.3,37.4,37.5,37.6,37.7,37.8,37.9,38.0,38.1,38.2,38.3,38.4,38.5,38.6,38.7,38.8,38.9,39.0,39.1,39.2,39.3,39.4,39.5,39.6,39.7,39.8,39.9,40.0,40.1,40.2,40.3,40.4,40.5,40.6,40.7,40.8,40.9,41.0,41.1,41.2,41.3,41.4,41.5,41.6,41.7,41.8,41.9,42.0,42.1,42.2,42.3,42.4,42.5,42.6,42.7,42.8,42.9,43.0,43.1,43.2,43.3,43.4,43.5,43.6,43.7,43.8,43.9,44.0,44.1,44.2,44.3,44.4,44.5,44.6,44.7,44.8,44.9,45.0,45.1,45.2,45.3,45.4,45.5,45.6,45.7,45.8,45.9,46.0,46.1,46.2,46.3,46.4,46.5,46.6,46.7,46.8,46.9,47.0,47.1,47.2,47.3,47.4,47.5,47.6,47.7,47.8,47.9,48.0,48.1,48.2,48.3,48.4,48.5,48.6,48.7,48.8,48.9,49.0,49.1,49.2,49.3,49.4,49.5,49.6,49.7,49.8,49.9,50.0,50.1,50.2,50.3,50.4,50.5,50.6,50.7,50.8,50.9,51.0,51.1,51.2,51.3,51.4,51.5,51.6,51.7,51.8,51.9,52.0,52.1,52.2,52.3,52.4,52.5,52.6,52.7,52.8,52.9,53.0,53.1,53.2,53.3,53.4,53.5,53.6,53.7,53.8,53.9,54.0,54.1,54.2,54.3,54.4,54.5,54.6,54.7,54.8,54.9,55.0,55.1,55.2,55.3,55.4,55.5,55.6,55.7,55.8,55.9,56.0,56.1,56.2,56.3,56.4,56.5,56.6,56.7,56.8,56.9,57.0,57.1,57.2,57.3,57.4,57.5,57.6,57.7,57.8,57.9,58.0,58.1,58.2,58.3,58.4,58.5,58.6,58.7,58.8,58.9,59.0,59.1,59.2,59.3,59.4,59.5,59.6,59.7,59.8,59.9,60.0,60.1,60.2,60.3,60.4,60.5,60.6,60.7,60.8,60.9,61.0,61.1,61.2,61.3,61.4,61.5,61.6,61.7,61.8,61.9,62.0,62.1,62.2,62.3,62.4,62.5,62.6,62.7,62.8,62.9,63.0,63.1,63.2,63.3,63.4,63.5,63.6,63.7,63.8,63.9,64.0,64.1,64.2,64.3,64.4,64.5,64.6,64.7,64.8,64.9,65.0,65.1,65.2,65.3,65.4,65.5,65.6,65.7,65.8,65.9,66.0,66.1,66.2,66.3,66.4,66.5,66.6,66.7,66.8,66.9,67.0,67.1,67.2,67.3,67.4,67.5,67.6,67.7,67.8,67.9,68.0,68.1,68.2,68.3,68.4,68.5,68.6,68.7,68.8,68.9,69.0,69.1,69.2,69.3,69.4,69.5,69.6,69.7,69.8,69.9,70.0,70.1,70.2,70.3,70.4,70.5,70.6,70.7,70.8,70.9,71.0,71.1,71.2,71.3,71.4,71.5,71.6,71.7,71.8,71.9,72.0,72.1,72.2,72.3,72.4,72.5,72.6,72.7,72.8,72.9,73.0,73.1,73.2,73.3,73.4,73.5,73.6,73.7,73.8,73.9,74.0,74.1,74.2,74.3,74.4,74.5,74.6,74.7,74.8,74.9,75.0,75.1,75.2,75.3,75.4,75.5,75.6,75.7,75.8,75.9,76.0,76.1,76.2,76.3,76.4,76.5,76.6,76.7,76.8,76.9,77.0,77.1,77.2,77.3,77.4,77.5,77.6,77.7,77.8,77.9,78.0,78.1,78.2,78.3,78.4,78.5,78.6,78.7,78.8,78.9,79.0,79.1,79.2,79.3,79.4,79.5,79.6,79.7,79.8,79.9,80.0,80.1,80.2,80.3,80.4,80.5,80.6,80.7,80.8,80.9,81.0,81.1,81.2,81.3,81.4,81.5,81.6,81.7,81.8,81.9,82.0,82.1,82.2,82.3,82.4,82.5,82.6,82.7,82.8,82.9,83.0,83.1,83.2,83.3,83.4,83.5,83.6,83.7,83.8,83.9,84.0,84.1,84.2,84.3,84.4,84.5,84.6,84.7,84.8,84.9,85.0,85.1,85.2,85.3,85.4,85.5,85.6,85.7,85.8,85.9,86.0,86.1,86.2,86.3,86.4,86.5,86.6,86.7,86.8,86.9,87.0,87.1,87.2,87.3,87.4,87.5,87.6,87.7,87.8,87.9,88.0,88.1,88.2,88.3,88.4,88.5,88.6,88.7,88.8,88.9,89.0,89.1,89.2,89.3,89.4,89.5,89.6,89.7,89.8,89.9,90.0,90.1,90.2,90.3,90.4,90.5,90.6,90.7,90.8,90.9,91.0,91.1,91.2,91.3,91.4,91.5,91.6,91.7,91.8,91.9,92.0,92.1,92.2,92.3,92.4,92.5,92.6,92.7,92.8,92.9,93.0,93.1,93.2,93.3,93.4,93.5,93.6,93.7,93.8,93.9,94.0,94.1,94.2,94.3,94.4,94.5,94.6,94.7,94.8,94.9,95.0,95.1,95.2,95.3,95.4,95.5,95.6,95.7,95.8,95.9,96.0,96.1,96.2,96.3,96.4,96.5,96.6,96.7,96.8,96.9,97.0,97.1,97.2,97.3,97.4,97.5,97.6,97.7,97.8,97.9,98.0,98.1,98.2,98.3,98.4,98.5,98.6,98.7,98.8,98.9,99.0,99.1,99.2,99.3,99.4,99.5,99.6,99.7,99.8,99.9,100.0,100.1,100.2,100.3,100.4,100.5,100.6,100.7,100.8,100.9,101.0,101.1,101.2,101.3,101.4,101.5,101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CALIFORNIA BEARING RATIO TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB: PN358
PROJECT: VICTORIA HIGHWAY CH: 184 – 220km REPORT#: LG04/1867 (2 OF 2)
LOCATION: SITE 20 – STOCKPILE 2 TEST METHODS: AS 1289 2.1.1, 5.2.1, 6.1.1, 1.2.1
REQUEST# N/A ORDER# 86

GENERAL INFORMATION			
Lab. Ref Number	TN 40842	Field Identification	-
Sampled By/Date	CLIENT 20/12/04	Depth	N/A
Material	SANDSTONE/LATERITE	Location	SITE 20
Days Soaked/Unsoaked	4 DAYS SOAKED	Offset	STOCKPILE 2
Date Tested	04/01/05	Tested By	P. STACEY
Compaction Effort	100 % MODIFIED	Blows Per Layer	53
Material >19.0mm (%)	12	Material >19.0mm	EXCLUDED
Mass Of Surcharge (kg)	4.5		

TEST DATA			
Max. Dry Density (t/m ³)	2.29	Compaction Required (%)	100.0
Optimum Moist. Content (%)	7.4	Moist. Content Required (%)	100.0

RESULTS	BEFORE SOAKING	AFTER SOAKING
Density Ratio at Compaction (%)	100	
Moisture Ratio At Compaction (%)	99	
Dry Density (t/m ³)		2.28
Moisture Content - Top 30mm (%)		10.0
- Entire Depth (%)		8.6
Swell/Consolidation (%)		0.0
CALIFORNIAN BEARING RATIO 2.5mm		180
5.0mm		150



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Laboratory No. 11869

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D. Tinning
Approved Signatory
D. Tinning

Date 11/01/05

LINTIN GEOTECHNICAL PTY LTD

ABN 31 077 518 168

P.O. Box 289
BERRIMAH N.T. 0828
Unit 1, 10 Butler Place,
BERRIMAH N.T. 0828

PH: (08) 8932 4022 FAX: (08) 8932 4243

RS 058 Rev 01

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD

JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km

REPORT #: LG04/1868 (1 OF 2)

LOCATION: SITE 21 – STOCKPILE

TEST METHODS: ASI289.2.1.1,3.1.1,3.1.2,3.2.1,3.3.1,3.4.1,3.6.1,1.2.1,CL6.4b, ASI141.3.1 CL 6.9

DATE OF TEST: 04/01/05

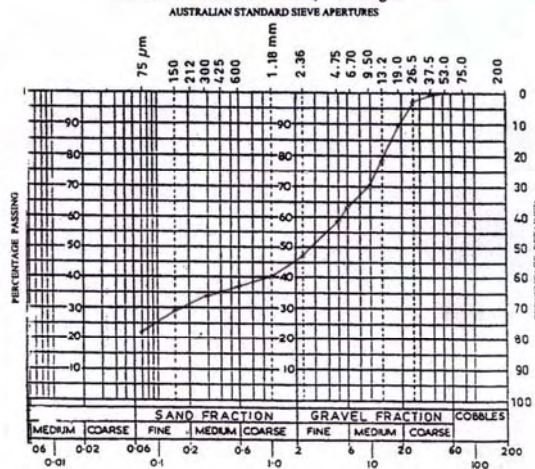
REQUEST #: N/A

ORDER #: 86

Lab.Ref.Number	TN 40843	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	CHERT GRAVEL	Chainage, Offset	SITE 21 – STOCKPILE

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	100		
37.5	99		
26.5	97		
19	90		
13.2	78		
9.5	70		
6.7	63		
4.75	58		
2.36	47		
1.18	40		
0.600	37		
0.425	35		
0.300	34		
0.150	29		
0.075	22		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	33		
Plastic Limit	17		
Plastic Index	16		
Linear Shrinkage	6.5		
PI*%<0.425mm	560		

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I.)	Air Dried/Wet Sieved
Size of LS Mould	254
Curling/Crumbling	NO



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D. Tinning

Date: 11/01/05

CALIFORNIA BEARING RATIO TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB: PN358
PROJECT: VICTORIA HIGHWAY CH: 184 – 220km REPORT#: LG04/1868 (2 OF 2)
LOCATION: SITE 21 – STOCKPILE TEST METHODS: AS 1289 2.1.1, 5.2.1, 6.1.1, 1.2.1
REQUEST# N/A ORDER# 86

GENERAL INFORMATION			
Lab. Ref Number	TN 40843	Field Identification	-
Sampled By/Date	CLIENT 20/12/04	Depth	N/A
Material	CHERT GRAVEL	Location	SITE 21
Days Soaked/Unsoaked	4 DAYS SOAKED	Offset	STOCKPILE
Date Tested	04/01/05	Tested By	P. STACEY
Compaction Effort	100 % MODIFIED	Blows Per Layer	53
Material >19.0mm (%)	10	Material >19.0mm	EXCLUDED
Mass Of Surcharge (kg)	4.5		

TEST DATA			
Max. Dry Density (t/m ³)	1.83	Compaction Required (%)	100.0
Optimum Moist. Content (%)	9.5	Moist. Content Required (%)	100.0

RESULTS	BEFORE SOAKING	AFTER SOAKING
Density Ratio at Compaction (%)	101	
Moisture Ratio At Compaction (%)	97	
Dry Density (t/m ³)		1.83
Moisture Content - Top 30mm (%)		17.7
- Entire Depth (%)		16.0
Swell/Consolidation (%)		0.0
CALIFORNIAN BEARING RATIO 2.5mm		120
5.0mm		100



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D. Tinning
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D. Tinning

Date 11/01/05

ABN 31 077 518 168

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BS 058 Rev 01

RS 058 Rev 01

SITE 22

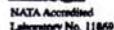
PSD Chart From AS1289 3.6.1, - 1995 fig 1.

AUSTRALIAN STANDARD SIEVE APERTURES



PARTICLE SIZE - 9000

Atterberg Limites Test Notes



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Date: 07/12/04

LINTIN GEOTECHNICAL PTY LTD
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RS003 Rev 03

CALIFORNIA BEARING RATIO TEST REPORT

CLIENT: RMG CONSULTANTS JOB: PN 207
PROJECT: VICTORIA HWY CH: 185.8 – 229.1km GRAVEL SEARCH REPORT#: LG04/1747 (2 OF 2)
LOCATION: EXISTING STOCKPILE AREA SOUTH OF COOLIBAH TURN OFF TEST METHODS: AS 1289 2.1.1, 5.2.1, 6.1.1, 1.2.1
REQUEST# N/A **SITE 22** ORDER# N/A

GENERAL INFORMATION			
Lab. Ref Number	TN 40641	Field Identification	1
Sampled By/Date	CLIENT 26/11/04	Depth	N/A
Material	PROPOSED B' COURSE	Location	EXISTING STOCKPILE AREA
Days Soaked/Unsoaked	4 DAY SOAKED	Offset	SOUTH OF COOLIBAH TURN OFF
Date Tested	06/12/04	Tested By	B. ALDRIDGE
Compaction Effort	100% MODIFIED	Blows Per Layer	53
Material >19.0mm (%)	30	Material >19.0mm	EXCLUDED
Mass Of Surcharge (kg)	4.5		

TEST DATA			
Max. Dry Density (t/m ³)	2.23	Compaction Required (%)	100.0
Optimum Moist. Content (%)	7.3	Moist. Content Required (%)	100.0

RESULTS	BEFORE SOAKING	AFTER SOAKING
Density Ratio at Compaction (%)	100	
Moisture Ratio At Compaction (%)	92	
Dry Density (t/m ³)		2.24
Moisture Content - Top 30mm (%)		8.5
- Entire Depth (%)		7.8
Swell/Consolidation (%)		0.0
CALIFORNIAN BEARING RATIO 2.5mm		240
5.0mm		240



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A. Lindsey

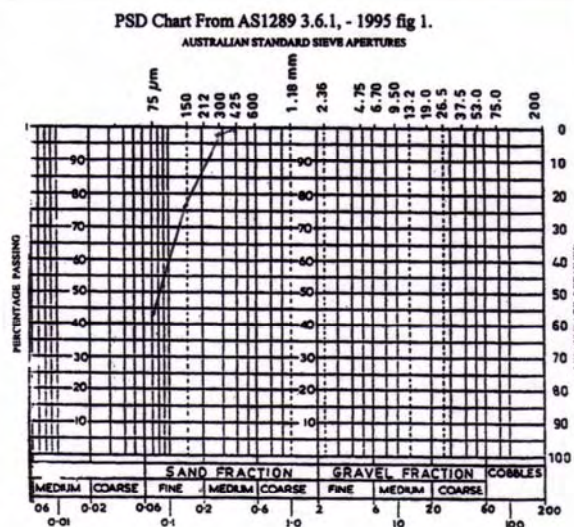
Date 07/12/04

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358
PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1865
LOCATION: SITE RG2 – VIC HIGHWAY ACCESS TRACK TEST METHODS: AS1289.2.1.1.3.1.1.3+2.3.2.1.3.3.1.3.4.1.3.6.1.1.2+4.1.6.4b, AS1141.3-1.1.6.9
DATE OF TEST: 30/12/04 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40840	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	LOAM	Chainage, Offset	SITE RG2 – VIC HWAY ACCESS TRACK

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	-		
1.18	-		
0.600	-		
0.425	100		
0.300	98		
0.150	76		
0.075	44		



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	24		
Plastic Limit	18		
Plastic Index	6		
Linear Shrinkage	3.0		
PI*%<0.425mm	600		

Atterberg Limits Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO



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A. Lindsey

Date: 04/01/05

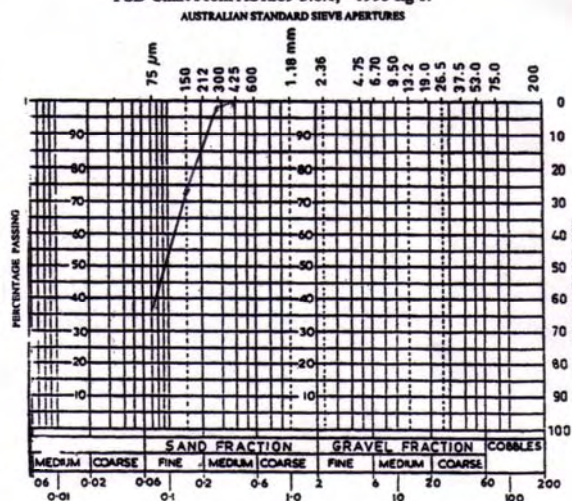
CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358
PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1860
LOCATION: SITE RG3-LINK RD TO COOLIBAH ACCESS TEST METHODS: AS1289.2.1.1.3.1.1.3.1.3.2.1.3.3.1.3.4.1.3.6.1.1.2.4.4.6.4b, AS1141.3.1.1.3.1.1.3.1.1.3.2.1.3.3.1.3.4.1.3.6.1.1.2.4.4.6.4b, AS1141.3.1.1.3.1.1.3.1.1.3.2.1.3.3.1.3.4.1.3.6.1.1.2.4.4.6.4b
DATE OF TEST: 29/12/04 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40835	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	LOAM	Chainage, Offset	SITE RG3-LINK RD TO COOLIBAH AC

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	-		
1.18	-		
0.600	-		
0.425	100		
0.300	98		
0.150	74		
0.075	37		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	27		
Plastic Limit	18		
Plastic Index	9		
Linear Shrinkage	4.5		
PI*%<0.425mm	900		

PARTICLE SIZE - mm

Atterberg Limits Test Notes

Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	254
Curling/Crumbling	NO



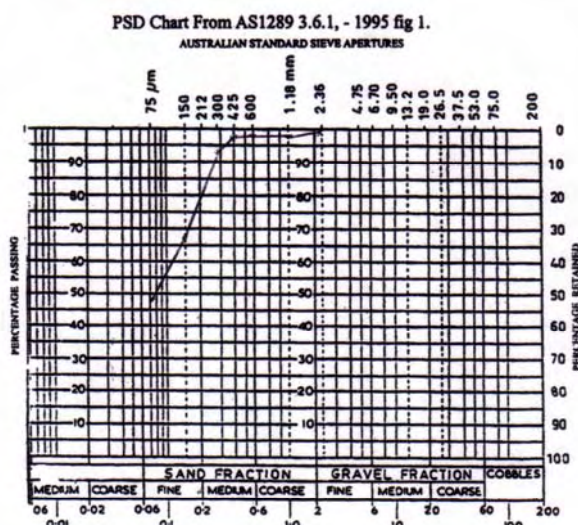
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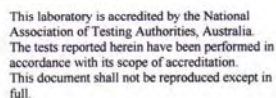
CLIENT:	CAMPBELL PROJECT MANAGERS PTY LTD	JOB #:	PN 358
PROJECT:	VICTORIA HIGHWAY 184 – 220km	REPORT #:	LG04/1862
LOCATION:	SITE RG7-COOLIBAH ACCESS	TEST METHODS:	AS1289.2.1,1.3.1.1,1.3.1.2,3.2.1.3,3.1.3.4,1.3.6.1,1.2.1,C16.4b, AS1141.3.1,C1.6.9
DATE OF TEST:	29/12/04	REQUEST #:	N/A
		ORDER #:	- 86

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	100		
1.18	99		
0.600	99		
0.425	98		
0.300	94		
0.150	68		
0.075	49		



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	29		
Plastic Limit	15		
Plastic Index	14		
Linear Shrinkage	7.0		
PI *%<0.425mm	1372		

PARTICLE SIZE - mm	
Atterberg Limits Test Notes	
Prep Method (P.1)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO



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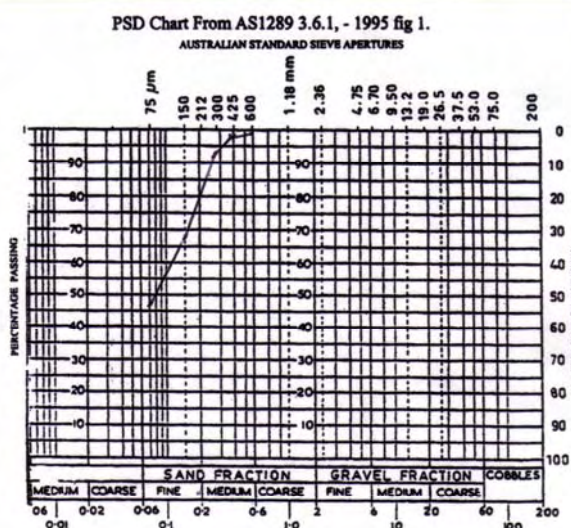
Date: 04/01/05

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358
PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1861
LOCATION: SITE RG7-COOLIBAH STN MAIN ACCESS TEST METHODS: AS1289.2.1.1.3.1.1.3+2.3.2.1.3.3.1.3.4.1.3.6.1.1+2.4.1.6.4.6, AS1441.3.1+Cl.6.9
DATE OF TEST: 29/12/04 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40836 SITE 25	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	LOAM	Chainage, Offset	SITE RG7-COOLIBAH STN MAIN ACC

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	100		
1.18	100		
0.600	100		
0.425	99		
0.300	94		
0.150	68		
0.075	46		



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	24		
Plastic Limit	16		
Plastic Index	8		
Linear Shrinkage	3.0		
PI*%<0.425mm	792		

Atterberg Limits Test Notes	
Prep Method (P.I.)	Air Dried/Wet Sieved
Size of LS Mould	254
Curling/Crumbling	NO



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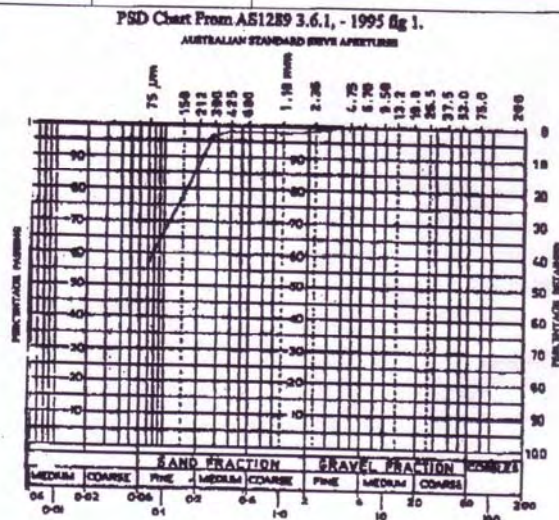
ABN 31 077 518 168

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RS 058 Rev 01

CLIENT:	RMG GEOTECHNICAL CONSULTANTS		JOB #:	PN207
PROJECT:	VICTORIA HIGHWAY		REPORT #:	LG04/1763
LOCATION:	VICTORIA R. LOAM COOLBAH STATION ACCESS ROAD.	TEST METHODS:	AS1289.2.1.1,3.1.1,2+2,3.2.1,3.3.1,3.4.1,3.6.1,1+1,3.6.4b, A6144.3+G1-4-0	
DATE OF TEST:	08/12/04	REQUEST #:	N/A	ORDER #:
				N/A

Lab.Ref.Number	TN 40564	Sampled by & Date	G. CLARKE 6/12/04
Field Identification	-	Depth	N/S
Material	LOAM	Chainage, Offset	VICTORIA R. LOAM COOLIBAH STATION ACCESS ROAD.

Particle Size Distribution		Specification *	
Sieve Size mm	Result % Passing		
75			
53			
37.5			
26.5			
19			
13.2			
9.5			
6.7			
4.75	100		
2.36	99		
1.18	98		
0.600	98		
0.425	98		
0.300	96		
0.150	78		
0.075	58		



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	30		
Plastic Limit	15		
Plastic Index	15		
Linear Shrinkage	8.0		
PI*%<0.425mm	1470		

Atterberg Limits Test Notes	
Prep Method (P.I.)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO



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Date: 08/12/04

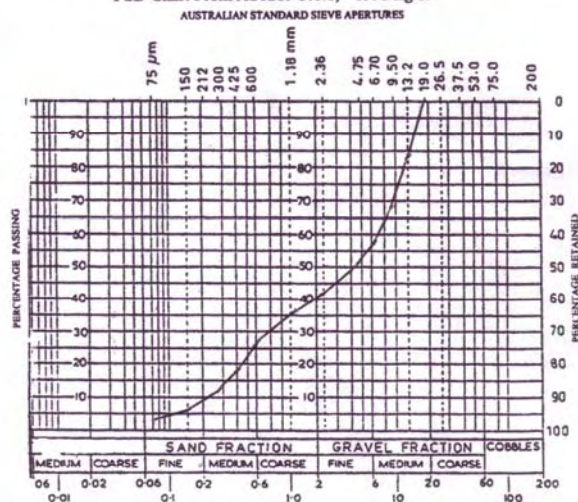
CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358
PROJECT: VICTORIA HIGHWAY 185 – 229km REPORT #: LG04/1896A Replaces LG04/1896
LOCATION: 5% TN 40835 – SITE RG3 LINK ROAD TO COOLABAH ACCESS TEST METHODS: AS1289.2.1.1, 3.1.1, 3.1.3 + 2.3.2.1, 3.3.1, 3.4.1, 3.6.1, 3.2 + 3.1.6.4b, AS1141.3 + 3.1.6.9
DATE OF TEST: 06/01/05 REQUEST #: N/A ORDER #: N/A

Lab.Ref.Number	TN 40889	Sampled by & Date	CLIENT 30/12/04
Field Identification	1	Depth	N/A
Material	CRUSHED RIVER GRAV/LOAM	Chainage, Offset	5% TN 40835 – SITE RG3 LINK ROAD TO COOLABAH ACCESS

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	100		
13.2	84		
9.5	69		
6.7	58		
4.75	51		
2.36	41		
1.18	35		
0.600	26		
0.425	18		
0.300	12		
0.150	6		
0.075	4		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	N.O		
Plastic Limit	N.O		
Plastic Index	N.P		
Linear Shrinkage	0.0		
PI*%<0.425mm	0		

Atterberg Limits Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO



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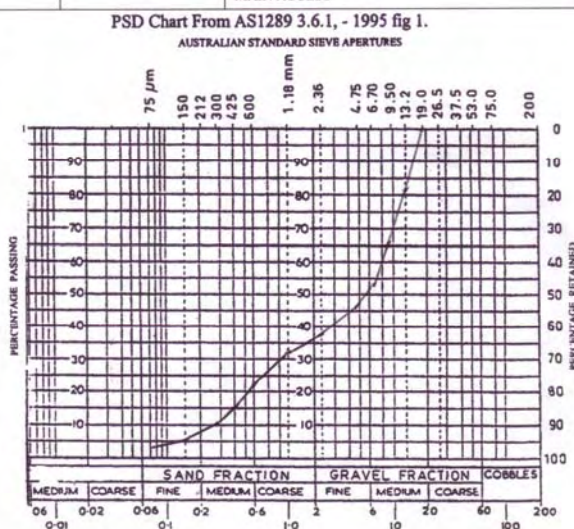
Approved Signatory
A. Lindsey

Date: 07/02/05

CLIENT:	CAMPBELL PROJECT MANAGERS PTY LTD	JOB #:	PN 358
PROJECT:	VICTORIA HIGHWAY 185 – 229km	REPORT #:	LG04/1897A Replaces LG04/1897
LOCATION:	5% TN 40836 – SITE RG7 COOLABAH STATION MAIN ACCESS	TEST METHODS:	AS1289.2.1.1.3.1.1, 3-1.3.2.1.3.3.1.3.4.1.3.6.1, 3-1.3.6.4.6, AS1441.3.1-Cl-6.9
DATE OF TEST:	05/01/05	REQUEST #:	N/A
		ORDER #:	N/A

Lab.Ref.Number	TN 40890	Sampled by & Date	CLIENT 30/12/04
Field Identification	2	Depth	N/A
Material	CRUSHED RIVER GRAV/LOAM	Chainage, Offset	5% TN 40836 – SITE RG7 COOLABAH STATION MAIN ACCESS

Particle Size Distribution		Specification*
Sieve Size mm	Result % Passing	
75	-	
53	-	
37.5	-	
26.5	-	
19	100	
13.2	82	
9.5	65	
6.7	53	
4.75	46	
2.36	37	
1.18	31	
0.600	22	
0.425	15	
0.300	10	
0.150	5	
0.075	3	



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	N.O		
Plastic Limit	N.O		
Plastic Index	N.P		
Linear Shrinkage	0.0		
PI % < 0.425mm	0		

PARTICLE SIZE - mm	
Atterberg Limits Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO



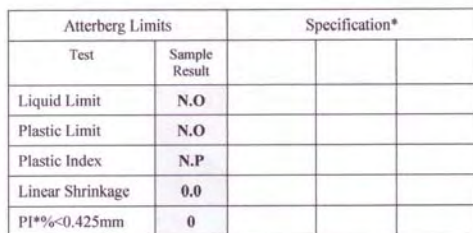
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Date: 07/02/05

CLIENT:	CAMPBELL PROJECT MANAGERS PTY LTD			JOB #:	PN 358
PROJECT:	VICTORIA HIGHWAY 185 – 229km			REPORT #:	LG04/1898A Replaces LG04/1898
LOCATION:	5% TN 40838 – SITE RG7 CROC FARM ACCESS	TEST METHODS:	ASI289.2.1.1,3.1.1,3.1.3,2.1.3,3.1,3.4.1,3.6.1,1.2,1.6,4.6,4.8,4.14,4.13,4.6.9		
DATE OF TEST:	05/01/05	REQUEST #:	N/A	ORDER #:	N/A

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	100		
13.2	80		
9.5	64		
6.7	53		
4.75	46		
2.36	37		
1.18	32		
0.600	24		
0.425	17		
0.300	11		
0.150	5		
0.075	3		



PARTICLE SIZE - mm	
Atterberg Limits Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO



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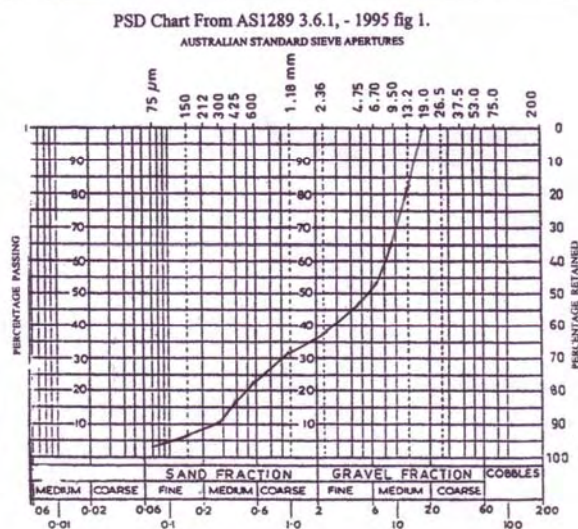
Date: 07/02/05

CLASSIFICATION TEST REPORT

CLIENT:	CAMPBELL PROJECT MANAGERS PTY LTD	JOB #:	PN 358
PROJECT:	VICTORIA HIGHWAY 185 – 229km	REPORT #:	LG04/1899A Replaces LG04/1899
LOCATION:	5 % TN 40840 – SITE RG7 VIC HWY ACCESS TRACK	TEST METHODS:	AS1289.2.1.1.3.1.3+2.3.2.1.3.3.1.3.4.1.3.6.1. 1.2.1.1.3.6.4.6. AS1443.1.1.1.1.1-6.9
DATE OF TEST:	05/01/05	REQUEST #:	N/A
		ORDER #:	N/A

Lab.Ref.Number	TN 40892	Sampled by & Date	CLIENT 30/12/04
Field Identification	4	Depth	N/A
Material	CRUSHER RIVER GRAVEL/LOAM MIX	Chainage, Offset	5 % TN 40840 – SITE RG7 VIC HWY ACCESS TRACK

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	100		
13.2	82		
9.5	65		
6.7	54		
4.75	47		
2.36	38		
1.18	32		
0.600	23		
0.425	16		
0.300	10		
0.150	6		
0.075	4		



Atterberg Limits		Specification*	
Test	Sample Result		
Liquid Limit	N.O		
Plastic Limit	N.O		
Plastic Index	N.P		
Linear Shrinkage	0.0		
PI*%<0.425mm	0		

PARTICLE SIZE - mm	
Atterberg Limits Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	254
Curling/Crumbling	NO



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CLASSIFICATION TEST REPORT

CLIENT:	CAMPBELL PROJECT MANAGERS	JOB	PN 358
PROJECT:	VIC HWY 184 – 220km	REPORT#	LG05/0065
LOCATION:	5% TN 40835 SITE RG3 LINK ROAD TO COOLABAH ACCESS	TEST METHODS:	AS1289.2.1.1.3.1.1.3.1.2.3.2.1.3.3.1.3.4.1.3.6.1.1.2.1.1. ENR-AS1141.3.1.CE-6.9
TESTED BY	M.S.	DATE OF TEST	04/02/05
		REQUEST#	N/A
		ORDER#	N/A

RETEST OF TN 40889

Lab./Ref. Number	TN 40971	Sampled By & Date	LAB 03/02/05
Field Identification	2	Depth	N/A
Material	RIVER GRAVEL / LOAM MIX	Chainage	5% TN 40835 SITE RG3
		Offset	LINK ROAD TO COOLABAH ACCESS

	Sample Result	NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q			
Sieve Size (mm)_	% Passing	Type 1, % Passing	Type 2, % Passing	Type 3, % Passing	Type 4, % Passing
152.4					
75		100			100
53					
37.5		80-100	100		80-100
26.5					
19		50-80	70-100	100	60-100
13.2					
9.5		35-65	50-80	70-100	50-95
6.7					
4.75		25-50	35-65	50-80	40-80
2.36		15-40	25-50	35-65	30-65
1.18					
0.600					
0.425		7-20	10-30	15-35	20-50
0.300					
0.150					
0.075		3-13	4-16	6-20	5-25

		NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q			
Atterberg Limits	Sample Result	Sealed Basecourse	Unsealed Base	Shoulder Material	
Liquid Limit	N.O	0-25	0-30	0-35	
Plastic Limit	N.O				
Plastic Index	N.P	1-6	1-10	4-12	
Linear Shrinkage	0.0	0-3	1-5	2-8	
PI%<0.425mm	-	0-180	0-400	0-400	
Size of L.S Mould	250				
Curling/Crumbling	NO				
Prep. Method (P.I)	Wet Sieved / Air Dried				



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Date 07/02/05

CLASSIFICATION TEST REPORT

[illegible]

Lab. Ref. Number	TN 40971	SITE 25	Sampled By & Date	LAB 03/02/05
Field Identification	2		Depth	N/A
Material	RIVER GRAVEL / LOAM MIX		Chainage	5% TN 40836 SITE RG7
			Offset	COOLABAH STATION MAIN ACCESS

	Sample Result	NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q			
Sieve Size (mm)_	% Passing	Type 1, % Passing	Type 2, % Passing	Type 3, % Passing	Type 4, % Passing
152.4					
75		100			100
53					
37.5		80-100	100		80-100
26.5					
19		50-80	70-100	100	60-100
13.2					
9.5		35-65	50-80	70-100	50-95
6.7					
4.75		25-50	35-65	50-80	40-80
2.36		15-40	25-50	35-65	30-65
1.18					
0.600					
0.425		7-20	10-30	15-35	20-50
0.300					
0.150					
0.075		3-13	4-16	6-20	5-25

		NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q			
Atterberg Limits	Sample Result	Sealed Basecourse	Unsealed Base	Shoulder Material	
Liquid Limit	N.O	0-25	0-30	0-35	
Plastic Limit	N.O				
Plastic Index	N.P	1-6	1-10	4-12	
Linear Shrinkage	0.0	0-3	1-5	2-8	
PI*%<0.425mm	-	0-180	0-400	0-400	
Size of L.S Mould	250				
Curling/Crumbling	NO				
Prep. Method (P.I)	Wet Sieved / Air Dried				



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Date 07/02/05

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB PN 358
PROJECT: VICTORIA HWY BEDDING TRIALS REPORT# LG05/0105
LOCATION: RG7 CRUSHED RIVER GRAVEL TN TEST METHODS: AS1289,2.1.1,3.1.1,3.1.2,3.2.1,3.3.1,3.4.1,3.6.1,3.6.2,
40692 95% LOAM TN 40837 5% ~~CL6.4,ASH14.1,CL-6.9~~
TESTED BY M.S & M.L DATE OF TEST 21/02/05 REQUEST# N/A ORDER# N/A

LOAM - RG7 COOLIBAH ACCESS

Lab .Ref. Number	TN 41038	Sampled By & Date	CLIENT 12/02/05
Field Identification	1	Depth	N/A
Material	PROP BASECOURSE	Chainage	CRUSHED RIVER GRAVEL/LOAM
		Offset	N/A

Sieve Size (mm)	Sample Result % Passing	NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q			
		Type 1, % Passing	Type 2, % Passing	Type 3, % Passing	Type 4, % Passing
152.4	-				
75	-	100			100
53	-				
37.5	-	80-100	100		80-100
26.5	-				
19	-	50-80	70-100	100	60-100
13.2	-				
9.5	-	35-65	50-80	70-100	50-95
6.7	-				
4.75	-	25-50	35-65	50-80	40-80
2.36	-	15-40	25-50	35-65	30-65
1.18	-				
0.600	-				
0.425	-	7-20	10-30	15-35	20-50
0.300	-				
0.150	-				
0.075	-	3-13	4-16	6-20	5-25

Atterberg Limits	Sample Result	NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q		
		Sealed Basecourse	Unsealed Base	Shoulder Material
Liquid Limit	N/P	0-25	0-30	0-35
Plastic Limit	N/P			
Plastic Index	N/P	1-6	1-10	4-12
Linear Shrinkage	0.5	0-3	1-5	2-8
PI*%<0.425mm	N/A	0-180	0-400	0-400
Size of L.S Mould	254			
Curling/Crumbling	NO			
Prep. Method (P.1)	Wet Sieved / Air Dried			



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Date 22/02/05

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB PN 358
PROJECT: VICTORIA HWY BEDDING TRIALS REPORT# LG05/0106
LOCATION: CRUSHED RIVER GRAVEL TN 40692 TEST METHODS: AS1289, 2.1, 1.3, 1.1, 3.1, 2.3, 2.1, 3.3, 1.3, 4.1, 3.6, 1.1, 2.4,
90% LOAM TN 40835 10% ~~6.4, 6.8, 11.3, 1.1, 6.9~~
TESTED BY M.S & M.L DATE OF TEST 21/02/05 REQUEST# N/A ORDER# N/A
LOAM - RG3 LINK ROAD TO COOLIBAH ACCESS

Lab .Ref. Number	TN 41039	Sampled By & Date	CLIENT 12/02/05
Field Identification	2	Depth	N/A
Material	PROP BASECOURSE	Chainage	CRUSHED RIVER GRAVEL/LOAM
		Offset	N/A

Sieve Size (mm)	Sample Result % Passing	NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q			
		Type 1, % Passing	Type 2, % Passing	Type 3, % Passing	Type 4, % Passing
152.4	-				
75	-	100			100
53	-				
37.5	-	80-100	100		80-100
26.5	-				
19	-	50-80	70-100	100	60-100
13.2	-				
9.5	-	35-65	50-80	70-100	50-95
6.7	-				
4.75	-	25-50	35-65	50-80	40-80
2.36	-	15-40	25-50	35-65	30-65
1.18	-				
0.600	-				
0.425	-	7-20	10-30	15-35	20-50
0.300	-				
0.150	-				
0.075	-	3-13	4-16	6-20	5-25

NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q					
Atterberg Limits	Sample Result	Sealed Basecourse	Unsealed Base	Shoulder Material	
Liquid Limit	20	0-25	0-30	0-35	
Plastic Limit	18				
Plastic Index	2	1-6	1-10	4-12	
Linear Shrinkage	1.5	0-3	1-5	2-8	
PI*%<0.425mm	N/A	0-180	0-400	0-400	
Size of L.S Mould	250				
Curling/Crumbling	NO				
Prep. Method (P.1)	Wet Sieved / Air Dried				



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Approved Signatory
A. Lindsey

Date 22/02/05

CLASSIFICATION TEST REPORT

CLIENT:	CAMPBELL PROJECT MANAGERS			JOB	PN 358		
PROJECT:	VICTORIA HWY BEDDING TRIALS			REPORT#	LG05/0107		
LOCATION:	CRUSHED RIVER GRAVEL TN 40692 90% LOAM TN 40836 10%			TEST METHODS:	ASI289.11.1.3.1.1.3+2.3.2.1.3.3.1.3.4.1.3.6.1.1.2.1. CL-4 ASI141.3.1.1.1.1.1		
TESTED BY	M.S & M.L	DATE OF TEST	21/02/05	REQUEST#	N/A	ORDER#	N/A

LOAM - SITE 25 COOLBAH STN MAIN ACCESS RD

Lab .Ref. Number	TN 41040	Sampled By & Date	CLIENT 12/02/05
Field Identification	3	Depth	N/A
Material	PROP BASECOURSE	Chainage	CRUSHED RIVER GRAVEL/LOAM
		Offset	N/A

	Sample Result	NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q			
Sieve Size (mm)_	% Passing	Type 1, % Passing	Type 2, % Passing	Type 3, % Passing	Type 4, % Passing
152.4	-				
75	-	100			100
53	-				
37.5	-	80-100	100		80-100
26.5	-				
19	-	50-80	70-100	100	60-100
13.2	-				
9.5	-	35-65	50-80	70-100	50-95
6.7	-				
4.75	-	25-50	35-65	50-80	40-80
2.36	-	15-40	25-50	35-65	30-65
1.18	-				
0.600	-				
0.425	-	7-20	10-30	15-35	20-50
0.300	-				
0.150	-				
0.075	-	3-13	4-16	6-20	5-25

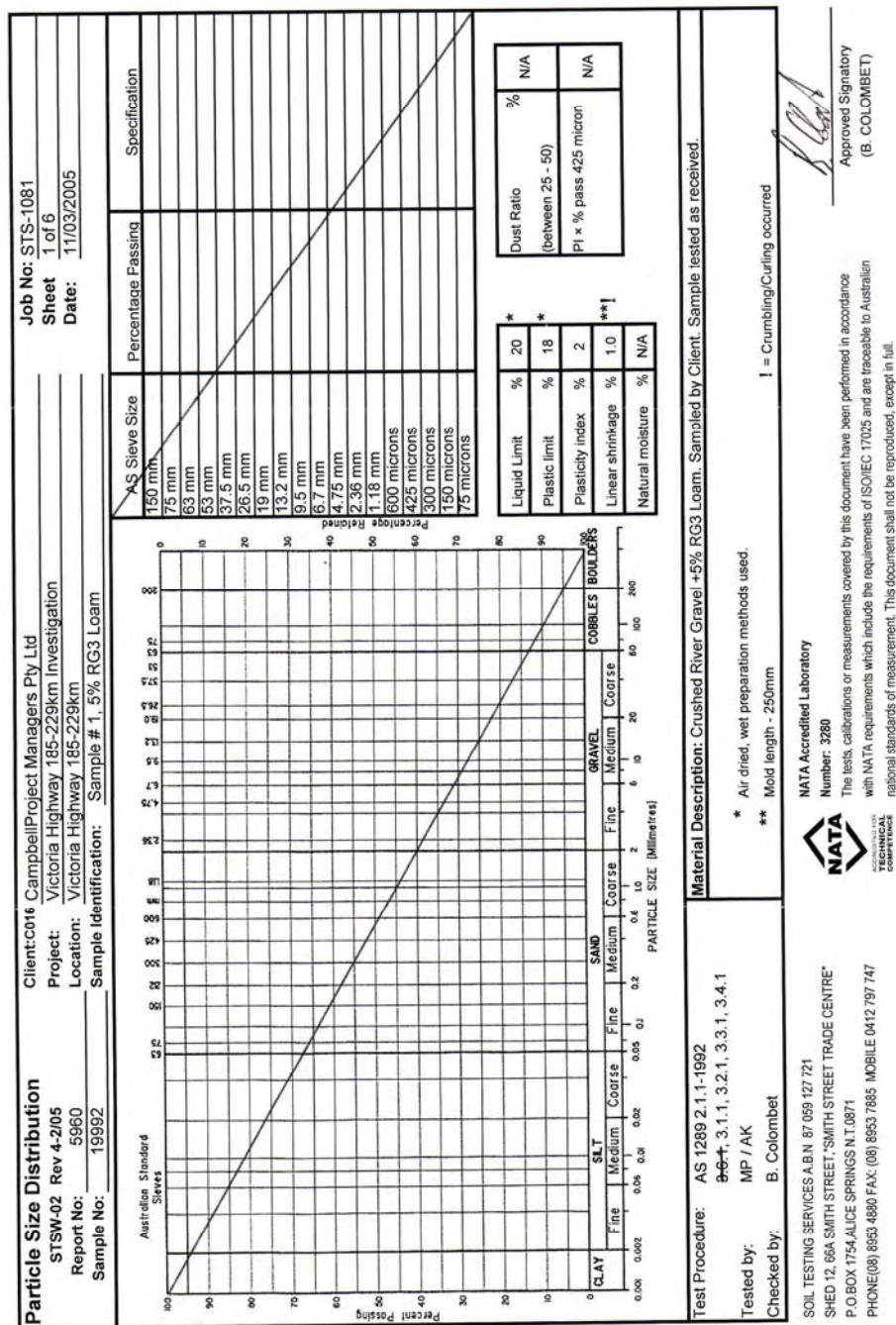
		NT Dept of T & W Standard Technical Clauses For Roadworks 93/6Q			
Atterberg Limits	Sample Result	Sealed Basecourse	Unsealed Base	Shoulder Material	
Liquid Limit	19	0-25	0-30	0-35	
Plastic Limit	18				
Plastic Index	1	1-6	1-10	4-12	
Linear Shrinkage	1.0	0-3	1-5	2-8	
PI*%<0.425mm	N/A	0-180	0-400	0-400	
Size of L.S Mould	250				
Curling/Crumbling	NO				
Prep. Method (P.I)	Wet Sieved / Air Dried				



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Approved Signatory
A. Lindsey

Date 22/02/05



! = Grumbling/Curling-occurred

