# Appendix A – Test Pit Logs



Project: 3 Parks Development

**Location:** Wanaka

Client: Mitchell Partnerships
Contractor: Nichols Landscaping

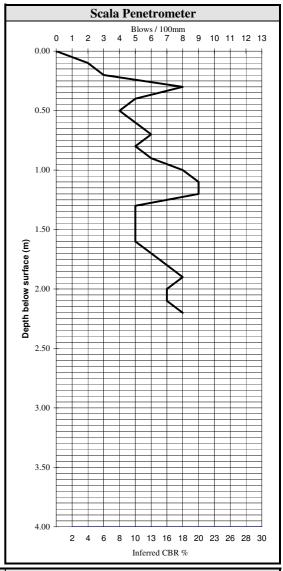
Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 1

Project No :	6CWM03.46	006DE
Lab Dof No	OPI   D6/14	

Client Ref No:

Depth	Geological Description
(mm)	
0-200	Light brown silty Topsoil with some gravel
200- 400	Fine to medium GRAVEL; grey. Loosely packed; rounded to sub-rounded schist gravel.
400- 500	Coarse GRAVEL; grey. Loosely packed; rounded to subrounded schist gravel.
500- 1000	Medium GRAVEL; grey. Loosely packed; rounded to subrounded schist gravel.
1000- 3000	Medium to coarse GRAVEL; grey. Loosely packed; rounded to sub-rounded, with schist slabs up to 300mm in size
3000	end of test pit - hole collapsed No groundwater observed, hole damp



Sample recovered at :
Depth at which scala penetrometer started :

Test Methods
Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

0 metres

Inferred CBR values taken from Austroads pavement design manual 1992 Sampling Method: NZS 4407 :1991,Part 2.4.2

Notes
IANZ Accreditation does not apply to inferred CBR values or depths gretaer than 1.5 metres

Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 1

Project No : 6CWM03.46 006DD Lab Ref No : 0PU.D6/14

Client Ref No:





Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full

**Project:** 3 Parks Development

**Location:** Wanaka

**Client: Mitchell Partnerships Nichols Landscaping Contractor:** 

Sampled by: Mark Darcy and Kim Martelli

12/10/06 **Date Sampled:** Pit number: **Test Pit 2** 

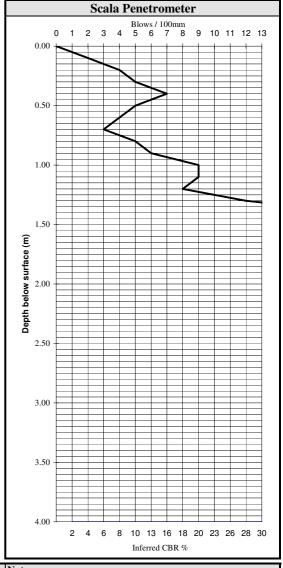


Project No: 6CWM03.46 006DD

OPU.D6/14 Lab Ref No:

Client Ref No:

Depth (mm)	Geological Description
	Dark brown topsoil
100- 900	Sandy fine to medium GRAVEL. Loosely packed; sub-rounded to angular schist gravel.
900- 1200	Sandy coarse GRAVEL. Loose packed; sub-rounded to angular schist gravel.
1200- 3000	Sandy coarse GRAVEL. Dense and compactly packed; with angular and sub-rounded schist slabs up to 1000mm (slabs unbreakable with digger, one 2000mm).
	End of test pit - holes collapsing in No groundwater observed, hole damp
g 1	ecovered at :



Depth at which scala penetrometer started:

**Test Methods** 

0 metres

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2 Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

Notes IANZ Accreditation does not apply to

inferred CBR values or depths gretaer than 1.5 metres

12/10/06 Date tested: 14/11/06 Date reported:

Sampling and testing is covered by IANZ Accreditation

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 2

Project No: 6CWM03.46 006DD

Lab Ref No:

OPU.D6/14

Client Ref No:





Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full

Project: 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 3

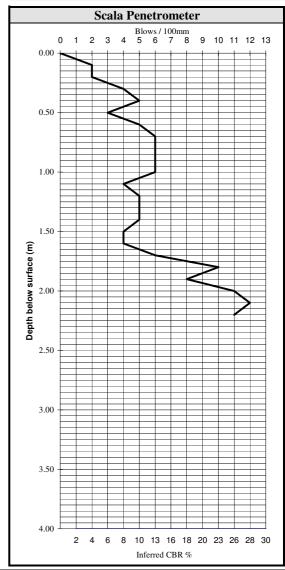


Project No : 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:

Depth Geological Description (mm)
0-100 Sandy fine TOPSOIL brown.
100- Fine to coarse GRAVEL. Loosely packed; well graded;
2000 bedded; rounded to sub-rounded schist gravel.
End of test pit - hole collapsing
No groundwater observed, hole damp
Sample recovered at:  Depth at which scala penetrometer started: 0 metres



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

Notes
IANZ Accreditation does not apply to inferred CBR values or depths gretaer than 1.5 metres

Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

**Client: Mitchell Partnerships Contractor: Nichols Landscaping** 

Mark Darcy and Kim Martelli Sampled by:

**Date Sampled:** 12/10/06 **Test Pit 3** Pit number:

6CWM03.46 006DD Project No: OPU.D6/14

Lab Ref No:

Client Ref No:





12/10/06 Date tested: 14/11/06 Date reported:

This report may only be reproduced in full

Project: 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 4

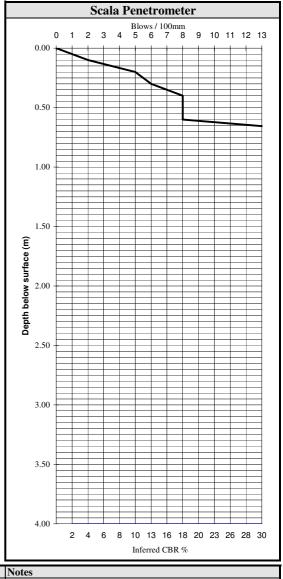


Project No: 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:

Depth (mm)	Geological Description
	Sandy topsoil, brown. With some gravel.
500- 1000	Sandy coarse GRAVEL; dark brown. Loosely packed, rounded.
100- 1300	Very fine SAND; grey. Densely packed.
1300- 1600	Medium to coarse SAND; grey. Densely packed; with coarse gravel; rounded.
1600- 2900	Sandy GRAVEL of various sizes. Most 100-150mm. end of test pit
	No groundwater observed, hole damp
	ecovered at :



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

0 metres

IANZ Accreditation does not apply to inferred CBR values or depths gretaer than 1.5 metres

Date tested: 12/10/06 Date reported: 14/11/06

Depth at which scala penetrometer started:

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 4

Project No : 6CWM03.46 006DD Lab Ref No : 0PU.D6/14

Client Ref No:





Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full

Project: 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 5

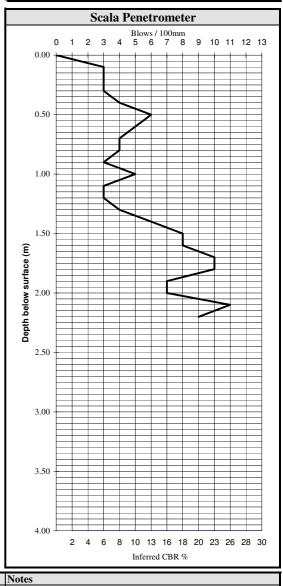


Project No : 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:

Depth	Geological Description	
(mm)	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
0-200	Sandy topsoil; brown. With some gravel.	
200- 2700	Medium to coarse GRAVEL, grey. Loosely packed; clean; uniform; well-sorted; bedding. Some larger schist boulders up to 200mm.	
	End of test pit - hole collapsing No groundwater observed, hole damp	
_	Sample recovered at:	
Depth at	which scala penetrometer started: 0 metres	



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

Date tested: 12/10/06 Date reported: 14/11/06 inferred CBR values or depths gretaer than 1.5 metres

IANZ Accreditation does not apply to

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

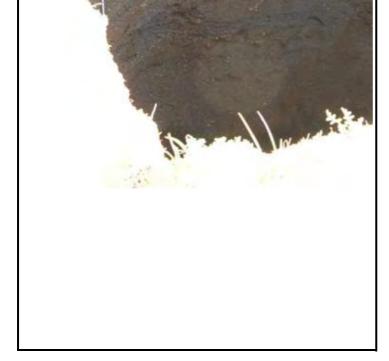
Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 5

Project No : 6CWM03.46 006DD Lab Ref No : 0PU.D6/14

Lab Ref No : Client Ref No :





Date tested: 12/10/06
Date reported: 14/11/06
This report may only be reproduced in full

Project: 3 Parks Development

**Location:** Wanaka

Client : Mitchell Partnerships
Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 6

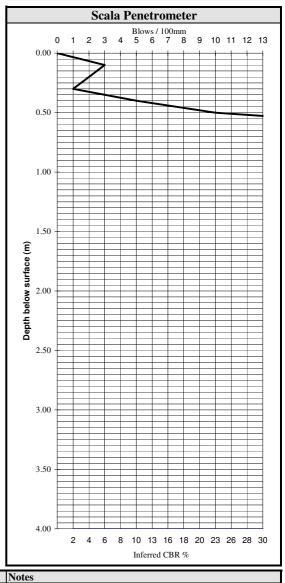


Project No : 6CWM03.46 006DD

Lab Ref No: OPU.D6/14

Client Ref No:

Depth	Geological Description	
( <b>mm</b> ) 0-200	Sandy, fine topsoil; dark brown.	
0 200	Sandy, into topoon, dank brown.	
200- 1000	Fine SAND; brown. Loosely packed; poorly sorted; rounded to sub-rounded schist gravel up to 20mm. Some large angular schist boulders up to 500mm in size.	
1000- 3000	Silty SAND; grey/brown. Densely packed; with rounded gravel and some schist slabs.	
	End of test pit No groundwater observed, hole damp	
•	Sample recovered at:	
Depth at	which scala penetrometer started: 0 metres	



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402: 1988, Test 6.5.2

Inferred CBR values taken from Austroads pavement design manual 1992

Sampling Method: NZS 4407:1991,Part 2.4.2

IANZ Accreditation does not apply to inferred CBR values or depths gretaer than 1.5 metres

Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full



**Project:** 3 Parks Development

**Location:** Wanaka

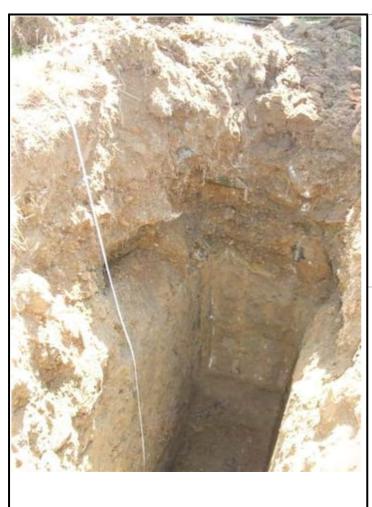
Client : Mitchell Partnerships Contractor : Nichols Landscaping

Sampled by: Mark Darcy and Kim Martelli

Date Sampled: 12/10/06
Pit number: Test Pit 6

Project No : 6CWM03.46 006DD Lab Ref No : 0PU.D6/14

Lab Ref No : Client Ref No :





Date tested: 12/10/06 Date reported: 14/11/06

This report may only be reproduced in full