

APPENDIX I

Soil Test Pit Profiles, Permeability Test Results and Photos

CPG

NE to SW Profile (along sites)

NW to SE Profile (Across site)

Low Point

Ground level



CPG

100.00.
(Relative Level)

LEGEND

Topsoil	
Sandy loam	
Silty loam	
Clay	
Gravels	
Sand	

95.0m.

1:500

Pit Nos

2

3

4

1

3

5

6

Balmoral Development - Test Pit Profile Results

Survey by CPG. 10 May 2011. - For the location of the pits refer to Drawing No. 132/-

Locality Plan & Schematic Proposal

Made by:

Date:

Page No.

Job No.

Job No. 704132 Test Hole 1
File No.
Date of test 10-May-11
Assessor J Weggery

Permeability Test Results

Reservoir Diameter 35 mm
Radius of Hole 55 mm
Depth of water in hole 315 mm

Time (min)	Cylinder Reading	drop	drop per minute mm ³ /min	
0.00	427			
1.00	396	31	31.0000	29824.6156
2.00	350	46	46.0000	44255.8813
3.00	313	37	37.0000	35597.1219
4.00	270	43	43.0000	41369.6281
5.00	225	45	45.0000	43293.7969
6.00	185	40	40.0000	38483.3750
7.00	150	35	35.0000	33672.9531
8.00	108	42	42.0000	40407.5438
9.00	67	41	41.0000	39445.4594
10.00	30	37	37.0000	35597.1219

Q = 38896.94 mm³ / min

Q = 38.8969 cm³ / min

Ksat = 0.01461 cm/min

Ksat = 0.210 m/day

classification = Clay loam (Category 4)

File No.
 Date of test 10-May-11
 Assessor J Weggery

Permeability Test Results

Reservoir Diameter 35 mm
 Radius of Hole 55 mm
 Depth of water in hole 340 mm

Time (min)	Cylinder Reading	drop	drop per minute	mm ³ /min
0.00	474			
1.00	440	34	34.0000	32710.8688
2.00	402	38	38.0000	36559.2063
3.00	363	39	39.0000	37521.2906
4.00	324	39	39.0000	37521.2906
5.00	290	34	34.0000	32710.8688
6.00	255	35	35.0000	33672.9531
7.00	220	35	35.0000	33672.9531
8.00	187	33	33.0000	31748.7844
9.00	160	27	27.0000	25976.2781
10.00	132	28	28.0000	26938.3625
11.00	105	27	27.0000	25976.2781
12.00	80	25	25.0000	24052.1094
13.00	55	25	25.0000	24052.1094
14.00	30	25	25.0000	24052.1094

Q = 30466.98 mm³ / min

Q = 30.4670 cm³ / min

Ksat = 0.01033 cm/min

Ksat = 0.149 m/day

classification = Clay loam (Category 4)



Test Pit 1



Test Pit 2



Test Pit 3



Test Pit 4



Test Pit 5



Test Pit 6