idealgeotech
a division of idealcorp

Issue Date: 21-September-2016
Ideal Job: 23690-GJG
Customer Job: 220259

LOT CLASSIFICATION REPORT

Prepared for: GJ Gardner Homes - Sydney West
Site Address: Lot 1 106-118 Mayfair Road
MULGOA

LOT CLASSIFICATION RESULTS

Site Classification in accordance with AS2870-2011

Site Classification	Soil Classification	Wind Classification
P	M	N1 (W28)

1.1	Ys value	Ys = 20 - 40
1.2	Soil sample sent to lab	No
1.3	Under slab services to be suspended	No

Master Builders Association MEMBER
ACN 132 337 190 16-18 Sammut Street, Smithfield NSW 2164 PO Box 2270 Smithfield NSW 2164
p: 02 9725 5522 f: 02 9786 6200 e: info@idealgeotech.com.au www.idealgeotech.com.au

idealgeotech | Customer Job: 220259 | Ideal Job: 23690-GJG | Date: 21-September-2016

2.0 SITE ANALYSIS

Is there current evidence of the following that would likely effect this site?
NB: * denotes relevant to PROBLEM SITE

2.1*	Existing fill (>400mm onsite)	No
2.2*	Fill suitable for founding	No
2.3*	Fill containing wood, metal, plastic or other deleterious materials	No
2.4*	Residential allotment (<1000m2) with over 1.6m fill	No
2.5*	Rural allotment (>1000m2) with over 2.4m fill	No
2.6*	Soft or collapsing soils	No
2.7*	Are there any trees (or removed trees)on site or adjoining site? If Yes Show locations at 6.0)	Yes
	Large 4m+ | Single | Onsite	
2.8	Floating boulders	No
2.9	Rock (difficult excavation)	No
2.10	Underground flowing water and/or seepage evidence	No
2.11	Marine environment or other risk of corrosion	No
2.12	Erosion	No

3.0 INSPECTION OF SITE

3.1 Site status - platform slope is:

3.1.1 Rural / Acerage | O Slope = | 5 | ° | **Fall direction** | N To S

3.2	Slope stability assessment recommended (≥11 Degrees)	No
3.3	Are there any Retaining Walls supporting this site? (If YES, show locations at 6.0).	No

4.0 VISUAL OBSERVATION OF NEIGHBOURHOOD

4.1	Presence of rock Is surface rock visible on this site or on adjoining lots, or is rock visible in nearby excavations?			No
4.2	Existing masonry buildings Is there significant cracking of existing masonry walls?	No	Type:	N/A
4.3	Indicators of movement in the following: Roads, Kerbs, Pavements, Masonry Fences, and/or Ground Surfaces Is there significant movement in any of the above?			No

idealgeotech | Customer Job: 220259 | Ideal Job: 23690-GJG | Date: 21-September-2016

5.0 FIELD RECORD OF TEST BORING AND/OR IN SITU TESTING

Fill | Natural Soil | FOUNDING

Bore Hole 1

Depth (m)	DCP 1	P.P	Soil Profile
0.0			FILL SANDY SILT, ML brown, moist, very stiff
		123 kPa	
0.5			NATURAL SILTY GRAVELLY CLAY, CI brown, moist, very stiff to hard
		152 kPa	
		236 kPa	
1.0			
		>300 kPa	ROCK (XW)
1.5			End Bore 1.5m

Bore Hole 2

Depth (m)	DCP 2	P.P	Soil Profile
0.0			FILL SANDY SILT, ML brown, moist, very stiff
		147 kPa	
			NATURAL SILTY GRAVELLY CLAY, CI brown, moist, very stiff to hard
0.5		157 kPa	
1.0		231 kPa	
		>300 kPa	
			ROCK (XW)
1.5		>300 kPa	
			End Bore 1.7m

Bore Hole 3

Depth (m)	DCP 3	P.P	Soil Profile
0.0			
		103 kPa	
0.5			
		196 kPa	
		211 kPa	
1.0			
		>300 kPa	
			End 1.2m
1.5			

2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0

Notes: DCP = Dynamic Cone Penetrometer blow counts (blows/100mm). P.P = Pocket Penetrometer (Undrained Shear Strength Cu) PSP = Perth Sand Penetrometer (blows/100mm) UTP = Unable to penetrate.

TABLE 5.1 For SAND correlation between Density Index & Penetrometer results

DENSITY Term	Density Index (%)	Approx DCP Blow Count (blows/100mm)
Very Loose	< 15	< 1
Loose	15 to ≤35	1 to ≤3
Medium Dense	35 to <65	3 to <9
Dense	65 to <85	9 to <15
Very Dense	> 85	> 15

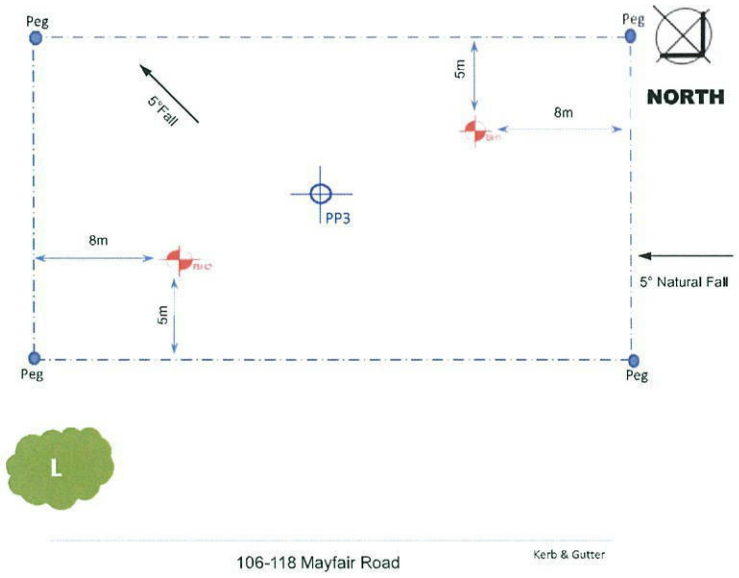
TABLE 5.2 For SILTS & CLAY correlation between Cu & Penetrometer results

CONSISTENCY Term	Undrained Shear Strength (kPa)	Approx DCP Blow Count (blows/100mm)	PP Idial indicator)
Very Soft	0 - 12	< 1	0 to ≤ 0.2
Soft	12 to ≤25	1 to ≤ 2	0.2 to ≤0.5
Firm	25 to <50	2 to <3	0.5 to <1
Stiff	50 to <100	3 to <5	1 to ≤2
Very Stiff	100 to ≤200	5 to <8	2 to <4
Hard	> 200	> 8	>4

idealgeotech Customer Job: 220259 Ideal Job: 23690-GJG Date: 21-September-2016

6.0 LOCATION OF BOREHOLES

The location of boreholes are marked and numbered as set out on the following site sketch. (Not to scale)



7.0 COMMENTS & RECOMMENDATIONS

7.1 Site notes:

8.0 CERTIFICATION

The attachment of the signature below is to certify that this report has been compiled in accordance with Australian Standards AS2870-2011, AS1726-1993 and AS3798-2007

Yours Faithfuly

Miles Opacic BE (Civil)