

IdealCorp Pty Ltd t/as **Ideal Geotech** ACN 132 337 190 16-18 Sammut Street Smithfield NSW 2164 PO Box 2270 Smithfield NSW 2164 Ph: (02) 9725 5522 Fax: (02) 8786 6300 www.idealgeotech.com.au

> Our Ref: 64551 25 July 2023

Attention: Graeme McMullan

RE: Preliminary Slope Stability Assessment at 292 Condamine Road, North Manly

1 INTRODUCTION

Ideal Geotech has prepared this report to discuss the results of the preliminary geotechnical assessment undertaken for the proposed development at 292 Condamine Road, North Manly. Ideal Geotech was engaged to provide a preliminary landslip risk assessment.

The site is located within **Area A** on the Landslip Risk Map- Sheet LSR_008 which does not normally require a preliminary Geotechnical Assessment, but council has requested a report to determine if further investigation is required.

2 PROPOSED DEVELOPMENT

With reference to the supplied drawings prepared by Group Architects, drawing no. GA2020-023-00X and dated 24 January 2023, it is understood that the proposed development comprises the construction of a new clubhouse at the Warringah Golf and Community Club. Up to approximately 0.7m of cut and 0.6m of fill will be undertaken for the construction of the clubhouse with some possible further excavation undertaken for the footings.

4 GEOLOGY

The Sydney 1:100,000 scale Geological Series Map indicates that the subject site is underlain by Quaternary deposits consisting of silty to peaty quartz sand, silt and clay with some shell layers.

5 SITE DESCRIPTION

The site is irregular in shape with a total area of approximately 1,239m². The site is bound by Pittwater Road to the north and east, Kentwell Road to the south and the golf course to the west. The site is located on relatively flat terrain.

During the course of the inspection no slip scarps or tension cracks were documented nor was there any visible hummocking of the land. This leads to the assumption that no significant slope failures have occurred.

Existing development comprises an existing club house.

6 **RECOMMENDATIONS**

During the course of the inspection, no slip scarps or tension cracks were documented nor was there any visible hummocking of the land. This leads to the assumption that no significant slope failures or subsidence has occurred.

The stability of a site is generally governed by site factors such as slope angles, depth of in-situ soils, and strength of sub-surface material and concentrations of water. The Australian Geomechanics Society recommends that the landslide risk of a site is assessed on the basis of the likelihood of a landslide event and the consequences of that event.

A Risk Assessment related to shallow soil slips, near surface slumping and deep-seated landslides, subject to adherence to our recommendations, has been provided in Table 1 below.

HAZARD	SOIL CREEP	NEAR SURFACE SLUMPING	ACTIVE OR DEEP SEATED LAND SLIDE	ROCK FALL (ABOVE DWELLING LOCATION)		
Likelihood	Rare	Rare	Rare	Barely credible		
Consequence to Property	Minor	Medium	Major	Major		
Risk to Proposed Development	Very Low	Low	Low	Very low		
Risk to Life	1 x 10%/annum	1 x 10⁵/annum	1 x 10⁵/annum	1 x 10 ⁶ /annum		
Remarks None observed		None observed	None observed	None observed		

Table 1: Summary of Risk to Property and Life

The site is currently in a stable condition, based on a "Very Low to Low" Risk Level of instability relating to shallow soil slips and active or deep-seated land slide. With reference to the supplied drawings prepared by Group Architects, it is our assessment that the site is suitable for the proposed development and will not be subject to subsidence, slip, slope failure or erosion, provided all construction is carried out in accordance with good engineering and hill slope practices.

The soil profile consists of high permeability silty sands and stormwater discharge will not cause significant detrimental impacts as it is understood absorption trenches are to be installed in conjunction with the high permeability soils. Due to the soil profile consisting of sand and minimal excavation is proposed, subsurface flow conditions will not be impacted.

7 GENERAL

The scope of Ideal Geotech services are described in the report and are subject to restrictions and limitations. Ideal Geotech did not perform a complete assessment of all possible conditions or circumstances that may exist at the site. Site conditions may also change subsequent to the investigations and assessment due to ongoing use.

Where data has been supplied by the client or a third party, it is assumed that the information is correct unless otherwise stated. No responsibility is accepted by Ideal Geotech for incomplete or inaccurate data supplied by others.

Assessment was undertaken on 18 July 2023.

For and on behalf of

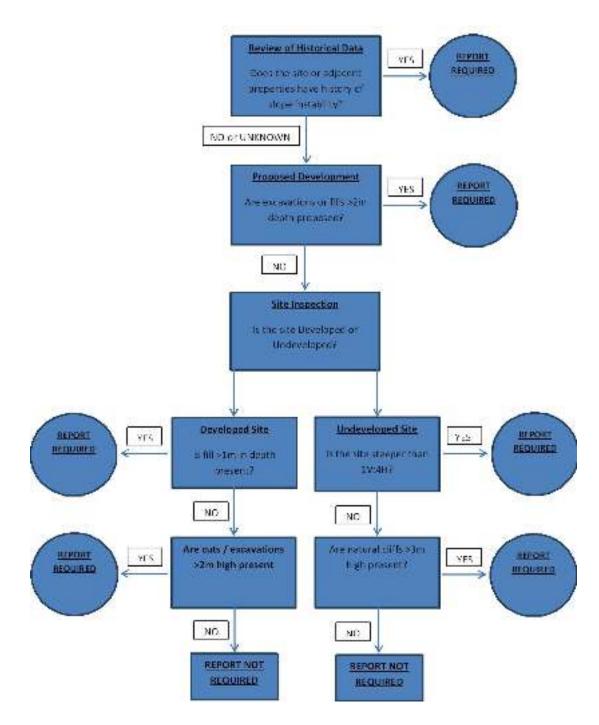
Ideal Geotech

B. Bwyer

Dane Dwyer Geotechnical Engineer

Attachments - Preliminary Assessment Flow Chart

PRELIMINARY ASSESSMENT FLOW CHART



Permeabilit n-Situ

Accredited for compliance With ISO/IEC 17025 NATA Accreditation No. 19226

16-18 Sammut Street Smithfield NSW 2164 PO Box 2270 Smithfield NSW Phone: 02 9725 5522 Email: <u>info@idealcorp.com.au</u> Website: <u>www.idealgeotech.com.au</u>

Prepared For: Warringah Golf Club



Site Address:

(WGC Pro Shop) 292 Condamine Street, North Manly

Ref No:

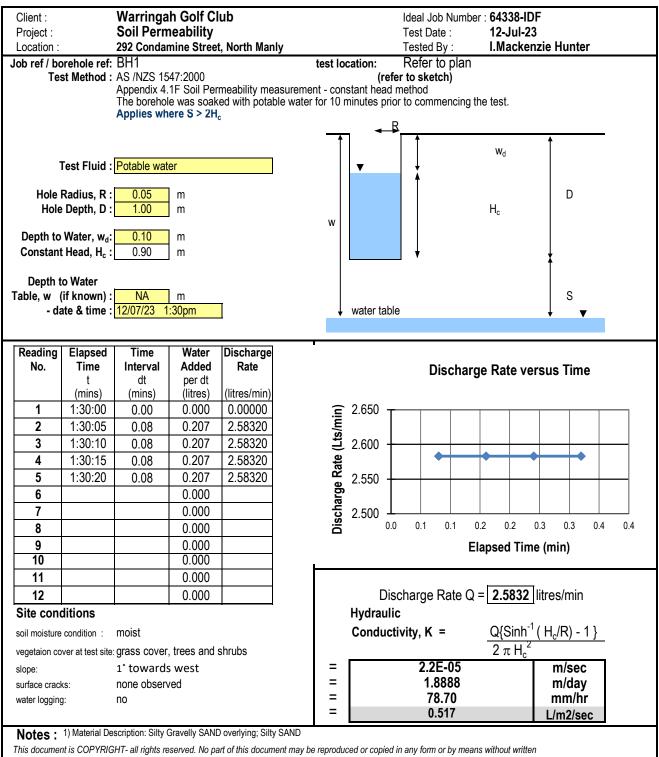
64338-IDF

Date:

July 2023

idealgeotech

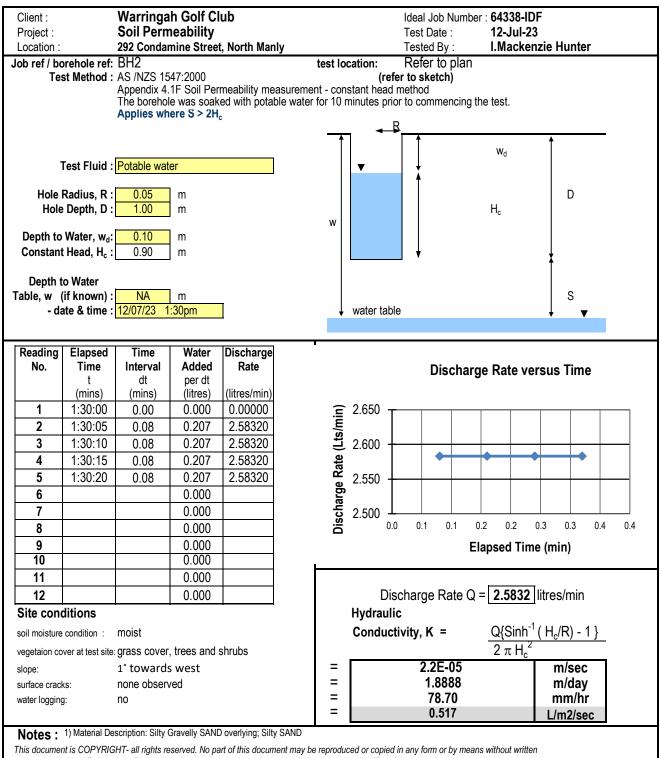
PERMEABILITY TEST REPORT



permission by Ideal Foundations Pty Ltd. All other property in this submission shall not pass untill all fees for preparation have been settled.

This submission is for the use onlyof the party to whom it is addressed and for no other purpose. No responsibility is accepted to any third party who may use or rely on the whole or any part of the content of this submission. No responsibility will be taken for this report if it is altered in any way, or not reproduced in full.

PERMEABILITY TEST REPORT



permission by Ideal Foundations Pty Ltd. All other property in this submission shall not pass untill all fees for preparation have been settled.

This submission is for the use onlyof the party to whom it is addressed and for no other purpose. No responsibility is accepted to any third party who may use or rely on the whole or any part of the content of this submission. No responsibility will be taken for this report if it is altered in any way, or not reproduced in full.





Title	Borehole Location Plan	Council	Northern Beaches Council	Drawn By	Ben	
Project	In-Situ Permeability	Job Number	64338-IDF	Checked By	Dane	
Site Address	292 Condamine Street, North Manly	Figure Number	Figure 1	Date	Jul-23	NORTH POIN

 idealgeotech a division of idealcorp 5.1 FIELD LOG 				Ideal Jo	ustomer Job: - Surface							
Water		Samples	Depth	Mate Orig		Depth Depth	Classification Code		Description	Moisture	Density / Consistency	
No water observed			-	FILL			SM		elly SAND Brown	Slightly Moist		
No water				NATURAL			SM		SAND	Slightly Moist		
			<u>1.0</u>					End Bore (Har	nd Auger) 0.8m			
			-									
			-									
			 2.5 									
			 3.0									
			_									
	ter Table		nable to p		I			ne Penetrometer	PP - Pocket Pe	netrometer		
S	SAND – Density Index vs Approx. Penetrometer re				Secure 1			Y – Cu vs Approx. Penetrometer results Undrained Shear DCP Blow Count			ISTURE	
VL L MD D VD	DENSITY Very Loose Loose Medium Dense Dense Very Dense	Sensity Index < 15 %		Blow Count ws/100mm) < 1 1 - 3 3 - 9 9 - 15 > 15	CON VS S F St VSt H	Very Soft Soft Firm Stiff Very Stiff Hard	ft	Strength (kPa) 0 - 12 12 - 25 25 - 50 50 - 100 100 - 200 > 200	(blows/100mm) <1 1-2 2-3 3-5 5-8 >8	D C M N W V W _P F W _L L	Dry Noist Vet Plastic Limit iquid Limit Noisture	

C 5.2	a division of it		Ideal J	mer Job: ob: ddress:	64338 (WGC Pro	o Shop) 2	292 Condamine St NSW, 2100	Borehole: Surface RL: Easting: reetNorthing:	В	H2
Water		Samples		terial rigin	FILL Depth	Classification Code	Material D	Description	Moisture	Density / Consistency
No water observed			- FILL			SM	Silty Grav Dark I		Slightly Moist	
No wate			NATURAL			SM	Silty S		Slightly Moist	
			1.0 				End Bore (Ha	nd Auger) 1m		
			<u>1</u> .5 							
			- <u>3.</u> 0 - -							
	ter Table		able to penetrate	C			ne Penetrometer	PP - Pocket Pe	netrometer	
			DCP Blow Count	CON	SILTS &	ι	Cu vs Approx. Penetrometer results Undrained Shear DCP Blow Count (blow (000mm))			ISTURE
VL L MD D VD	Very Loose Loose Medium Dense Dense Very Dense	 < 15 % 15 – 35 % 35 – 65 % 65 – 85 % > 85 % 	(blows/100mm) < 1 1 - 3 3 - 9 9 - 15 > 15	VS S F St VSt H	Very Soft Soft Firm Stiff Very Stif Hard	ft	Strength (kPa) 0 - 12 12 - 25 25 - 50 50 - 100 100 - 200 > 200	(blows/100mm) < 1 1 - 2 2 - 3 3 - 5 5 - 8 > 8	M M W V W _P F W _L L	Dry Aoist Vet Plastic Limit .iquid Limit Aoisture