

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724 PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

31st May 2011

Our Reference: 10458:JHF484

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING ESTUARY ESTATE (STAGE 3) – LEOPOLD

Please find attached our Report No 10458AA that relates to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing was conducted in November 2010.

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspection and testing was performed by an experienced geotechnician from this office. Any areas that were deemed unsatisfactory were reworked and retested under his supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the reported allotments by Winslow Constructors during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

When interpreting the requirements of AS 2870 - Residential Slabs and Footings (1996), we are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Justin Fry



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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES							10458 10458AA	
8 Rose Avenue, Croydon 3136		ate Issued ested by	23/11/10 JAA					
	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)							
,	ESTUARY - STAGE 3 LEOPOLD						10/11/10 JHF	
Location LEOPOLD					C	hecked by	JHF	
Feature EARTHWORKS		Layer thickness		200 mm		Time:	10:30	
Test procedure AS 1289.2.1.1 & 5.8 Test No	2.1	1	2	3	4	5	-	
Location		•		Ű				
Location		REFER	REFER	REFER	REFER	REFER		
		TO	TO	TO	TO	TO		
		FIGURE 1	FIGURE 1		FIGURE 1			
Approximate depth below FSL		-	-	-	-	-	-	
	mm	- 175	- 175	- 175	- 175	- 175	-	
Measurement depth	mm t/m³						-	
Approximate depth below FSL Measurement depth Field wet density Field moisture content		175	175	175	175	175	-	
Measurement depth Field wet density Field moisture content	t∕m³	175 2.05	175 2.03	175 2.02	175 1.95	175 1.95	-	
Measurement depth Field wet density	t∕m³	175 2.05	175 2.03	175 2.02	175 1.95	175 1.95	-	
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No	t∕m³	175 2.05 21.8	175 2.03 23.4	175 2.02 22.7 3	175 1.95 17.2	175 1.95 28.1	-	
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort	t∕m³	175 2.05 21.8	175 2.03 23.4	175 2.02 22.7 3	175 1.95 17.2 4	175 1.95 28.1	-	
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	<i>t/m</i> ³ %	175 2.05 21.8 1	175 2.03 23.4 2	175 2.02 22.7 3 Stan	175 1.95 17.2 4 dard	175 1.95 28.1 5	- - -	
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³ % mm	175 2.05 21.8 1 19.0	175 2.03 23.4 2 19.0	175 2.02 22.7 3 Stan 19.0	175 1.95 17.2 4 dard 19.0	175 1.95 28.1 5 19.0	- - -	
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	t/m³ % mm wet	175 2.05 21.8 1 19.0 0	175 2.03 23.4 2 19.0 0	175 2.02 22.7 3 Stan 19.0 0	175 1.95 17.2 4 dard 19.0 0	175 1.95 28.1 5 19.0 0	- - -	

Moisture Variation From Optimum Moisture Content	0.5% dry	0.0%	2.0% dry	0.0%	0.5% dry	-
Density Ratio(R _{HD})	% 100.5	103.0	105.0	102.5	95.0	-

Material description

Test No 1 - 5 Clay Fill



This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025

Accreditation No 9909

Approved Signatory: Justin Fry

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