

EARTHWORK CONTROL TESTING

FOR

RESIDENTIAL DEVELOPMENT

AT

WEST WILCHARD ROAD

CASTLEREAGH, NSW

Ref No. L3884E

Soil Test Services Pty Ltd
EARTHWORKS AND LABORATORY TESTING

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Ref No. L3884E
Report Date 15/2/17

15th February, 2017
Ref No: L3884E
File No.2

Dear Sirs,

**RE: RESIDENTIAL DEVELOPMENT
WEST WILCHARD ROAD
CASTLEREAGH NSW**

Period Covered: 13th February 2017.

During the above period STS has performed earthwork control testing on the compacted fill layers.:

- STS has prepared the following attached Reports.
 - Daily Site Report numbers: 20.
 - Hilf Density Ratio Reports numbers: L3768E – 16 to 17.
 - Lot Approval Report numbers: L3768E – L16 to L17.

STS confirms that all the earthworks undertaken in the above stated period are documented in the above reports and have been undertaken in accordance with the Specification (PSM2541 email, dated 29th April 2016).

Should you require additional information please contact us.

Yours faithfully,
For and on behalf of
Soil Test Services Pty Ltd


(David Treweek)

Panoramic views



Plate 1: Taken 13/2/2017



Plate 2 Taken 13/2/2017

DAILY SITE REPORT



PROJECT: Penrith Lakes Development Corp
ADDRESS: Corner of West Wilchard Road & Castlereagh Roads
Castlereagh NSW 2749

JOB NO: L3884E
DATE: 13/2/2017
REPORT NO: 20
AS3798 – 2007: TESTING LEVEL:

1. **WEATHER:** FINE / COOL to WARM

2. **MACHINERY ON SITE**

COMPACTORS: Smooth Drum Roller
SCRAPERS: N/A
DUMP TRUCK: N/A
BOGIE TRUCKS: N/A

EXCAVATORS: 1
BULLDOZERS: D6
WATERCARTS: ONSITE TANKER
OTHERS: Grader

3. **EARTHWORKS IN PROGRESS:**

- Imported Material Sandstone from Northconnex
 - Two layers of sandstone placed as capping for building pad.
 - Material dry of OMC water cart conditioning fill.
4. **SUBGRADE APPROVAL:** None

Area ID	Subgrade Approval Report No:	Comments

5. **LOT APPROVAL:**

Lot ID	Lot Approval Report No:	Comments
L16	L3884E – L16	Field Test No's: 31 & 32
L17	L3884E – L17	Field Test No's: 33 & 34

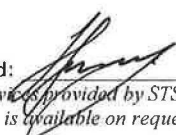
6. **SURVEY:** None

Type of survey:	Survey undertaken by:	Reference:


7. **INSTRUCTIONS RECEIVED ON SITE:**

8. **INSTRUCTIONS GIVEN ON SITE:**

9. **OTHER COMMENTS:**

Signed:  Tech' Name: Leonard Matrix
 All services provided by STS are subject to our standard terms & conditions.
 A copy is available on request.

LOT APPROVAL REPORT

Client: Allyn Holdings Pty Ltd atf Keller Family Trust		Report number: L3884E – L16	
Job number: L3884E		Report date: 15/2/2017	
Project: Residential Development		Technician: Tom Finnegan	
Location: Corner West Wilchard and Castlereagh Roads, Castlereagh			
LOT ID: L16		Hilf Density Ratio Report Number: L3768E – 16	
Retest: <u>No</u>		Original report number:	
Specification reference: <u>PSM2541- Email dated 29 APRIL 2016</u>			
Lot boundary survey reference: <u>L16</u>			
Material identification: <u>SPEC FILL IMPORTED</u>			
Deleterious material assessment: <u>VISUALY ASSESED AS LESS THAN 0.5%</u>			
Layer thickness: <u>300mm</u>			
Accepted as a lot: Yes		Date: <u>13/2/17</u>	
Approximate volume (m ³): <u>380</u>		Number of tests required: <u>2</u>	
LOT APPROVAL: <u>PASS</u> Signed:  Date: <u>15/2/2017</u>			

Hilf Density Ratio Report

Client : Allyn Holdings Pty Ltd atf Keller Family Trust	Report Number: L3884E - 16
Job Number : L3884E	Report Date: 15/02/2017
Project : Penrith Lakes Development	Order Number: Verbal
Location : West Wilchard Road, Castlereagh	Test Method: AS1289.5.7.1



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Lab No :	3491	3492		
ID No :	31	32		
Lot No :	L16	L16		
Item No :	-	-		
Date/Time Tested :	13/02/2017	13/02/2017		
Material Source :	Imported	Imported		
For Use As :	SPEC Fill	SPEC Fill		
Sample Location :	House Pad E 284657 N 6271600 RL: 22.38m	House Pad E 284654 N 6271563 RL: 22.19m		
Test Depth (mm) :	300	300		
Max Size (mm) :	37.5	37.5		
Oversize Wet (%) :	6	15		
Fld. Wet Density (t/m ³):	2.24	2.20		
Fld. Moisture Cont (%) :	6.4	6.7		
PCWD (t/m ³) :	2.24*	2.18*		
Moisture Variation (%) :	1.7% (dry of omc)	1.9% (dry of omc)		
Compactive Effort :	Standard	Standard		
Hilf Density Ratio (%) :	100.0	101.0		
Min Hilf Dens Ratio (%) :	98	98		

Remarks: **Test Methods: AS1289.5.8.1 & 2.1.1.**

* Denotes "Adjusted for Oversize Material"

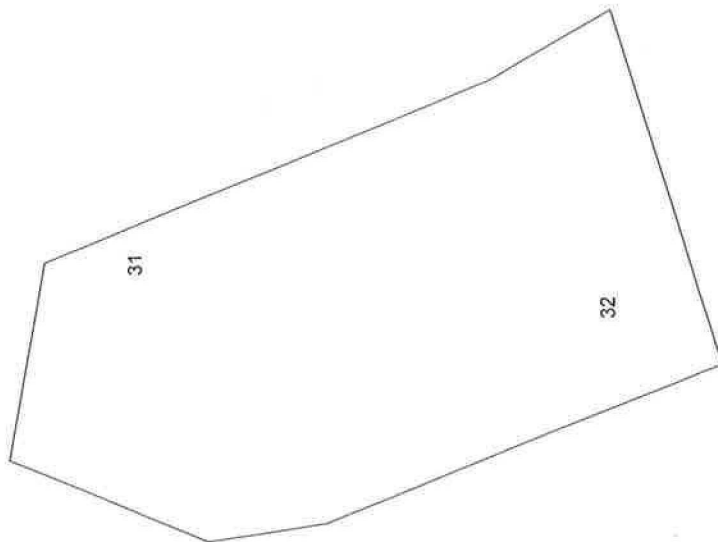
Lab Number:	Soil Description
3491	SPEC FILL Silty Sand, fine to medium grained, light grey, some gravel.
3492	SPEC FILL Gravelly Silty Sand, fine to medium grained, light grey.

 <p>NATA Accredited Laboratory Number:1327</p>	<p>Accredited for compliance with ISO/IEC 17025 - Testing. This document shall not be reproduced except in full.</p>	APPROVED SIGNATORY	Form Number:
		 15/2/17 Authorised Signature / Date (T. Finnegan)	REP HNUC-1

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Comment :L3884E Residential Development: Test Locations Lot L16

Soil Test Services Pty Ltd

Project : wilchard
D:\wilchard.TP3

02/15/2017

LOT APPROVAL REPORT

Client: Allyn Holdings Pty Ltd atf Keller Family Trust	Report number: L3884E – L17
Job number: L3884E	Report date: 15/2/2017
Project: Residential Development	Technician: Tom Finnegan
Location: Corner West Wilchard and Castlereagh Roads, Castlereagh	
LOT ID: L17	Hilf Density Ratio Report Number: L3768E – 17
Retest: <u>No</u>	Original report number:
Specification reference: <u>PSM2541- Email dated 29 APRIL 2016</u>	
Lot boundary survey reference: <u>L17</u>	
Material identification: <u>SPEC FILL IMPORTED</u>	
Deleterious material assessment: <u>VISUALY ASSESED AS LESS THAN 0.5%</u>	
Layer thickness: <u>300mm</u>	
Accepted as a lot: Yes	Date: <u>13/2/17</u>
Approximate volume (m ³): <u>380</u>	Number of tests required: <u>2</u>
LOT APPROVAL: <u>PASS</u> Signed:  Date: <u>15/2/2017</u>	

Hilf Density Ratio Report

Client : Allyn Holdings Pty Ltd atf Keller Family Trust	Report Number: L3884E - 17
Job Number : L3884E	Report Date: 15/02/2017
Project : Penrith Lakes Development	Order Number: Verbal
Location : West Wilchard Road, Castlereagh	Test Method: AS1289.5.7.1



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Lab No :	3493	3494		
ID No :	33	34		
Lot No :	L17	L17		
Item No :	-	-		
Date/Time Tested :	13/02/2017	13/02/2017		
Material Source :	Imported	Imported		
For Use As :	SPEC Fill	SPEC Fill		
Sample Location :	House Pad E 284667 N 6271569 RL: 22.65m	House Pad E 284642 N 6271595 RL: 22.51m		
Test Depth (mm) :	300	300		
Max Size (mm) :	37.5	37.5		
Oversize Wet (%) :	10	11		
Fld. Wet Density (t/m ³):	2.24	2.19		
Fld. Moisture Cont (%) :	6.2	5.6		
PCWD (t/m ³) :	2.23*	2.17*		
Moisture Variation (%) :	1.7% (dry of omc)	2.5% (dry of omc)		
Compactive Effort :	Standard	Standard		
Hilf Density Ratio (%) :	101.0	100.5		
Min Hilf Dens Ratio (%) :	98	98		

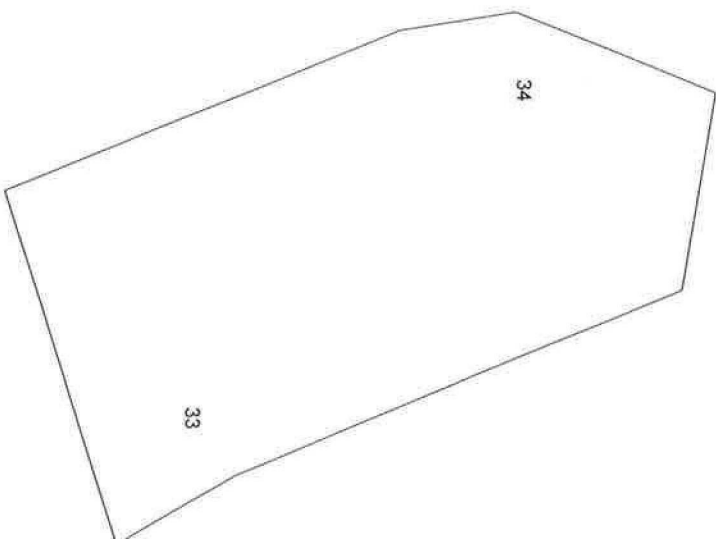
Remarks: **Test Methods: AS1289.5.8.1 & 2.1.1.**

* Denotes "Adjusted for Oversize Material"

Lab Number:	Soil Description
3493	SPEC FILL Gravelly Silty Sand, fine to medium grained, light grey.
3494	SPEC FILL Gravelly Silty Sand, fine to medium grained, light grey.

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		All services provided by STS are subject to our standard terms and conditions. A copy is available on request.	

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Soil Test Services Pty Ltd

Comment : L3884E Residential Development Test Locations Lot L17

Project : wilchard