

### Material Test Certificate

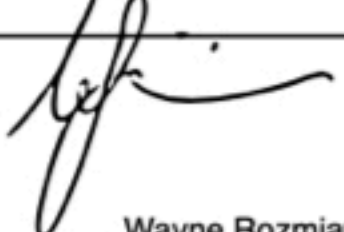
#### AS 1289.6.1.1 Determination of the California Bearing Ratio of a soil - Standard laboratory method for a remoulded specimen

<b>Client:</b>	BETTA ROADS PTY LTD	<b>Job Number:</b>	S916291
<b>Project:</b>	Raw & PolyCom Treated Samples - JOONDALUP DR JOONDALUP	<b>Issue Number:</b>	1
<b>Report Number:</b>	S916291-C	<b>Page:</b>	2 of 2
Laboratory testing carried out at Balcatt 1 Erindale Rd Balcatta WA 6021			

<b>Sample ID:</b>	Dowerin Borrow Pit - Without Polycom	<b>Date Tested:</b>	13 May 2019
<b>Proposed Use:</b>	-	<b>Laboratory Number:</b>	S916291-C-2
<b>Material Type:</b>	Sandy CLAY	<b>Depth of Test:</b>	- mm
<b>Moisture content method:</b>	AS 1289.2.1.1	<b>Layer Thickness:</b>	- mm
<b>Sampling Method :</b>	Client	<b>Site Selection Method:</b>	Client

Placement Conditions		Result	Specified
Period of Soaking (days)	4		
Mass of Surcharge Applied kg	4.50		
Sample Curing Time (hrs)	24		
Method of Establishing Plasticity	Visual/Tactile		
Compaction Hammer Used	AS 1289.5.2.1		
Compactive Effort - Average Blows per Layer	35		
Compactive Effort - Number of Layers	5		
<b>Maximum Dry Density</b>	2.11 t/m <sup>3</sup>	100.0 %	
<b>Optimum Moisture Content</b>	8.5 %	100.5 %	
<b>Percent retained on 19 mm sieve</b>	8 %		
	<b>Result</b>	<b>Ratio</b>	
<b>Moisture content at compaction</b>	8.5 %	98.0 %	
<b>Moisture Content after Soaking</b>	9.4 %	110.5 %	
<b>Moisture Content - Top 30 mm</b>	10.0 %	115.0 %	
<b>Moisture Content - Remainder</b>	9.0 %	103.5 %	
<b>Dry Density of Specimen at Compaction</b>	2.11 t/m <sup>3</sup>	100.0 %	
<b>Dry density of Specimen after Soaking</b>	2.11 t/m <sup>3</sup>	100.0 %	
<b>Swell</b>	0.0 %		
<b>California Bearing Ratio / Penetration</b>	<b>120 %</b>	<b>@</b>	<b>2.5 mm</b>

**Notes:** Sample place at OMC in 5 layers using 35 blows per layer.  
Sample placed in 50C Oven after moulding and prior to soaking.

**Approved Signatory:**   
Laboratory Manager Wayne Rozmianiec Date: 19-Jan-18

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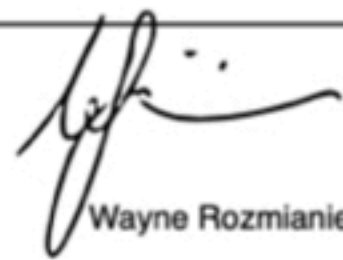
#### AS 1289.6.1.1 Determination of the California Bearing Ratio of a soil - Standard laboratory method for a remoulded specimen

<b>Client:</b>	BETTA ROADS PTY LTD	<b>Job Number:</b>	S916291
<b>Project:</b>	Raw & PolyCom Treated Samples - JOONDALUP DR JOONDALUP	<b>Issue Number:</b>	1
<b>Report Number:</b>	S916291-C	<b>Page:</b>	1 of 2
Laboratory testing carried out at Balcatta Labor 1 Erindale Rd Balcatta WA 6021			

<b>Sample ID:</b>	Dowerin Borrow Pit - With Polycom	<b>Date Tested:</b>	13 May 2019
<b>Proposed Use:</b>	-	<b>Laboratory Number:</b>	S916291-C-1
<b>Material Type:</b>	Sandy CLAY	<b>Depth of Test:</b>	- mm
<b>Moisture content method:</b>	AS 1289.2.1.1	<b>Layer Thickness:</b>	- mm
<b>Sampling Method :</b>	Client	<b>Site Selection Method:</b>	Client

Placement Conditions		Result	Specified
Period of Soaking (days)	4		
Mass of Surcharge Applied kg	4.50		
Sample Curing Time (hrs)	24		
Method of Establishing Plasticity	Visual/Tactile		
Compaction Hammer Used	AS 1289.5.2.1		
Compactive Effort - Average Blows per Layer	35		
Compactive Effort - Number of Layers	5		
<b>Maximum Dry Density</b>	2.07 t/m <sup>3</sup>	100.0 %	
<b>Optimum Moisture Content</b>	9.0 %	100.5 %	
<b>Percent retained on 19 mm sieve</b>	7 %		
	<b>Result</b>	<b>Ratio</b>	
<b>Moisture content at compaction</b>	9.0 %	100.5 %	
<b>Moisture Content after Soaking</b>	9.7 %	110.0 %	
<b>Moisture Content - Top 30 mm</b>	9.5 %	107.5 %	
<b>Moisture Content - Remainder</b>	9.0 %	102.5 %	
<b>Dry Density of Specimen at Compaction</b>	2.10 t/m <sup>3</sup>	101.0 %	
<b>Dry density of Specimen after Soaking</b>	2.10 t/m <sup>3</sup>	101.5 %	
<b>Swell</b>	0.0 %		
<b>California Bearing Ratio / Penetration</b>	<b>170 %</b>	<b>@</b>	<b>2.5 mm</b>

**Notes:** Sample place at OMC in 5 layers using 35 blows per layer.  
Sample placed in 50C Oven after moulding and prior to soaking.

**Approved Signatory:**   
Laboratory Manager Wayne Rozmianiec Date: 19-Jan-18