



# BOREHOLE LOG

Borehole No.: **BH27**

Sheet 2 of 2

**Client:** Water Corporation **Coordinates:** E 400 430, N 6443 644  
**Project:** Balannup A WWPS and Keane Road Pressure Main **Ground Surface Elevation:** +22.3m AHD **Total Depth:** 6.0m  
**Job No.:** 61/29471/02 **Commenced:** 27-Jul-13 **Completed:** 27-Jul-13  
**Contractor:** Hagstrom Drilling **Driller:** Peter Lowenstein

**Rig Type & Mounting:** DPP mounted Geoprobe 7822DT **Inclination:** Vertical **Logged:** CM 27-Jul-13  
**Flushing Fluid:** None **Processed:** CM 30-Oct-13  
**Hole Diameter (mm):** 120 **Casing Size:** NA **Checked:** AW 19/11/13

Depth Scale (m)	Daily Progress/Observations				Water	Depth (m)/ [Elev.]	Geological Unit	Graphic Log	Classification	Strata Description <small>(type; colour; fines plasticity or particle characteristics; minor components; structure and/or origin)</small>	Moisture Condition	Consistency/Relative Density	Sample Type & Depth	Sample No.	Sample/ Test Records & Comments	Depth Scale (m)
	Date	Casing Depth (m)	Fluid Depth (m)	Drilling Method												
6	27/07					5.7 [+16.6]			SC	CLAYEY SAND Blue/grey, medium grained, low to medium plasticity, organic odour GUILDFORD FORMATION			5.00 5.50	D D		6
						6.0 [+16.3]				CORELOSS from 5.7 to 6.0m Inferred to be CLAYEY SAND						
										Termination Depth = 6.00m (Target Depth)						


GENERAL LOG - KEANE ROAD PRESSURE MAIN.GPJ\_GHDPER.GDT\_30/10/13

Client : **Cedar Woods**  
Project: **Anstey Road**  
Easting **400425**  
Northing **6443568**  
Datum: MGA Zone 50, GDA 94  
Drill type: Drill Rig Hollow Auger  
Hole diameter: 75 mm

Job Number : H13008  
Start Hole :  
End Hole :  
Logged by : Renee Blandin  
Total Depth : 5.89  
RL Top of Casing : **22.67**  
RL Nat Surface : **22.17**

Bore Name

**AR5**

support	backfill	water	Slot / Screen Depth	Depth (metres)	Soil Characteristics					
					Colour	Particle Size	Texture	Organic Content	Moisture	Comment
PVC (Class 9)			Bentonite Seal	1.0 m		Fine	Sand	Low		
			Gravel				Clayey Sand		Slightly Moist	
				2.0 m		Medium				
					Solid Light Brown			Sandy clay		
								Clayey Sand		
				3.0 m						Moist
										Saturated
				4.0 m		Solid Light Grey	Fine	Sand		
				5.0 m						
				6.0 m						End of hole
				7.0 m						
				8.0 m						
				9.0 m						
	10.0 m									

COLOUR : Black, White, Biege  
Dark/Medium/Light : Brown, Red, Orange, Yellow, Grey, Blue  
Composition : Solid , Blemish, Mottle  
PARTICLE SIZE : Fine, Medium, Course  
TEXTURE : Sand, Loamy Sand, Clayey Sand  
Silt, Loam, Sandy Loam, Clayey Loam  
Clay, Sandy Clay  
ORGANICS : High, Medium, Low  
MOISTURE : Dry, Slightly Moist, Moist, Saturated

**Static Water Level**

Date 16/05/2013  
Stickup above NS (m) 0.50  
Water Level bTOC (m) 2.62  
Water Level bNS (m) 2.12

Client : **Cedar Woods**  
Project: **Anstey Road**  
Easting **400198**  
Northing **6443792**  
Datum: MGA Zone 50, GDA 94  
Drill type: Drill Rig Hollow Auger  
Hole diameter: 75 mm

Job Number : H13008  
Start Hole :  
End Hole :  
Logged by : Renee Blandin  
Total Depth : 5.78  
RL Top of Casing : **23.73**  
RL Nat Surface : **23.23**

Bore Name

**AR6**

support	backfill	water	Slot / Screen Depth	Depth (metres)	Soil Characteristics					
					Colour	Particle Size	Texture	Organic Content	Moisture	Comment
PVC (Class 9)		▽	Bentonite Seal	1.0 m	Solid Black					
					Solid Grey	Fine	Sand	Low		
			Gravel	2.0 m	Solid Light Grey				Slightly Moist	
					Solid Light Brown	Medium				
			Coffey Rock	3.0 m	Mottled Medium Brown/Grey	Coarse	Sandy clay			
					Solid Medium Brown	Medium	Clayey Sand			
					Solid Dark Grey				Moist	
			Saturated	4.0 m	Solid Light Grey					
						Fine	Sand			
			End of hole	5.0 m						
				6.0 m						
				7.0 m						
				8.0 m						
				9.0 m						
	10.0 m									

COLOUR : Black, White, Biege  
Dark/Medium/Light : Brown, Red, Orange, Yellow, Grey, Blue  
Composition : Solid , Blemish, Mottle

PARTICLE SIZE : Fine, Medium, Course

TEXTURE : Sand, Loamy Sand, Clayey Sand  
Silt, Loam, Sandy Loam, Clayey Loam  
Clay, Sandy Clay

ORGANICS : High, Medium, Low

MOISTURE : Dry, Slightly Moist, Moist, Saturated

**Static Water Level**

Date	16/05/2013	
Stickup above NS (m)		0.50
Water Level bTOC (m)		3.79
Water Level bNS (m)		3.29

# **Appendix F** – Summary of laboratory test results

*F1: Summary Test Report*

*F2: Summary of Test Results*

# REPORTED TEST SUMMARY

Report Code	Report Type	Samples on Report	Lot Number	Sample Date	Report Date
<b>5029/P/256</b>	<b>Keane Road Pressure Main</b>				
5029/R/1472-1	AS Soil Particle Size Distribution	5029/S/6394	A01 Sample 1 Depth 0.0m	11/08/2015	25/08/2015
5029/R/1473-1	AS Soil Particle Size Distribution	5029/S/6395	A01 Sample 2 Depth 0.4m	11/08/2015	25/08/2015
5029/R/1474-1	Atterberg Limits (with A-Line graph)	5029/S/6396	A01 Sample 3 Depth 0.6m	11/08/2015	25/08/2015
5029/R/1475-1	AS Soil Particle Size Distribution	5029/S/6397	A01 Sample 4 Depth 0.8m	11/08/2015	25/08/2015
5029/R/1476-1	AS Soil Particle Size Distribution	5029/S/6399	A01 Sample 6 Depth 1.2m	11/08/2015	25/08/2015
5029/R/1477-1	AS Soil Particle Size Distribution	5029/S/6400	A01 Sample 7 Depth 1.5m	11/08/2015	25/08/2015
5029/R/1478-1	AS Soil Particle Size Distribution	5029/S/6402	A01 Sample 9 Depth 2.0m	11/08/2015	25/08/2015
5029/R/1479-1	AS Soil Particle Size Distribution	5029/S/6403	A01 Sample 10 Depth 2.3m	11/08/2015	25/08/2015
5029/R/1480-1	AS Soil Particle Size Distribution	5029/S/6404	A01 Sample 11 Depth 2.8m	11/08/2015	25/08/2015
5029/R/1481-1	AS Soil Particle Size Distribution	5029/S/6405	A01 Sample 13 Depth 3.8m	11/08/2015	25/08/2015
5029/R/1482-1	AS Soil Particle Size Distribution	5029/S/6406	A01 Sample 15 Depth 6.5m	11/08/2015	25/08/2015
5029/R/1493-1	AS Soil Particle Size Distribution	5029/S/6398	A01 Sample 5 Depth 1.0m	11/08/2015	26/08/2015
5029/R/1494-1	AS Soil Particle Size Distribution	5029/S/6407	A01 Sample 16 Depth 7.5m	11/08/2015	26/08/2015
5029/R/1495-1	AS Soil Particle Size Distribution	5029/S/6408	A01 Sample 17 Depth 8.5m	11/08/2015	26/08/2015
5029/R/1496-1	AS Soil Particle Size Distribution	5029/S/6409	A02 Sample 1 Depth 0.0m	11/08/2015	26/08/2015
5029/R/1497-1	AS Soil Particle Size Distribution	5029/S/6410	A02 Sample 2 Depth 0.3m	11/08/2015	26/08/2015
5029/R/1498-1	AS Soil Particle Size Distribution	5029/S/6411	A02 Sample 3 Depth 0.5m	11/08/2015	26/08/2015
5029/R/1499-1	AS Soil Particle Size Distribution	5029/S/6412	A02 Sample 4 Depth 0.8m	11/08/2015	26/08/2015
5029/R/1500-1	AS Soil Particle Size Distribution	5029/S/6413	A02 Sample 5 Depth 1.0m	11/08/2015	26/08/2015
5029/R/1501-1	Atterberg Limits (with A-Line graph)	5029/S/6414	A02 Sample 6 Depth 1.3m	11/08/2015	26/08/2015
5029/R/1502-1	AS Soil Particle Size Distribution	5029/S/6415	A02 Sample 7 Depth 1.5m	11/08/2015	26/08/2015
5029/R/1503-1	AS Soil Particle Size Distribution	5029/S/6416	A02 Sample 8 Depth 1.8m	11/08/2015	26/08/2015
5029/R/1504-1	AS Soil Particle Size Distribution	5029/S/6417	A02 Sample 9 Depth 2.0m	11/08/2015	26/08/2015
5029/R/1505-1	AS Soil Particle Size Distribution	5029/S/6418	A02 Sample 10 Depth 2.3m	11/08/2015	26/08/2015
5029/R/1506-1	Atterberg Limits (with A-Line graph)	5029/S/6419	A02 Sample 11 Depth 2.5m	11/08/2015	26/08/2015
5029/R/1507-1	AS Soil Particle Size Distribution	5029/S/6420	A02 Sample 12 Depth 2.8m	11/08/2015	26/08/2015
5029/R/1508-1	AS Soil Particle Size Distribution	5029/S/6421	A03 Sample 1 Depth 0.0m	11/08/2015	26/08/2015
5029/R/1509-1	AS Soil Particle Size Distribution	5029/S/6422	A03 Sample 2 Depth 0.2m	11/08/2015	26/08/2015
5029/R/1510-1	Atterberg Limits (with A-Line graph)	5029/S/6423	A03 Sample 3 Depth 0.5m	11/08/2015	26/08/2015
5029/R/1511-1	AS Soil Particle Size Distribution	5029/S/6424	A03 Sample 4 Depth 0.7m	11/08/2015	26/08/2015
5029/R/1512-1	AS Soil Particle Size Distribution	5029/S/6425	A03 Sample 5 Depth 1.0m	11/08/2015	26/08/2015
5029/R/1513-1	AS Soil Particle Size Distribution	5029/S/6427	A03 Sample 7 Depth 1.5m	11/08/2015	26/08/2015
5029/R/1514-1	AS Soil Particle Size Distribution	5029/S/6428	A03 Sample 8 Depth 1.8m	11/08/2015	26/08/2015
5029/R/1515-1	AS Soil Particle Size Distribution	5029/S/6429	A03 Sample 9 Depth 2.1m	11/08/2015	26/08/2015
5029/R/1516-1	AS Soil Particle Size Distribution	5029/S/6430	A03 Sample 10 Depth 2.3m	11/08/2015	26/08/2015
5029/R/1517-1	AS Soil Particle Size Distribution	5029/S/6431	A03 Sample 11 Depth 2.6m	11/08/2015	26/08/2015
5029/R/1518-1	AS Soil Particle Size Distribution	5029/S/6432	A03 Sample 12 Depth 2.8m	11/08/2015	26/08/2015
5029/R/1519-1	AS Soil Particle Size Distribution	5029/S/6433	A04 Sample 1 Depth 0.0m	11/08/2015	26/08/2015
5029/R/1520-1	AS Soil Particle Size Distribution	5029/S/6434	A04 Sample 2 Depth 0.3m	11/08/2015	26/08/2015
5029/R/1521-1	AS Soil Particle Size Distribution	5029/S/6435	A04 Sample 3 Depth 0.5m	11/08/2015	26/08/2015
5029/R/1522-1	AS Soil Particle Size Distribution	5029/S/6436	A04 Sample 4 Depth 0.8m	11/08/2015	26/08/2015

# REPORTED TEST SUMMARY

Report Code	Report Type	Samples on Report	Lot Number	Sample Date	Report Date
<b>5029/P/256</b>	<b>Keane Road Pressure Main</b>				
5029/R/1523-1	AS Soil Particle Size Distribution	5029/S/6438	A04 Sample 6 Depth 1.3m	11/08/2015	26/08/2015
5029/R/1524-1	AS Soil Particle Size Distribution	5029/S/6439	A04 Sample 7 Depth 1.5m	11/08/2015	26/08/2015
5029/R/1525-1	AS Soil Particle Size Distribution	5029/S/6440	A04 Sample 8 Depth 1.8m	11/08/2015	26/08/2015
5029/R/1526-1	AS Soil Particle Size Distribution	5029/S/6441	A04 Sample 9 Depth 2.0m	11/08/2015	26/08/2015
5029/R/1527-1	AS Soil Particle Size Distribution	5029/S/6442	A04 Sample 10 Depth 2.3m	11/08/2015	26/08/2015
5029/R/1528-1	AS Soil Particle Size Distribution	5029/S/6444	A04 Sample 12 Depth 2.8m	11/08/2015	26/08/2015
5029/R/1529-1	AS Soil Particle Size Distribution	5029/S/6445	A05 Sample 1 Depth 0.0m	11/08/2015	26/08/2015
5029/R/1530-1	AS Soil Particle Size Distribution	5029/S/6446	A05 Sample 2 Depth 0.2m	11/08/2015	26/08/2015
5029/R/1531-1	AS Soil Particle Size Distribution	5029/S/6447	A05 Sample 3 Depth 0.5m	11/08/2015	26/08/2015
5029/R/1532-1	AS Soil Particle Size Distribution	5029/S/6448	A05 Sample 4 Depth 0.8m	11/08/2015	26/08/2015
5029/R/1533-1	AS Soil Particle Size Distribution	5029/S/6449	A05 Sample 5 Depth 1.0m	11/08/2015	26/08/2015
5029/R/1534-1	AS Soil Particle Size Distribution	5029/S/6450	A05 Sample 6 Depth 1.3m	11/08/2015	26/08/2015
5029/R/1535-1	AS Soil Particle Size Distribution	5029/S/6451	A05 Sample 7 Depth 1.5m	11/08/2015	26/08/2015
5029/R/1536-1	AS Soil Particle Size Distribution	5029/S/6452	A05 Sample 8 Depth 1.8m	11/08/2015	26/08/2015
5029/R/1537-1	AS Soil Particle Size Distribution	5029/S/6455	A05 Sample 11 Depth 2.5m	11/08/2015	26/08/2015
5029/R/1538-1	AS Soil Particle Size Distribution	5029/S/6456	A05 Sample 12 Depth 2.8m	11/08/2015	26/08/2015
5029/R/1539-1	AS Soil Particle Size Distribution	5029/S/6457	A05 Sample 13 Depth 3.5m	11/08/2015	26/08/2015
5029/R/1754-1	Atterberg Limits (with A-Line graph)	5029/S/6437	A04 Sample 5 Depth 1.0m	11/08/2015	05/09/2015
5029/R/1755-1	Atterberg Limits (with A-Line graph)	5029/S/6453	A05 Sample 9 Depth 2.0m	11/08/2015	05/09/2015
5029/R/1756-1	Atterberg Limits (with A-Line graph)	5029/S/6454	A05 Sample 10 Depth 2.2m	11/08/2015	05/09/2015
5029/R/1757-1	AS Soil Particle Size Distribution	5029/S/6458	A05 Sample 15 Depth 4.8m	11/08/2015	05/09/2015
5029/R/1758-1	AS Soil Particle Size Distribution	5029/S/6459	A05 Sample 18 Depth 7.5m	11/08/2015	05/09/2015
5029/R/1759-1	AS Soil Particle Size Distribution	5029/S/6460	A06 Sample 1 Depth 0.0m	11/08/2015	05/09/2015
5029/R/1760-1	AS Soil Particle Size Distribution	5029/S/6461	A06 Sample 2 Depth 0.3m	11/08/2015	05/09/2015
5029/R/1761-1	AS Soil Particle Size Distribution	5029/S/6462	A06 Sample 3 Depth 0.5m	11/08/2015	05/09/2015
5029/R/1762-1	AS Soil Particle Size Distribution	5029/S/6463	A06 Sample 4 Depth 0.7m	11/08/2015	05/09/2015
5029/R/1763-1	AS Soil Particle Size Distribution	5029/S/6464	A06 Sample 5 Depth 1.1m	11/08/2015	05/09/2015
5029/R/1764-1	AS Soil Particle Size Distribution	5029/S/6465	A06 Sample 6 Depth 1.3m	11/08/2015	05/09/2015
5029/R/1765-1	AS Soil Particle Size Distribution	5029/S/6466	A06 Sample 7 Depth 1.4m	11/08/2015	05/09/2015
5029/R/1766-1	Atterberg Limits (with A-Line graph)	5029/S/6467	A06 Sample 8 Depth 1.7m	11/08/2015	05/09/2015
5029/R/1767-1	AS Soil Particle Size Distribution	5029/S/6468	A06 Sample 9 Depth 2.1m	11/08/2015	05/09/2015
5029/R/1768-1	AS Soil Particle Size Distribution	5029/S/6469	A06 Sample 10 Depth 2.3m	11/08/2015	05/09/2015
5029/R/1769-1	AS Soil Particle Size Distribution	5029/S/6470	A06 Sample 12 Depth 2.8m	11/08/2015	05/09/2015
5029/R/1770-1	AS Soil Particle Size Distribution	5029/S/6471	A07 Sample 1 Depth 0.0m	11/08/2015	05/09/2015
5029/R/1771-1	AS Soil Particle Size Distribution	5029/S/6472	A07 Sample 2 Depth 0.3m	11/08/2015	05/09/2015
5029/R/1772-1	Atterberg Limits (with A-Line graph)	5029/S/6473	A07 Sample 3 Depth 0.5m	11/08/2015	05/09/2015
5029/R/1773-1	AS Soil Particle Size Distribution	5029/S/6474	A07 Sample 4 Depth 0.8m	11/08/2015	05/09/2015
5029/R/1774-1	AS Soil Particle Size Distribution	5029/S/6475	A07 Sample 5 Depth 1.0m	11/08/2015	05/09/2015
5029/R/1775-1	AS Soil Particle Size Distribution	5029/S/6476	A07 Sample 6 Depth 1.3m	11/08/2015	05/09/2015
5029/R/1776-1	AS Soil Particle Size Distribution	5029/S/6477	A07 Sample 7 Depth 1.5m	11/08/2015	05/09/2015
5029/R/1777-1	AS Soil Particle Size Distribution	5029/S/6478	A07 Sample 8 Depth 1.8m	11/08/2015	05/09/2015

# REPORTED TEST SUMMARY

Report Code	Report Type	Samples on Report	Lot Number	Sample Date	Report Date
<b>5029/P/256</b>	<b>Keane Road Pressure Main</b>				
5029/R/1778-1	Atterberg Limits (with A-Line graph)	5029/S/6479	A07 Sample 9 Depth 2.0m	11/08/2015	05/09/2015
5029/R/1779-1	AS Soil Particle Size Distribution	5029/S/6480	A07 Sample 10 Depth 2.3m	11/08/2015	05/09/2015
5029/R/1780-1	AS Soil Particle Size Distribution	5029/S/6481	A07 Sample 11 Depth 2.5m	11/08/2015	05/09/2015
5029/R/1781-1	AS Soil Particle Size Distribution	5029/S/6482	A07 Sample 12 Depth 2.8m	11/08/2015	05/09/2015
5029/R/1782-1	AS Soil Particle Size Distribution	5029/S/6483	A08 Sample 1 Depth 0.0m	11/08/2015	05/09/2015
5029/R/1783-1	AS Soil Particle Size Distribution	5029/S/6484	A08 Sample 2 Depth 0.2m	11/08/2015	05/09/2015
5029/R/1784-1	AS Soil Particle Size Distribution	5029/S/6485	A08 Sample 3 Depth 0.5m	11/08/2015	05/09/2015
5029/R/1785-1	AS Soil Particle Size Distribution	5029/S/6486	A08 Sample 4 Depth 0.8m	11/08/2015	05/09/2015
5029/R/1786-1	AS Soil Particle Size Distribution	5029/S/6488	A08 Sample 6 Depth 1.2m	11/08/2015	05/09/2015
5029/R/1787-1	AS Soil Particle Size Distribution	5029/S/6490	A08 Sample 8 Depth 1.8m	11/08/2015	05/09/2015
5029/R/1788-1	Atterberg Limits (with A-Line graph)	5029/S/6491	A08 Sample 9 Depth 2.0m	11/08/2015	05/09/2015
5029/R/1789-1	AS Soil Particle Size Distribution	5029/S/6492	A08 Sample 10 Depth 2.3m	11/08/2015	05/09/2015
5029/R/1790-1	AS Soil Particle Size Distribution	5029/S/6494	A08 Sample 12 Depth 2.8m	11/08/2015	05/09/2015
5029/R/1791-1	AS Soil Particle Size Distribution	5029/S/6497	A09 Sample 3 Depth 0.5m	11/08/2015	05/09/2015
5029/R/1792-1	AS Soil Particle Size Distribution	5029/S/6499	A09 Sample 5 Depth 1.0m	11/08/2015	05/09/2015
5029/R/1793-1	AS Soil Particle Size Distribution	5029/S/6500	A09 Sample 6 Depth 1.4m	11/08/2015	05/09/2015
5029/R/1794-1	AS Soil Particle Size Distribution	5029/S/6501	A09 Sample 7 Depth 1.6m	11/08/2015	05/09/2015
5029/R/1795-1	AS Soil Particle Size Distribution	5029/S/6502	A09 Sample 8 Depth 1.8m	11/08/2015	05/09/2015
5029/R/1796-1	AS Soil Particle Size Distribution	5029/S/6503	A09 Sample 9 Depth 2.0m	11/08/2015	05/09/2015
5029/R/1797-1	AS Soil Particle Size Distribution	5029/S/6505	A09 Sample 11 Depth 2.4m	11/08/2015	05/09/2015
5029/R/1798-1	AS Soil Particle Size Distribution	5029/S/6508	A10 Sample 2 Depth 0.3m	11/08/2015	05/09/2015
5029/R/1799-1	AS Soil Particle Size Distribution	5029/S/6509	A10 Sample 3 Depth 0.5m	11/08/2015	05/09/2015
5029/R/1800-1	AS Soil Particle Size Distribution	5029/S/6510	A10 Sample 4 Depth 0.8m	11/08/2015	05/09/2015
5029/R/1801-1	AS Soil Particle Size Distribution	5029/S/6511	A10 Sample 5 Depth 1.0m	11/08/2015	05/09/2015
5029/R/1802-1	AS Soil Particle Size Distribution	5029/S/6512	A10 Sample 6 Depth 1.3m	11/08/2015	05/09/2015
5029/R/1803-1	AS Soil Particle Size Distribution	5029/S/6513	A11 Sample 1 Depth 0.0m	11/08/2015	05/09/2015
5029/R/1804-1	AS Soil Particle Size Distribution	5029/S/6514	A11 Sample 2 Depth 0.2m	11/08/2015	05/09/2015
5029/R/1805-1	AS Soil Particle Size Distribution	5029/S/6517	A11 Sample 5 Depth 1.0m	11/08/2015	05/09/2015
5029/R/1806-1	AS Soil Particle Size Distribution	5029/S/6518	A11 Sample 6 Depth 1.3m	11/08/2015	05/09/2015
5029/R/1807-1	Atterberg Limits (with A-Line graph)	5029/S/6520	A11 Sample 8 Depth 1.8m	11/08/2015	05/09/2015
5029/R/1808-1	AS Soil Particle Size Distribution	5029/S/6523	A11 Sample 11 Depth 2.4m	11/08/2015	05/09/2015
5029/R/1809-1	AS Soil Particle Size Distribution	5029/S/6526	A12 Sample 2 Depth 0.3m	11/08/2015	05/09/2015
5029/R/1810-1	AS Soil Particle Size Distribution	5029/S/6527	A12 Sample 3 Depth 0.4m	11/08/2015	05/09/2015
5029/R/1811-1	AS Soil Particle Size Distribution	5029/S/6528	A12 Sample 4 Depth 0.8m	11/08/2015	05/09/2015
5029/R/1812-1	Atterberg Limits (with A-Line graph)	5029/S/6529	A12 Sample 5 Depth 1.0m	11/08/2015	05/09/2015
5029/R/1813-1	AS Soil Particle Size Distribution	5029/S/6531	A12 Sample 7 Depth 1.5m	11/08/2015	05/09/2015
5029/R/1814-1	AS Soil Particle Size Distribution	5029/S/6532	A12 Sample 8 Depth 1.8m	11/08/2015	05/09/2015
5029/R/1815-1	AS Soil Particle Size Distribution	5029/S/6534	A12 Sample 10 Depth 2.3m	11/08/2015	05/09/2015
5029/R/1816-1	AS Soil Particle Size Distribution	5029/S/6535	A12 Sample 11 Depth 2.5m	11/08/2015	05/09/2015
5029/R/1817-1	AS Soil Particle Size Distribution	5029/S/6536	A12 Sample 12 Depth 2.8m	11/08/2015	05/09/2015
5029/R/1818-1	AS Soil Particle Size Distribution	5029/S/6538	A13 Sample 2 Depth 0.3m	11/08/2015	05/09/2015

# REPORTED TEST SUMMARY

Report Code	Report Type	Samples on Report	Lot Number	Sample Date	Report Date
<b>5029/P/256</b>	<b>Keane Road Pressure Main</b>				
5029/R/1819-1	AS Soil Particle Size Distribution	5029/S/6539	A13 Sample 3 Depth 0.5m	11/08/2015	05/09/2015
5029/R/1820-1	AS Soil Particle Size Distribution	5029/S/6541	A13 Sample 5 Depth 1.0m	11/08/2015	05/09/2015
5029/R/1821-1	AS Soil Particle Size Distribution	5029/S/6543	A13 Sample 7 Depth 1.5m	11/08/2015	05/09/2015
5029/R/1822-1	AS Soil Particle Size Distribution	5029/S/6544	A13 Sample 8 Depth 1.8m	11/08/2015	05/09/2015
5029/R/1823-1	AS Soil Particle Size Distribution	5029/S/6545	A13 Sample 9 Depth 2.0m	11/08/2015	05/09/2015
5029/R/1824-1	AS Soil Particle Size Distribution	5029/S/6549	A14 Sample 1 Depth 0.0m	11/08/2015	05/09/2015
5029/R/1825-1	AS Soil Particle Size Distribution	5029/S/6551	A14 Sample 3 Depth 0.4m	11/08/2015	05/09/2015
5029/R/1826-1	Atterberg Limits (with A-Line graph)	5029/S/6552	A14 Sample 4 Depth 0.8m	11/08/2015	05/09/2015
5029/R/1831-1	AS Soil Particle Size Distribution	5029/S/6487	A08 Sample 5 Depth 1.0m	11/08/2015	07/09/2015
5029/R/1832-1	AS Soil Particle Size Distribution	5029/S/6493	A08 Sample 11 Depth 2.5m	11/08/2015	07/09/2015
5029/R/1833-1	AS Soil Particle Size Distribution	5029/S/6495	A09 Sample 1 Depth 0.0m	11/08/2015	07/09/2015
5029/R/1834-1	AS Soil Particle Size Distribution	5029/S/6504	A09 Sample 10 Depth 2.3m	11/08/2015	07/09/2015
5029/R/1836-1	AS Soil Particle Size Distribution	5029/S/6506	A09 Sample 12 Depth 2.6m	11/08/2015	07/09/2015
5029/R/1837-1	AS Soil Particle Size Distribution	5029/S/6507	A10 Sample 1 Depth 0.0m	11/08/2015	07/09/2015
5029/R/1839-1	AS Soil Particle Size Distribution	5029/S/6515	A11 Sample 3 Depth 0.5m	11/08/2015	07/09/2015
5029/R/1840-1	AS Soil Particle Size Distribution	5029/S/6516	A11 Sample 4 Depth 0.8m	11/08/2015	07/09/2015
5029/R/1841-1	AS Soil Particle Size Distribution	5029/S/6519	A11 Sample 7 Depth 1.5m	11/08/2015	07/09/2015
5029/R/1842-1	AS Soil Particle Size Distribution	5029/S/6521	A11 Sample 9 Depth 2.0m	11/08/2015	07/09/2015
5029/R/1843-1	AS Soil Particle Size Distribution	5029/S/6522	A11 Sample 10 Depth 2.3m	11/08/2015	07/09/2015
5029/R/1844-1	AS Soil Particle Size Distribution	5029/S/6525	A12 Sample 1 Depth 0.0m	11/08/2015	07/09/2015
5029/R/1845-1	AS Soil Particle Size Distribution	5029/S/6530	A12 Sample 6 Depth 1.3m	11/08/2015	07/09/2015
5029/R/1846-1	Atterberg Limits (with A-Line graph)	5029/S/6533	A12 Sample 9 Depth 2.0m	11/08/2015	07/09/2015
5029/R/1847-1	AS Soil Particle Size Distribution	5029/S/6537	A13 Sample 1 Depth 0.0m	11/08/2015	07/09/2015
5029/R/1849-1	AS Soil Particle Size Distribution	5029/S/6540	A13 Sample 4 Depth 0.8m	11/08/2015	07/09/2015
5029/R/1851-1	AS Soil Particle Size Distribution	5029/S/6546	A13 Sample 10 Depth 2.3m	11/08/2015	07/09/2015
5029/R/1852-1	Atterberg Limits (with A-Line graph)	5029/S/6547	A13 Sample 11 Depth 2.5m	11/08/2015	07/09/2015
5029/R/1855-1	AS Soil Particle Size Distribution	5029/S/6548	A13 Sample 12 Depth 2.8m	11/08/2015	07/09/2015
5029/R/1856-1	AS Soil Particle Size Distribution	5029/S/6550	A14 Sample 2 Depth 0.3m	11/08/2015	07/09/2015
5029/R/1858-1	AS Soil Particle Size Distribution	5029/S/6553	A14 Sample 5 Depth 1.0m	11/08/2015	07/09/2015
5029/R/1860-1	Atterberg Limits (with A-Line graph)	5029/S/6555	A14 Sample 7 Depth 1.5m	11/08/2015	07/09/2015
5029/R/1862-1	AS Soil Particle Size Distribution	5029/S/6556	A14 Sample 8 Depth 1.8m	11/08/2015	07/09/2015
5029/R/1863-1	AS Soil Particle Size Distribution	5029/S/6557	A14 Sample 9 Depth 2.1m	11/08/2015	07/09/2015
5029/R/1865-1	AS Soil Particle Size Distribution	5029/S/6558	A14 Sample 10 Depth 2.3m	11/08/2015	07/09/2015
5029/R/1866-1	AS Soil Particle Size Distribution	5029/S/6561	A15 Sample 1 Depth 0.0m	11/08/2015	07/09/2015
5029/R/1868-1	AS Soil Particle Size Distribution	5029/S/6564	A15 Sample 4 Depth 0.9m	11/08/2015	07/09/2015
5029/R/1869-1	Atterberg Limits (with A-Line graph)	5029/S/6565	A15 Sample 5 Depth 1.0m	11/08/2015	07/09/2015
5029/R/1870-1	Atterberg Limits (with A-Line graph)	5029/S/6569	A15 Sample 9 Depth 2.0m	11/08/2015	07/09/2015
5029/R/1871-1	Atterberg Limits (with A-Line graph)	5029/S/6577	A16 Sample 3 Depth 0.6m	11/08/2015	07/09/2015
5029/R/1878-1	Atterberg Limits (with A-Line graph)	5029/S/6582	A16 Sample 8 Depth 1.8m	11/08/2015	07/09/2015
5029/R/1879-1	Atterberg Limits (with A-Line graph)	5029/S/6589	A17 Sample 3 Depth 0.6m	11/08/2015	07/09/2015
5029/R/1890-1	Atterberg Limits (with A-Line graph)	5029/S/6401	A01 Sample 8 Depth 1.8m	11/08/2015	08/09/2015



# REPORTED TEST SUMMARY

Report Code	Report Type	Samples on Report	Lot Number	Sample Date	Report Date
<b>5029/P/256</b>	<b>Keane Road Pressure Main</b>				
5029/R/1891-1	Atterberg Limits (with A-Line graph)	5029/S/6426	A03 Sample 6 Depth 1.3m	11/08/2015	08/09/2015
5029/R/1892-1	Atterberg Limits (with A-Line graph)	5029/S/6443	A04 Sample 11 Depth 2.5m	11/08/2015	08/09/2015
5029/R/1893-1	Atterberg Limits (with A-Line graph)	5029/S/6489	A08 Sample 7 Depth 1.5m	11/08/2015	08/09/2015
5029/R/1894-1	Atterberg Limits (with A-Line graph)	5029/S/6496	A09 Sample 2 Depth 0.2m	11/08/2015	08/09/2015
5029/R/1895-1	Atterberg Limits (with A-Line graph)	5029/S/6498	A09 Sample 4 Depth 0.8m	11/08/2015	08/09/2015
5029/R/1896-1	Atterberg Limits (with A-Line graph)	5029/S/6524	A11 Sample 12 Depth 2.8m	11/08/2015	08/09/2015
5029/R/1897-1	Atterberg Limits (with A-Line graph)	5029/S/6542	A13 Sample 6 Depth 1.4m	11/08/2015	08/09/2015
5029/R/1949-1	AS Soil Particle Size Distribution	5029/S/6554	A14 Sample 6 Depth 1.3m	11/08/2015	09/09/2015
5029/R/1950-1	AS Soil Particle Size Distribution	5029/S/6559	A14 Sample 11 Depth 2.5m	11/08/2015	09/09/2015
5029/R/1951-1	AS Soil Particle Size Distribution	5029/S/6560	A14 Sample 12 Depth 2.8m	11/08/2015	09/09/2015
5029/R/1952-1	AS Soil Particle Size Distribution	5029/S/6562	A15 Sample 2 Depth 0.2m	11/08/2015	09/09/2015
5029/R/1954-1	AS Soil Particle Size Distribution	5029/S/6563	A15 Sample 3 Depth 0.5m	11/08/2015	09/09/2015
5029/R/1955-1	AS Soil Particle Size Distribution	5029/S/6566	A15 Sample 6 Depth 1.3m	11/08/2015	09/09/2015
5029/R/1956-1	AS Soil Particle Size Distribution	5029/S/6567	A15 Sample 7 Depth 1.5m	11/08/2015	09/09/2015
5029/R/1957-1	AS Soil Particle Size Distribution	5029/S/6568	A15 Sample 8 Depth 1.8m	11/08/2015	09/09/2015
5029/R/1958-1	AS Soil Particle Size Distribution	5029/S/6570	A15 Sample 10 Depth 2.3m	11/08/2015	09/09/2015
5029/R/1959-1	AS Soil Particle Size Distribution	5029/S/6571	A15 Sample 11 Depth 2.5m	11/08/2015	09/09/2015
5029/R/1960-1	AS Soil Particle Size Distribution	5029/S/6572	A15 Sample 12 Depth 2.8m	11/08/2015	09/09/2015
5029/R/1961-1	AS Soil Particle Size Distribution	5029/S/6573	A15 Sample 13 Depth 3.2m	11/08/2015	09/09/2015
5029/R/1962-1	AS Soil Particle Size Distribution	5029/S/6574	A15 Sample 14 Depth 4.2m	11/08/2015	09/09/2015
5029/R/1963-1	AS Soil Particle Size Distribution	5029/S/6575	A16 Sample 1 Depth 0.0m	11/08/2015	09/09/2015
5029/R/1964-1	AS Soil Particle Size Distribution	5029/S/6576	A16 Sample 2 Depth 0.3m	11/08/2015	09/09/2015
5029/R/1965-1	AS Soil Particle Size Distribution	5029/S/6578	A16 Sample 4 Depth 0.8m	11/08/2015	09/09/2015
5029/R/1966-1	AS Soil Particle Size Distribution	5029/S/6579	A16 Sample 5 Depth 1.0m	11/08/2015	09/09/2015
5029/R/1967-1	AS Soil Particle Size Distribution	5029/S/6580	A16 Sample 6 Depth 1.3m	11/08/2015	09/09/2015
5029/R/1968-1	AS Soil Particle Size Distribution	5029/S/6581	A16 Sample 7 Depth 1.5m	11/08/2015	09/09/2015
5029/R/1969-1	AS Soil Particle Size Distribution	5029/S/6583	A16 Sample 9 Depth 2.0m	11/08/2015	09/09/2015
5029/R/1970-1	AS Soil Particle Size Distribution	5029/S/6584	A16 Sample 10 Depth 2.3m	11/08/2015	09/09/2015
5029/R/1971-1	AS Soil Particle Size Distribution	5029/S/6585	A16 Sample 11 Depth 2.5m	11/08/2015	09/09/2015
5029/R/1972-1	AS Soil Particle Size Distribution	5029/S/6586	A16 Sample 12 Depth 2.9m	11/08/2015	09/09/2015
5029/R/1973-1	AS Soil Particle Size Distribution	5029/S/6587	A17 Sample 1 Depth 0.0m	11/08/2015	09/09/2015
5029/R/1974-1	AS Soil Particle Size Distribution	5029/S/6588	A17 Sample 2 Depth 0.3m	11/08/2015	09/09/2015
5029/R/1975-1	AS Soil Particle Size Distribution	5029/S/6590	A17 Sample 4 Depth 0.8m	11/08/2015	09/09/2015
5029/R/1976-1	AS Soil Particle Size Distribution	5029/S/6591	A17 Sample 5 Depth 1.1m	11/08/2015	09/09/2015
5029/R/1977-1	AS Soil Particle Size Distribution	5029/S/6592	A17 Sample 6 Depth 1.3m	11/08/2015	09/09/2015
5029/R/1978-1	Atterberg Limits (with A-Line graph)	5029/S/6593	A17 Sample 7 Depth 1.5m	11/08/2015	09/09/2015
5029/R/1979-1	AS Soil Particle Size Distribution	5029/S/6594	A17 Sample 8 Depth 1.8m	11/08/2015	09/09/2015
5029/R/1980-1	AS Soil Particle Size Distribution	5029/S/6595	A17 Sample 9 Depth 2.0m	11/08/2015	09/09/2015
5029/R/1981-1	AS Soil Particle Size Distribution	5029/S/6596	A17 Sample 10 Depth 2.3m	11/08/2015	09/09/2015
5029/R/1982-1	AS Soil Particle Size Distribution	5029/S/6597	A17 Sample 11 Depth 2.5m	11/08/2015	09/09/2015
5029/R/1983-1	AS Soil Particle Size Distribution	5029/S/6598	A17 Sample 12 Depth 2.9m	11/08/2015	09/09/2015

# REPORTED TEST SUMMARY

Report Code	Report Type	Samples on Report	Lot Number	Sample Date	Report Date
<b>5029/P/256</b>	<b>Keane Road Pressure Main</b>				
5029/R/1984-1	Moisture Content Report	5029/S/6396, 5029/S/6399, 5029/S/6401, 5029/S/6402, 5029/S/6404, 5029/S/6405, 5029/S/6407, 5029/S/6412, 5029/S/6414, 5029/S/6416, 5029/S/6418, 5029/S/6419, 5029/S/6420, 5029/S/6422, 5029/S/6423, 5029/S/6424, 5029/S/6426, 5029/S/6428, 5029/S/6429, 5029/S/6430, 5029/S/6439, 5029/S/6440, 5029/S/6442, 5029/S/6443, 5029/S/6444, 5029/S/6450, 5029/S/6452, 5029/S/6453, 5029/S/6454, 5029/S/6458, 5029/S/6459, 5029/S/6467, 5029/S/6468, 5029/S/6473, 5029/S/6474, 5029/S/6475, 5029/S/6482, 5029/S/6484, 5029/S/6486, 5029/S/6487, 5029/S/6488, 5029/S/6489, 5029/S/6490, 5029/S/6491, 5029/S/6496, 5029/S/6497, 5029/S/6498, 5029/S/6499, 5029/S/6500, 5029/S/6501, 5029/S/6503, 5029/S/6506, 5029/S/6514, 5029/S/6515, 5029/S/6516, 5029/S/6517, 5029/S/6518, 5029/S/6520, 5029/S/6521, 5029/S/6522, 5029/S/6524, 5029/S/6529, 5029/S/6530, 5029/S/6532, 5029/S/6533, 5029/S/6534, 5029/S/6536, 5029/S/6542, 5029/S/6545, 5029/S/6546, 5029/S/6547, 5029/S/6551, 5029/S/6552, 5029/S/6553, 5029/S/6554, 5029/S/6555, 5029/S/6556, 5029/S/6564, 5029/S/6565, 5029/S/6566, 5029/S/6567, 5029/S/6569, 5029/S/6571, 5029/S/6574, 5029/S/6577, 5029/S/6579, 5029/S/6580, 5029/S/6581, 5029/S/6582, 5029/S/6583, 5029/S/6589, 5029/S/6590, 5029/S/6591, 5029/S/6593, 5029/S/6595, 5029/S/6597	A01 Sample 3 Depth 0.6m	11/08/2015	09/09/2015

Table 1: Summary of laboratory testing (soil samples)

Test Pit ID	Sample Depth	Group Symbol	Soil Unit	Moisture Content (%)	Particle Size Distribution			Atterberg Limits				Organic Content %
					% Fines	% Sand	% Gravel	LL%	PL %	PI %	LL %	
A01	0.0	Sand (SP)	Bassendean Sand (BS)		2	98	0					
A01	0.3	Sand (SP)	Bassendean Sand (BS)		3	97	0					
A01	0.5	Sand (SP) / Clayey Sand (SC)	Bassendean Sand (BS) / Guildford Formation (GC)	15.4	12	88	0					<0.5
A01	0.8	Clayey Sand (SC)	Guildford Formation (GC)		20	80	0					
A01	1.0	Clayey Sand (SC)	Guildford Formation (GC)		20	80	0					
A01	1.1	Clayey Sand (SC)	Guildford Formation (GC)	15.2	29	70	1					
A01	1.5	Clayey Sand (SC)	Guildford Formation (GC)		31	69	0					
A01	1.8	Clayey Sand (SC)	Guildford Formation (GC)	14.7	20	80	0	40	12	28	8	<0.5
A01	2.0	Clayey Sand (SC)	Guildford Formation (GC)	14.5	18	82	0					
A01	2.3	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GC)		11	89	0					
A01	2.8	Clayey Sand (SC)	Guildford Formation (GC)	14.0	18	82	0					
A01	3.8	Clayey Sand (SC)	Guildford Formation (GC)	16.6	14	86	0					
A01	6.5	Sand (SP)	Guildford Formation (GS)		10	90	0					
A01	7.5	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GC)	20.6	13	87	0					
A01	8.5	Sand (SP)	Guildford Formation (GS)		10	90	0					
A02	0.0	Sand (SP)	Bassendean Sand (BS)		2	98	0					
A02	0.3	Sand (SP)	Bassendean Sand (BS)		1	99	0					
A02	0.5	Sand (SP)	Bassendean Sand (BS)		4	96	0					
A02	0.8	Clayey Sand (SC)	Guildford Formation (GC)	18.4	23	77	0					
A02	1.0	Clayey Sand (SC)	Guildford Formation (GC)		22	78	0					
A02	1.3	Clayey Sand (SC)	Guildford Formation (GC)	16.5	18	82	0	37	11	26	8	<0.5
A02	1.5	Clayey Sand (SC)	Guildford Formation (GC)		22	78	0					
A02	1.8	Clayey Sand (SC)	Guildford Formation (GC)	17.1	20	80	0					
A02	2.0	Clayey Sand (SC)	Guildford Formation (GC)		19	81	0					
A02	2.3	Clayey Sand (SC)	Guildford Formation (GC)		21	79	0					
A02	2.5	Clayey Sand (SC)	Guildford Formation (GC)	16.4	23	77	0	42	10	32	8.5	<0.5
A02	2.8	Clayey Sand (SC)	Guildford Formation (GC)	15.2	22	78	0					
A03	0.0	Sand (SP)	Bassendean Sand (BS)		2	98	0					
A03	0.2	Clayey Sand (SC)	Guildford Formation (GC)	13.5	15	85	0					
A03	0.5	Clayey Sand (SC)	Guildford Formation (GC)	12.4	18	82	0	29	11	18	3	<0.5
A03	0.7	Clayey Sand (SC)	Guildford Formation (GC)	14.1	15	85	0					
A03	1.0	Clayey Sand (SC)	Guildford Formation (GC)		16	84	0					
A03	1.3	Clayey Sand (SC)	Guildford Formation (GC)	11.9	15	85	0	29	14	15	2	<0.5
A03	1.5	Clayey Sand (SC)	Guildford Formation (GC)		18	82	0					
A03	1.8	Clayey Sand (SC)	Guildford Formation (GC)	14.5	16	84	0					
A03	2.05	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GS)	15.3	11	88	1					
A03	2.3	Sand (SP)	Guildford Formation (GS)	17.3	10	90	0					
A03	2.6	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GS)		12	88	0					
A03	2.8	Clayey Sand (SC)	Guildford Formation (GS)		14	86	0					
A04	0.0	Sand (SP)	Bassendean Sand (BS)		1	99	0					
A04	0.3	Sand (SP)	Bassendean Sand (BS)		1	99	0					
A04	0.5	Sand (SP)	Bassendean Sand (BS)		1	99	0					
A04	0.8	Sand (SP)	Bassendean Sand (BS)		7	93	0					
A04	1.0	Sand (SP) / Clayey Sand (SC)	Bassendean Sand (BS)		11	89	0	28	13	15	2	<0.5
A04	1.3	Clayey Sand (SC)	Guildford Formation (GC)		14	86	0					
A04	1.5	Clayey Sand (SC)	Guildford Formation (GC)	20.3	13	87	0					
A04	1.8	Clayey Sand (SC)	Guildford Formation (GC)	16.9	15	85	0					

Test Pit ID	Sample Depth	Group Symbol	Soil Unit	Moisture Content (%)	Particle Size Distribution			Atterberg Limits				Organic Content %
					% Fines	% Sand	% Gravel	LL%	PL %	PI %	LL %	
A04	2.0	Clayey Sand (SC)	Guildford Formation (GC)		13	87	0					
A04	2.3	Clayey Sand (SC)	Guildford Formation (GC)	15.3	15	85	0					
A04	2.5	Clayey Sand (SC)	Guildford Formation (GC)	14.3	19	81	0	32	11	21	5	<0.5
A04	2.8	Clayey Sand (SC)	Guildford Formation (GC)	14.2	18	82	0					
A05	0.0	Sand (SP)	Bassendean Sand (BS)		2	98	0					
A05	0.2	Sand (SP)	Bassendean Sand (BS)		3	97	0					
A05	0.5	Sand (SP)	Bassendean Sand (BS)		2	98	0					
A05	0.8	Sand (SP)	Bassendean Sand (BS)		2	98	0					
A05	1.0	Sand (SP)	Bassendean Sand (BS)		6	94	0					
A05	1.3	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GC)	16.2	12	88	0					
A05	1.5	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GC)		11	89	0					
A05	1.8	Clayey Sand (SC)	Guildford Formation (GC)	15.5	17	83	0					
A05	2.0	Clayey Sand (SC)	Guildford Formation (GC)	13.6	18	82	0	23	13	10	2.5	<0.5
A05	2.2	Clayey Sand (SC)	Guildford Formation (GC)	16.0	13	87	0	27	15	12	3	<0.5
A05	2.5	Sand (SP)	Guildford Formation (GS)		8	92	0					
A05	2.8	Sand (SP)	Guildford Formation (GS)		10	90	0					
A05	3.5	Sand (SP)	Guildford Formation (GS)		6	94	0					
A05	4.8	Sand (SP)	Guildford Formation (GS)	13.6	9	90	1					
A05	7.5	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GS)	21.6	12	88	0					
A06	0.0	Sand (SP)	Bassendean Sand (BS)		2	98	0					
A06	0.3	Sand (SP)	Bassendean Sand (BS)		2	98	0					
A06	0.5	Sand (SP)	Bassendean Sand (BS)		1	99	0					
A06	0.7	Sand (SP)	Bassendean Sand (BS)		4	96	0					
A06	1.0	Sand (SP)	Bassendean Sand (BS)		6	94	0					
A06	1.3	Sand (SP)	Bassendean Sand (BS)		9	91	0					
A06	1.4	Sand (SP)	Bassendean Sand (BS)		8	92	0					
A06	1.7	Clayey Sand (SC)	Guildford Formation (GC)	13.7	16	84	0	22	12	10	3	<0.5
A06	2.0	Sand (SP)	Guildford Formation (GS)	13.0	10	90	0					
A06	2.3	Sand (SP)	Guildford Formation (GS)		10	90	0					
A06	2.8	Clayey Sand (SC)	Guildford Formation (GS)		13	87	0					
A07	0.0	Sand (SP)	Bassendean Sand (BS)		10	90	0					
A07	0.3	Sand (SP)	Bassendean Sand (BS)		7	93	0					
A07	0.5	Clayey Sand (SC)	Guildford Formation (GC)	18.8	25	69	6	35	25	10	7.5	<0.5
A07	0.8	Clayey Sand (SC)	Guildford Formation (GC)	16.6	28	63	9					
A07	1.0	Clayey Sand (SC)	Guildford Formation (GC)	17.4	29	71	0					
A07	1.3	Clayey Sand (SC)	Guildford Formation (GC)		25	75	0					
A07	1.5	Clayey Sand (SC)	Guildford Formation (GC)		16	84	0					
A07	1.8	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GS)		11	89	0					
A07	2.0	Sand (SP)	Guildford Formation (GS)		7	93	0					
A07	2.3	Sand (SP)	Guildford Formation (GS)		7	93	0					
A07	2.5	Sand (SP)	Guildford Formation (GS)		7	93	0					
A07	2.8	Clayey Sand (SC)	Guildford Formation (GC)	12.5	16	84	0					
A08	0.0	Sand (SP)	Bassendean Sand (BS)		4	96	0					
A08	0.2	Clayey Sand (SC)	Guildford Formation (GC)	10.5	14	86	0					
A08	0.5	Clayey Sand (SC)	Guildford Formation (GC)		16	84	0					
A08	0.8	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GC)	9.7	12	88	0					
A08	1.0	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GC)	12.5	12	88	0					
A08	1.2	Clayey Sand (SC)	Guildford Formation (GC)	12.7	15	85	0					

Test Pit ID	Sample Depth	Group Symbol	Soil Unit	Moisture Content (%)	Particle Size Distribution			Atterberg Limits				Organic Content %	
					% Fines	% Sand	% Gravel	LL%	PL %	PI %	LL %		
A08	1.5	Clayey Sand (SC)	Guildford Formation (GC)	11.8	17	83	0						<0.5
A08	1.8	Clayey Sand (SC)	Guildford Formation (GC)	12.0	14	86	0						
A08	2.0	Clayey Sand (SC)	Guildford Formation (GC)	13.7	17	83	0	22	12	10	2		<0.5
A08	2.3	Sand (SP) / Clayey Sand (SC)	Bassendean Sand (BS)		11	89	0						
A08	2.5	Sand (SP)	Bassendean Sand (BS)		9	91	0						
A08	2.8	Sand (SP)	Bassendean Sand (BS)		10	90	0						
A09	0.0	Sand (SP)	Bassendean Sand (BS)		6	94	0						
A09	0.2	Clayey Sand (SC)	Guildford Formation (GC)	11.3	21	79	0	28	12	16	6		<0.5
A09	0.5	Clayey Sand (SC)	Guildford Formation (GC)	14.5	16	84	0						
A09	0.8	Clayey Sand (SC)	Guildford Formation (GC)	11.4	21	78	1	30	12	18	5.5		<0.5
A09	1.0	Sand (SP)	Guildford Formation (GS)	11.5	3	97	0						
A09	1.3	Clayey Sand (SC)	Guildford Formation (GC)	15.2	23	77	0						
A09	1.5	Clayey Sand (SC)	Guildford Formation (GC)	13.4	21	79	0						
A09	1.8	Sand (SP)	Guildford Formation (GS)		6	94	0						
A09	2.0	Clayey Sand (SC)	Guildford Formation (GC)	14.0	19	81	0						
A09	2.3	Clayey Sand (SC)	Guildford Formation (GC)		18	82	0						
A09	2.4	Clayey Sand (SC)	Guildford Formation (GC)		15	85	0						
A09	2.5	Clayey Sand (SC)	Guildford Formation (GC)	16.3	14	86	0						
A10	0.0	Sand (SP)	Bassendean Sand (BS)		2	98	0						
A10	0.3	Sand (SP)	Bassendean Sand (BS)		2	98	0						
A10	0.5	Sand (SP)	Bassendean Sand (BS)		1	99	0						
A10	0.8	Sand (SP)	Bassendean Sand (BS)		3	97	0						
A10	1	Sand (SP)	Bassendean Sand (BS)		2	98	0						
A10	1.3	Sand (SP)	Bassendean Sand (BS)		2	98	0						
A11	0.0	Sand (SP)	Bassendean Sand (BS)		2	98	0						
A11	0.1	Clayey Sand (SC)	Guildford Formation (GC)	16.0	20	80	0						
A11	0.5	Clayey Sand (SC)	Guildford Formation (GC)	16.7	30	70	0						
A11	0.8	Clayey Sand (SC)	Guildford Formation (GC)	13.3	24	76	0						
A11	1.0	Clayey Sand (SC)	Guildford Formation (GC)	14.9	23	77	0						
A11	1.3	Clayey Sand (SC)	Guildford Formation (GC)	18.5	30	70	0						
A11	1.5	Clayey Sand (SC)	Guildford Formation (GC)		26	74	0						
A11	1.8	Clayey Sand (SC)	Guildford Formation (GC)	18.8	26	73	1	47	14	33	14		<0.5
A11	2	Clayey Sand (SC)	Guildford Formation (GC)	18.9	21	79	0						
A11	2.3	Clayey Sand (SC)	Guildford Formation (GC)	16.4	18	82	0						
A11	2.4	Sand (SP)	Guildford Formation (GS)		6	94	0						
A11	2.8	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GS)	17.0	12	88	0	28	11	17	4		0.6
A12	0.0	Sand (SP)	Bassendean Sand (BS)		2	98	0						
A12	0.3	Sand (SP)	Bassendean Sand (BS)		2	98	0						
A12	0.4	Sand (SP)	Bassendean Sand (BS)		3	97	0						
A12	0.8	Sand (SP)	Bassendean Sand (BS)		8	92	0						
A12	1.0	Clayey Sand (SC)	Guildford Formation (GC)	13.6	13	77	10						0.9
A12	1.3	Clayey Sand (SC)	Guildford Formation (GC)	12.4	16	60	24						
A12	1.5	Clayey Sand (SC)	Guildford Formation (GC)		19	81	0						
A12	1.8	Clayey Sand (SC)	Guildford Formation (GC)	14.0	20	80	0						
A12	2.0	Clayey Sand (SC)	Guildford Formation (GC)	13.7	21	79	0	25	10	15	4.5		<0.5
A12	2.3	Clayey Sand (SC)	Guildford Formation (GC)	13.4	18	82	0						
A12	2.5	Clayey Sand (SC)	Guildford Formation (GC)		14	86	0						
A12	2.8	Clayey Sand (SC)	Guildford Formation (GC)	15.1	14	86	0						
A13	0.0	Sand (SP)	Bassendean Sand (BS)		4	96	0						
A13	0.3	Sand (SP)	Bassendean Sand (BS)		6	94	0						
A13	0.5	Sand (SP)	Bassendean Sand (BS)		3	97	0						

Test Pit ID	Sample Depth	Group Symbol	Soil Unit	Moisture Content (%)	Particle Size Distribution			Atterberg Limits				Organic Content %
					% Fines	% Sand	% Gravel	LL%	PL %	PI %	LL %	
A13	0.8	Sand (SP)	Bassendean Sand (BS)		4	96	0					
A13	1.0	Sand (SP)	Bassendean Sand (BS)		11	89	0					
A13	1.3	Clayey Sand (SC)	Guildford Formation (GC)	16.0	20	80	0	32	11	21	3	<0.5
A13	1.5	Clayey Sand (SC)	Guildford Formation (GC)		21	79	0					
A13	1.8	Clayey Sand (SC)	Guildford Formation (GC)		22	78	0					
A13	2.0	Clayey Sand (SC)	Guildford Formation (GC)	20.0	25	75	0					
A13	2.3	Clayey Sand (SC)	Guildford Formation (GC)	18.1	19	81	0					
A13	2.5	Clayey Sand (SC)	Guildford Formation (GC)	18.5	20	80	0	70	12	58	9	<0.5
A13	2.8	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GC)		12	88	0					
A14	0.0	Sand (SP)	Bassendean Sand (BS)		1	99	0					
A14	0.3	Sand (SP)	Bassendean Sand (BS)		7	93	0					
A14	0.4	Clayey Sand (SC)	Guildford Formation (GC)	20.3	13	87	0					
A14	0.8	Clayey Sand (SC)	Guildford Formation (GC)	18.9	15	85	0	40	13	27	9	<0.5
A14	1.0	Clayey Sand (SC)	Guildford Formation (GC)	13.5	16	84	0					
A14	1.3	Sand (SP)	Guildford Formation (GS)	10.6	11	89	0					
A14	1.5	Sand (SP)	Guildford Formation (GS)	12.1	11	89	0	26	11	15	4.5	<0.5
A14	1.8	Clayey Sand (SC)	Guildford Formation (GC)	14.5	15	85	0					
A14	2.0	Clayey Sand (SC)	Guildford Formation (GS)		13	87	0					
A14	2.3	Sand (SP)	Guildford Formation (GS)		8	92	0					
A14	2.5	Sand (SP)	Guildford Formation (GS)		5	95	0					
A14	2.8	Sand (SP)	Guildford Formation (GS)		8	92	0					
A15	0.0	Clayey Sand (SC)	Guildford Formation (GC)		34	66	0					
A15	0.2	Clayey Sand (SC)	Guildford Formation (GC)		13	87	0					
A15	0.5	Clayey Sand (SC)	Guildford Formation (GC)		13	87	0					
A15	0.9	Clayey Sand (SC)	Guildford Formation (GC)	19.1	17	83	0					
A15	1.0	Clayey Sand (SC)	Guildford Formation (GC)	21.2	20	73	7	36	12	24	8.5	<0.5
A15	1.3	Clayey Sand (SC)	Guildford Formation (GC)	21.6	27	73	0					
A15	1.5	Clayey Sand (SC)	Guildford Formation (GC)	26.3	24	76	0					
A15	1.8	Clayey Sand (SC)	Guildford Formation (GC)		20	80	0					
A15	2.0	Clayey Sand (SC)	Guildford Formation (GC)	14.5	18	82	0	37	12	25	7.5	<0.5
A15	2.3	Clayey Sand (SC)	Guildford Formation (GC)		13	87	0					
A15	2.5	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GC)	15.9	12	88	0					
A15	2.8	Sand (SP)	Guildford Formation (GS)		5	95	0					
A15	3.2	Sand (SP)	Guildford Formation (GS)		5	95	0					
A15	4.2	Sand (SP)	Guildford Formation (GS)	17.1	10	90	0					
A16	0.0	Sand (SP)	Bassendean Sand (BS)		3	97	0					
A16	0.3	Sand (SP)	Bassendean Sand (BS)		1	99	0					
A16	0.6	Clayey Sand (SC)	Guildford Formation (GC)	28.2	29	71	0	78	16	62	17	<0.5
A16	0.8	Clayey Sand (SC)	Guildford Formation (GC)		26	74	0					
A16	1.0	Clayey Sand (SC)	Guildford Formation (GC)	21.1	35	65	0					
A16	1.3	Clayey Sand (SC)	Guildford Formation (GC)	26.1	37	63	0					
A16	1.5	Clayey Sand (SC)	Guildford Formation (GC)	25.2	42	58	0					
A16	1.8	Clayey Sand (SC)	Guildford Formation (GC)	24.7	35	65	0	37	13	24	11	<0.5
A16	2.0	Clayey Sand (SC)	Guildford Formation (GC)	22.9	33	67	0					
A16	2.3	Clayey Sand (SC)	Guildford Formation (GC)		24	76	0					
A16	2.5	Sand (SP) / Clayey Sand (SC)	Guildford Formation (GC)		12	88	0					
A16	2.9	Sand (SP)	Guildford Formation (GS)		6	94	0					
A17	0.0	Sand (SP)	Bassendean Sand (BS)		7	93	0					
A17	0.3	Sand (SP)	Bassendean Sand (BS)		6	94	0					
A17	0.6	Clayey Sand (SC)	Guildford Formation (GC)	21.9	27	69	4	43	21	22	8.5	<0.5

Test Pit ID	Sample Depth	Group Symbol	Soil Unit	Moisture Content (%)	Particle Size Distribution			Atterberg Limits				Organic Content %
					% Fines	% Sand	% Gravel	LL%	PL %	PI %	LL %	
A17	0.8	Clayey Sand (SC)	Guildford Formation (GC)	22.5	26	74	0					
A17	1.0	Clayey Sand (SC)	Guildford Formation (GC)	21.3	37	63	0					
A17	1.3	Clayey Sand (SC)	Guildford Formation (GC)		45	55	0					
A17	1.5	Clayey Sand (SC)	Guildford Formation (GC)	25.2	50	50	0	67	15	52	15	<0.5
A17	1.8	Clayey Sand (SC)	Guildford Formation (GC)		52	48	0					
A17	2.0	Clayey Sand (SC)	Guildford Formation (GC)	30.7	47	53	0					
A17	2.3	Clayey Sand (SC)	Guildford Formation (GC)		36	64	0					
A17	2.5	Clayey Sand (SC)	Guildford Formation (GC)	19.0	20	80	0					
A17	2.9	Clayey Sand (SC)	Guildford Formation (GC)		16	84	0					

Notes: Fines < 0.075mm      0.075 mm < Sand < 2.36mm      2.36 mm < gravel < 63 mm  
LL = liquid limit      PL = plastic limit      PI = plasticity index      LS = linear shrinkage  
Testing standards used: AS 1289.2.1.1 (moisture content), 3.6.1 (PSD) & 3.6.3 (PSD and hydrometer)      AS 1289.3.1.2, 3.3.1 and 3.4.1 (Atterberg Limits)  
ASTM: D2974-07a Test Method C (organic content)

**Table 2: Summary of laboratory testing (water samples)**

Sample Depth	Electrical Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Major Cations				Ionic Balance		
						Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Total Anions (meq/L)	Total Cations (meq/L)	Ionic Balance (%)
A01 Shallow	286	654	100	<10	32	23	5	42	7	2.90	3.56	10.3
A01 Deep	2430	2940	145	112	690	10	35	429	5	24.7	22.2	5.41
A05 Shallow	166	2360	57	<1	17	7	4	29	<1	1.62	1.94	-
A05 Deep	5450	4820	104	64	1820	36	126	891	9	54.8	51.2	3.41
A07	3410	1880	202	30	1020	15	32	622	8	33.4	30.6	4.38
A15	3710	2490	419	541	668	16	26	738	8	38.5	35.2	4.42
AR5	33600	2000	531	147	724	11	37	624	6	34.1	30.9	4.96
AR6	2860	2790	<1	643	556	16	79	432	4	29.1	26.2	5.23
BH06 North	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
BH06 South	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
BH13	12300	6900	65	143	4270	52	224	2220	13	125	118	2.82

Notes: Fines < 0.075mm      0.075 mm < Sand < 2.  
Testing standards used: APHA 2510 B & APHA 2540 B

# Appendix G – PSD test results

*G1: PSD test results*

*G2: Hydrometer test results*

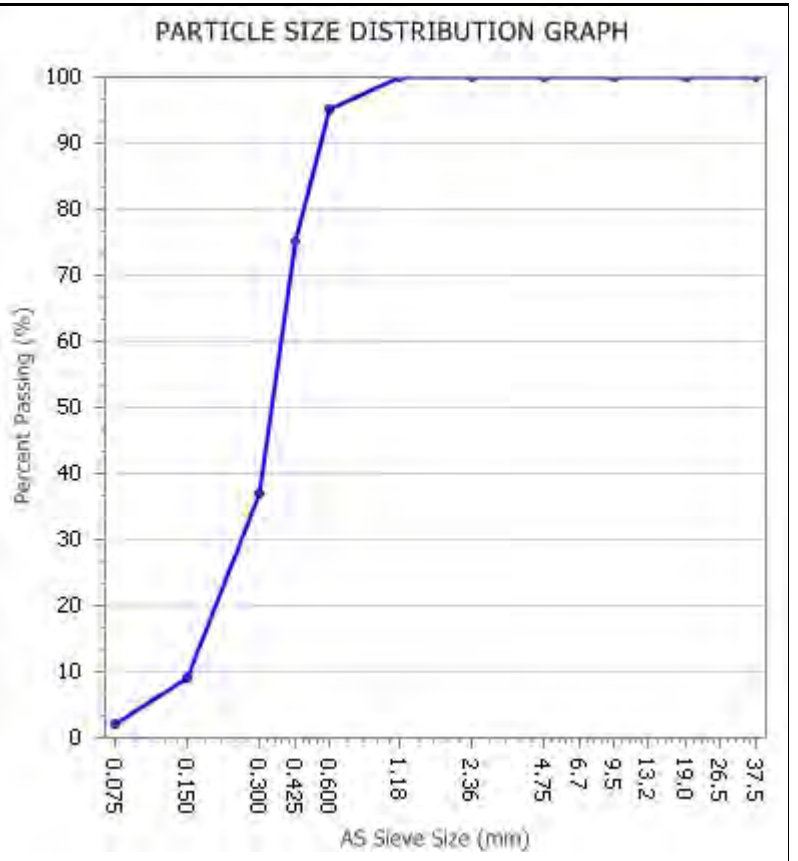


## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1472-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A01 Sample 1 Depth 0.0m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6394</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 19/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Yellow SAND</p>
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AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		75	
0.300		37	
0.150		9	
0.075		2	




Remarks



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.  
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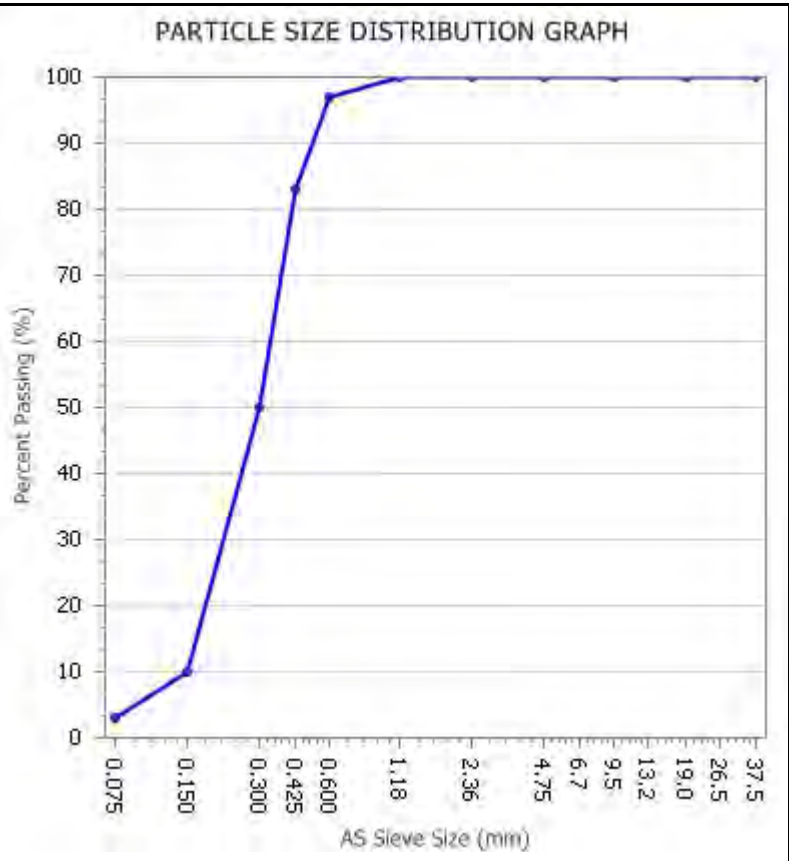
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1473-1 Project Number: 5029/P/256 Lot Number: A01 Sample 2 Depth 0.4m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6395 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow SAND
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AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		97	
0.425		83	
0.300		50	
0.150		10	
0.075		3	




Remarks



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Accreditation Number: 5029



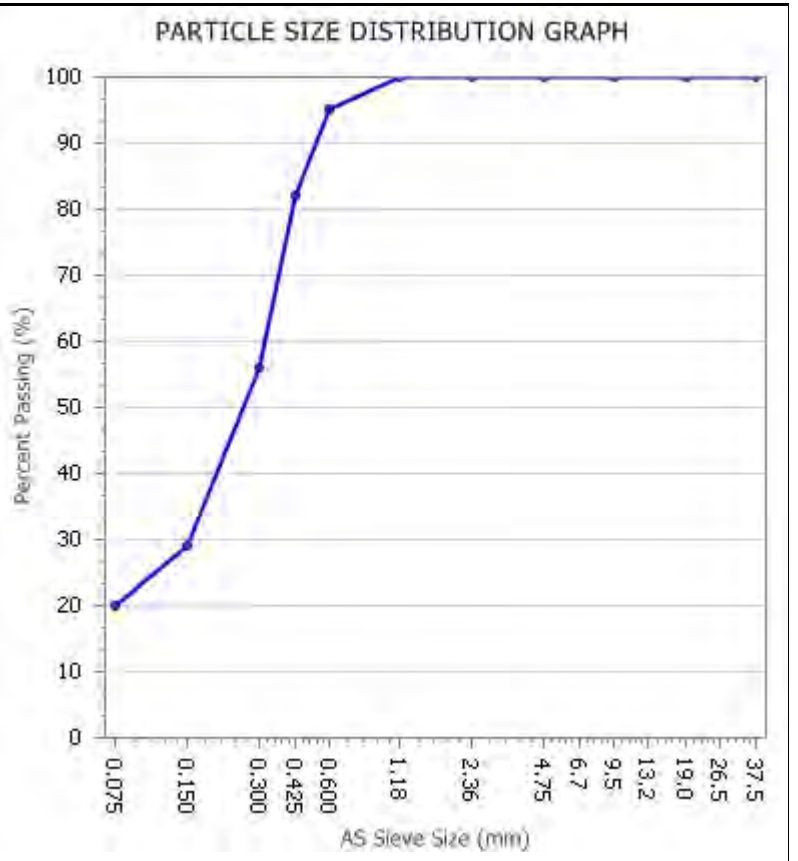
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1475-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A01 Sample 4 Depth 0.8m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6397</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 25/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Grey Silty SAND</p>
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AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		82	
0.300		56	
0.150		29	
0.075		20	




Remarks



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Approved Signatory: Janine Fischer

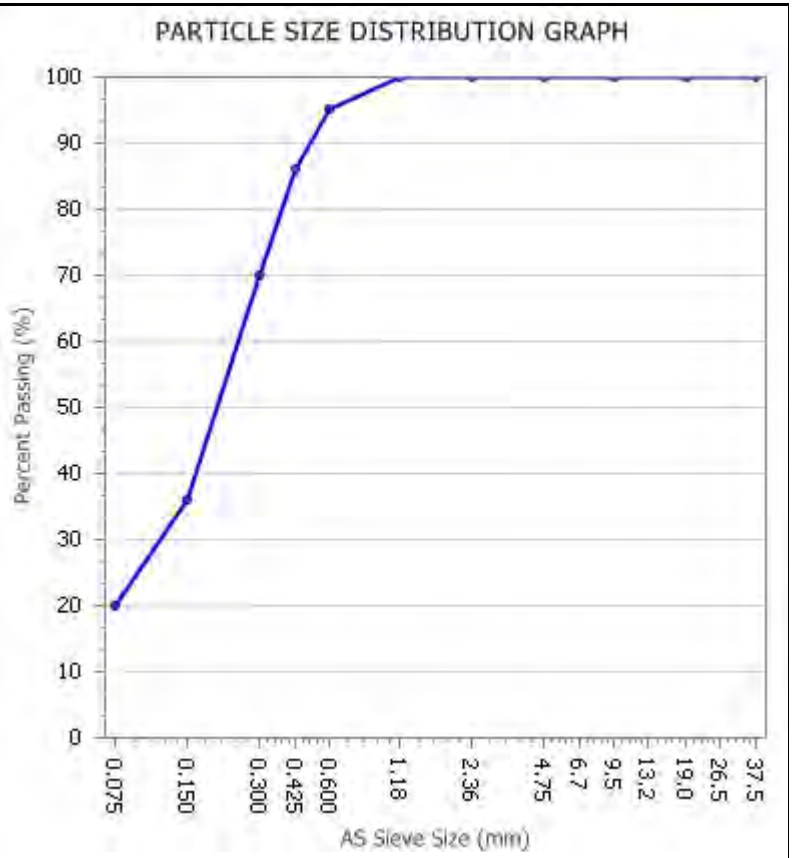
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1493-1 Project Number: 5029/P/256 Lot Number: A01 Sample 5 Depth 1.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6398 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		86	
0.300		70	
0.150		36	
0.075		20	




Remarks



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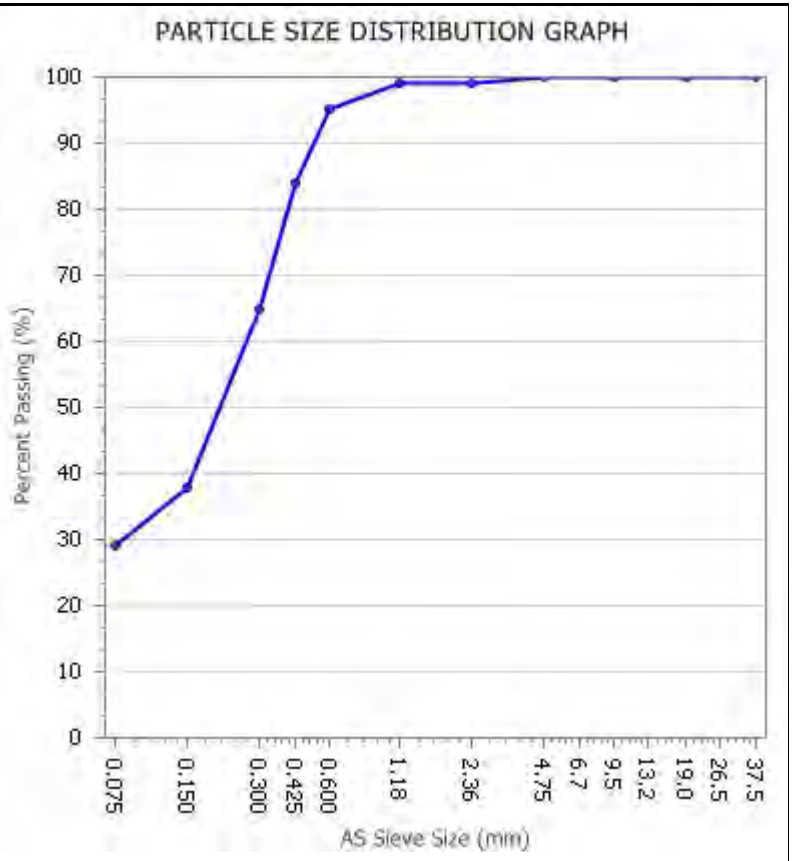
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1476-1 Project Number: 5029/P/256 Lot Number: A01 Sample 6 Depth 1.2m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6399 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
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AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		99	
1.18		99	
0.600		95	
0.425		84	
0.300		65	
0.150		38	
0.075		29	



Remarks



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 Accredited for compliance with ISO/IEC 17025

Accreditation Number: 5029

*Janine Fischer*

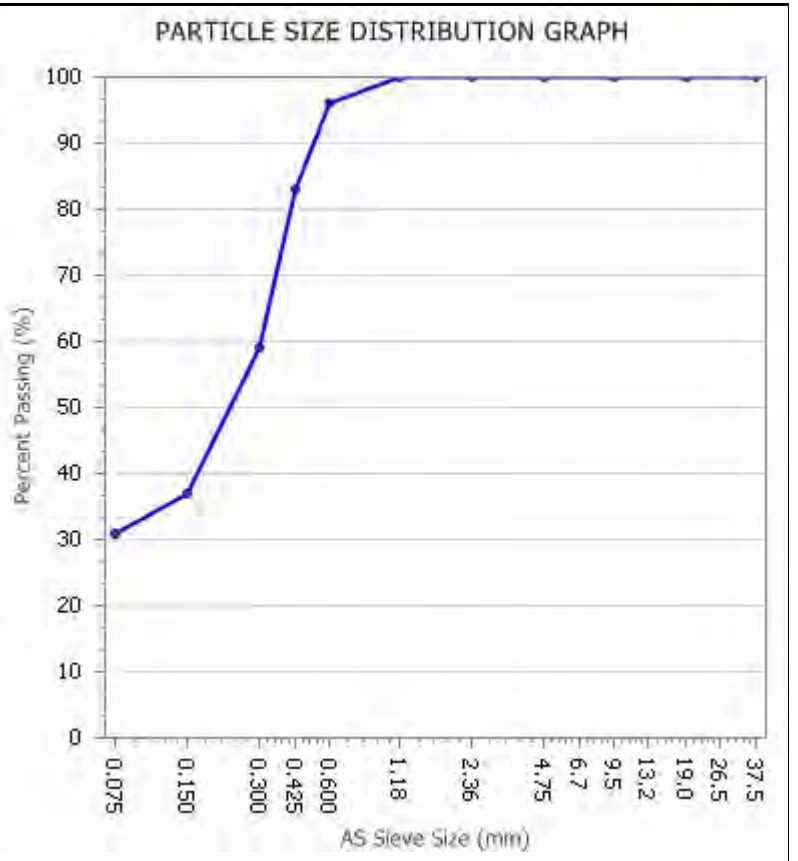
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1477-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A01 Sample 7 Depth 1.5m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6400</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 19/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Brown SAND</p>
--	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		83	
0.300		59	
0.150		37	
0.075		31	




Remarks



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.  
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Accreditation Number: 5029



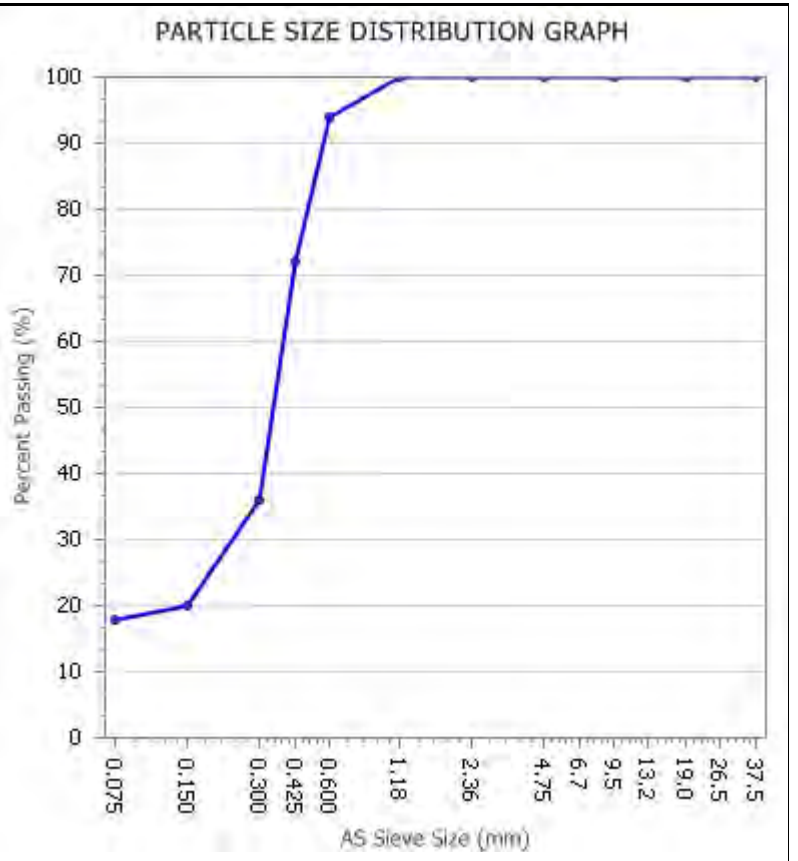
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1478-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A01 Sample 9 Depth 2.0m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6402</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 19/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Grey Silty SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		94	
0.425		72	
0.300		36	
0.150		20	
0.075		18	




Remarks



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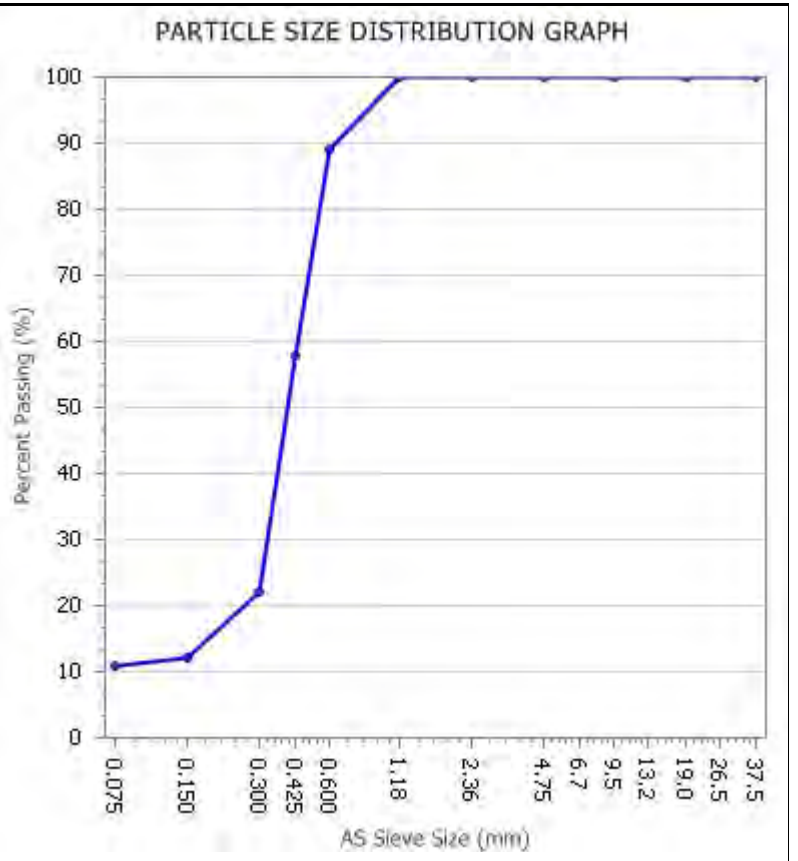
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1479-1 Project Number: 5029/P/256 Lot Number: A01 Sample 10 Depth 2.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6403 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		89	
0.425		58	
0.300		22	
0.150		12	
0.075		11	



Remarks

	<p>The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.          Accredited for compliance with ISO/IEC 17025</p>	
	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

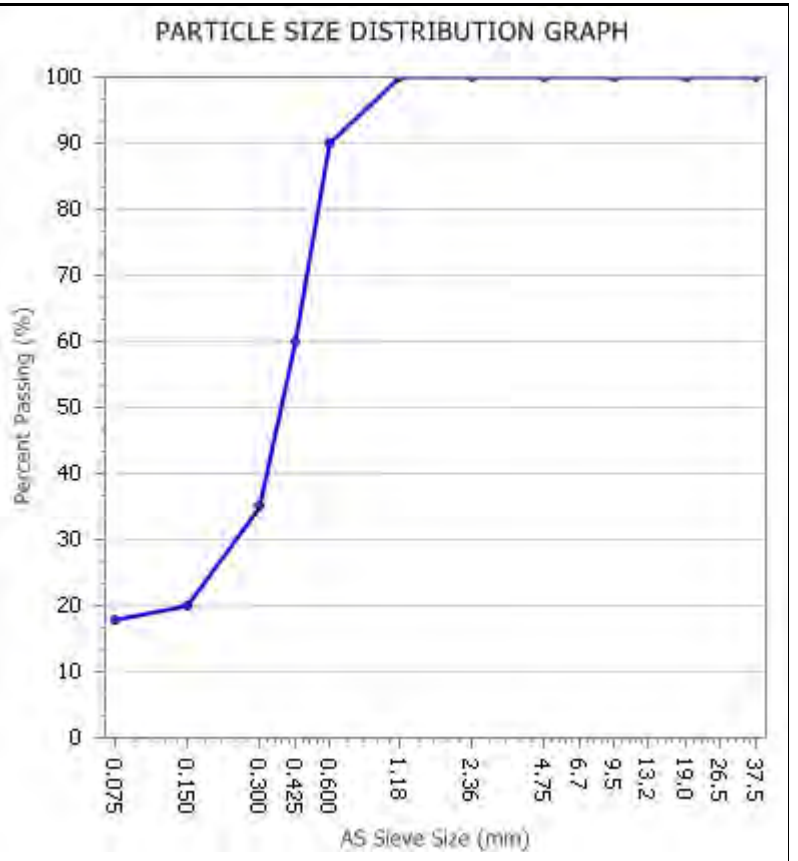


## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1480-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A01 Sample 11 Depth 2.8m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6404</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 19/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Grey Silty SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		90	
0.425		60	
0.300		35	
0.150		20	
0.075		18	




Remarks



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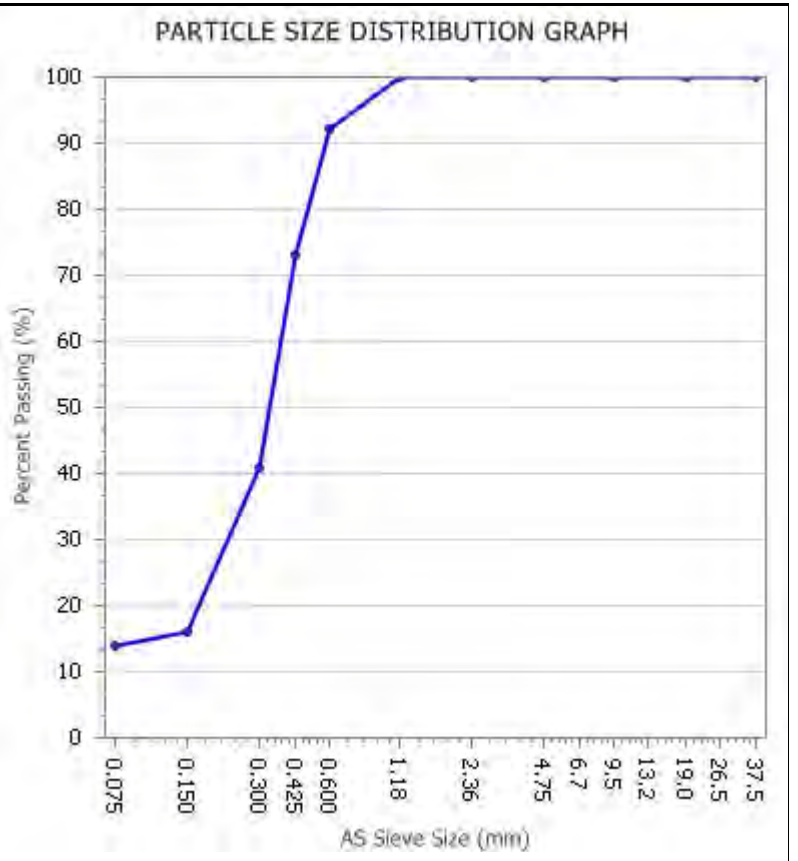
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1481-1 Project Number: 5029/P/256 Lot Number: A01 Sample 13 Depth 3.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6405 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		92	
0.425		73	
0.300		41	
0.150		16	
0.075		14	



Remarks

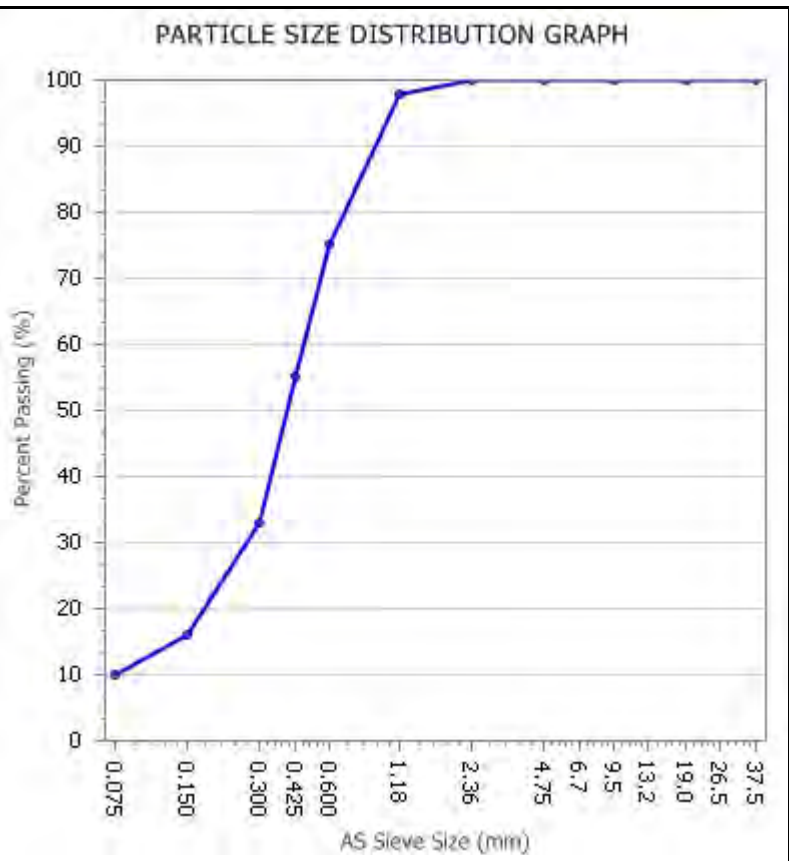
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1482-1 Project Number: 5029/P/256 Lot Number: A01 Sample 15 Depth 6.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 25/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6406 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		98	
0.600		75	
0.425		55	
0.300		33	
0.150		16	
0.075		10	



Remarks

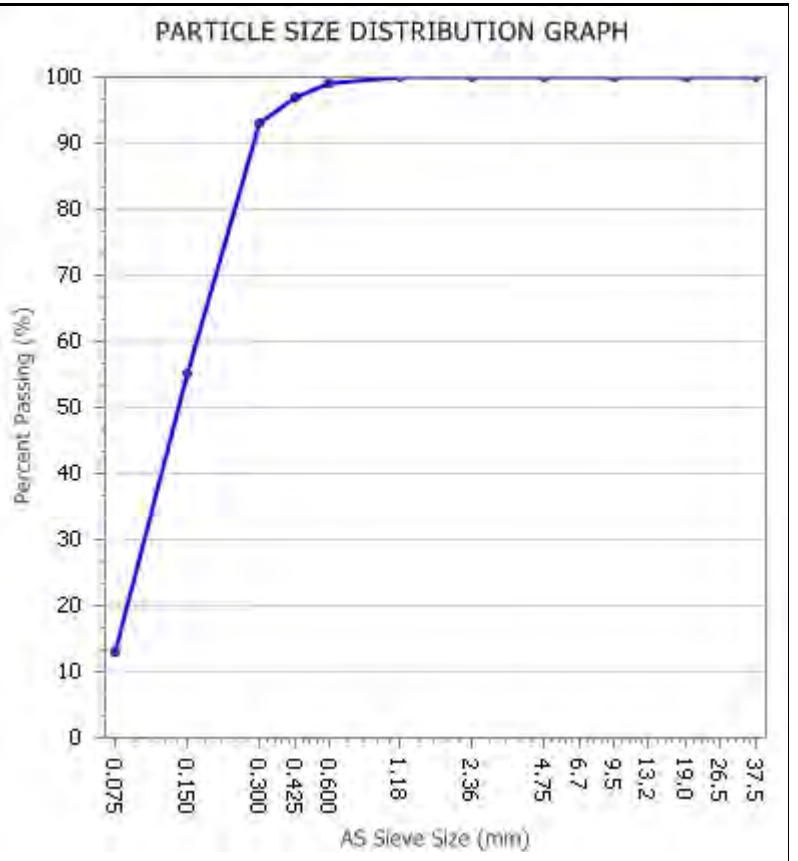
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## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1494-1 Project Number: 5029/P/256 Lot Number: A01 Sample 16 Depth 7.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6407 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		99	
0.425		97	
0.300		93	
0.150		55	
0.075		13	



Remarks



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Accreditation Number: 5029

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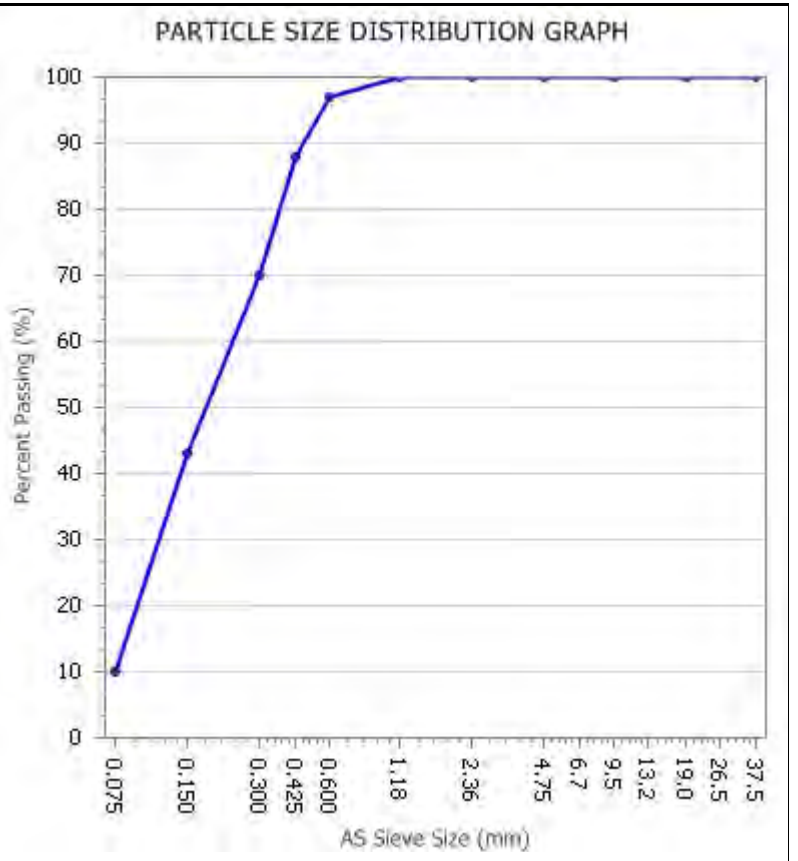
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1495-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A01 Sample 17 Depth 8.5m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span></p>
---	--

<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6408</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 19/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Grey Silty SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		97	
0.425		88	
0.300		70	
0.150		43	
0.075		10	




Remarks



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Accreditation Number: 5029



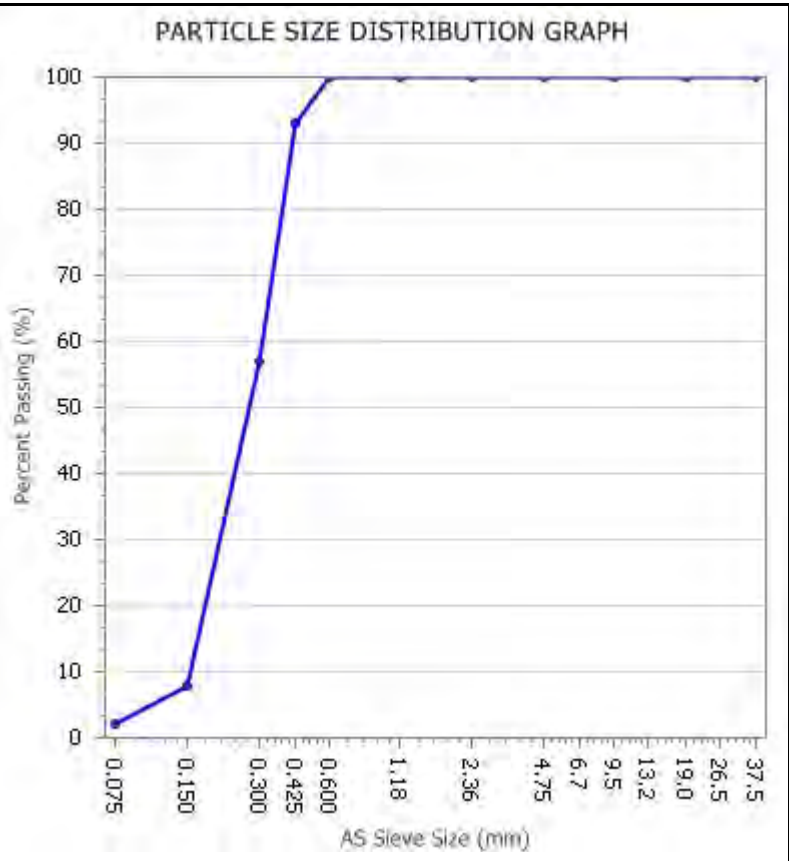
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1496-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A02 Sample 1 Depth 0.0m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6409</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 19/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Grey SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		100	
0.425		93	
0.300		57	
0.150		8	
0.075		2	




Remarks



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Accreditation Number: 5029



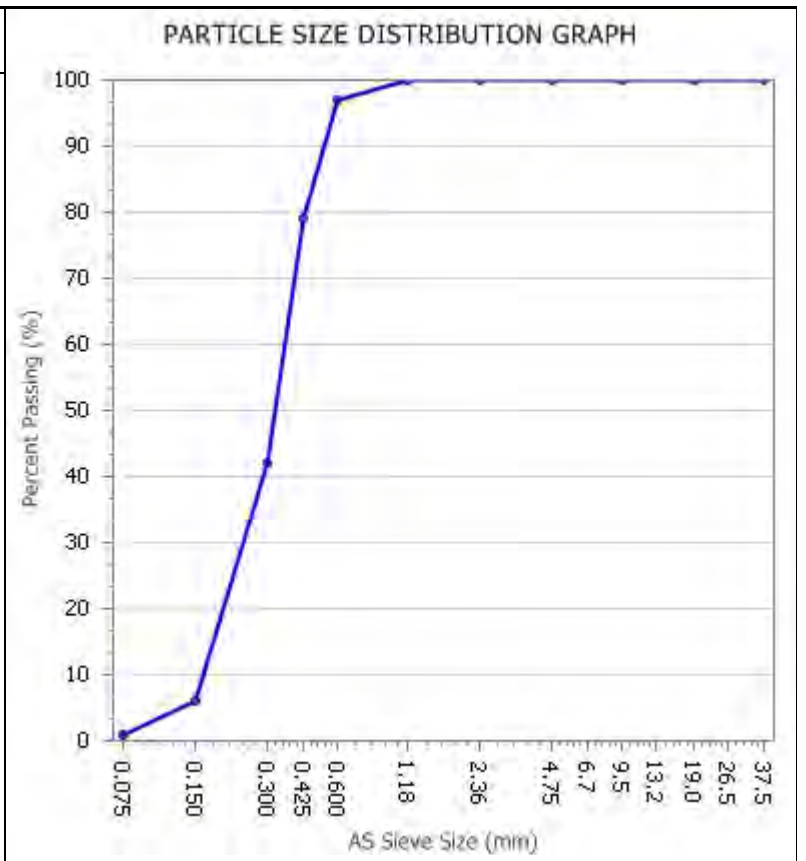
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1497-1 Project Number: 5029/P/256 Lot Number: A02 Sample 2 Depth 0.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6410 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		97	
0.425		79	
0.300		42	
0.150		6	
0.075		1	



Remarks



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Accreditation Number: 5029

*Janine Fischer*

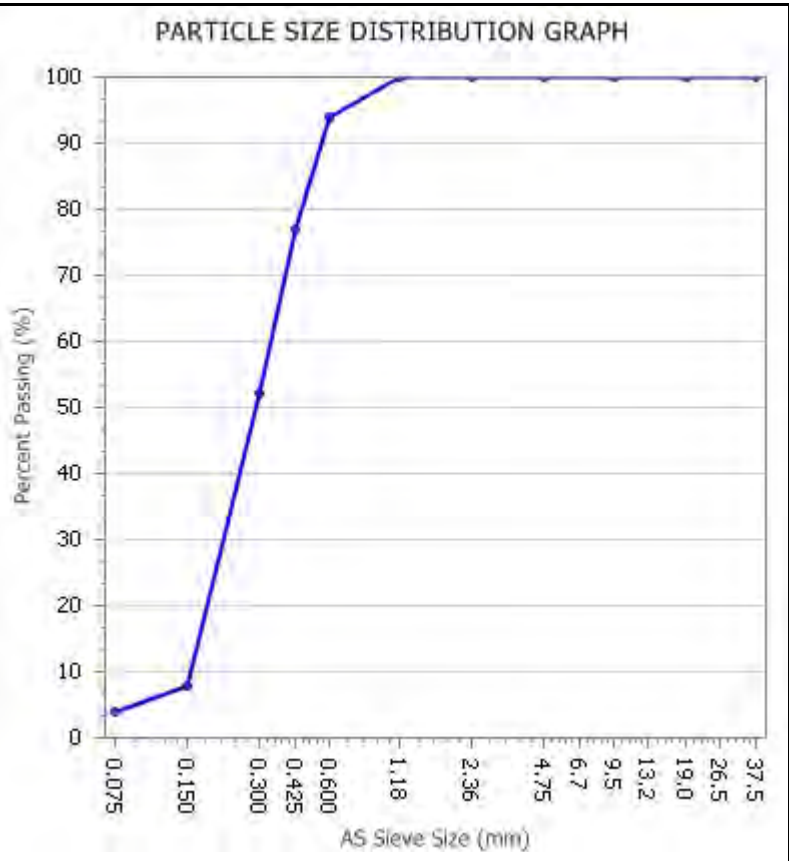
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1498-1 Project Number: 5029/P/256 Lot Number: A02 Sample 3 Depth 0.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6411 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: White SAND
---	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		94	
0.425		77	
0.300		52	
0.150		8	
0.075		4	




Remarks



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Accreditation Number: 5029



Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

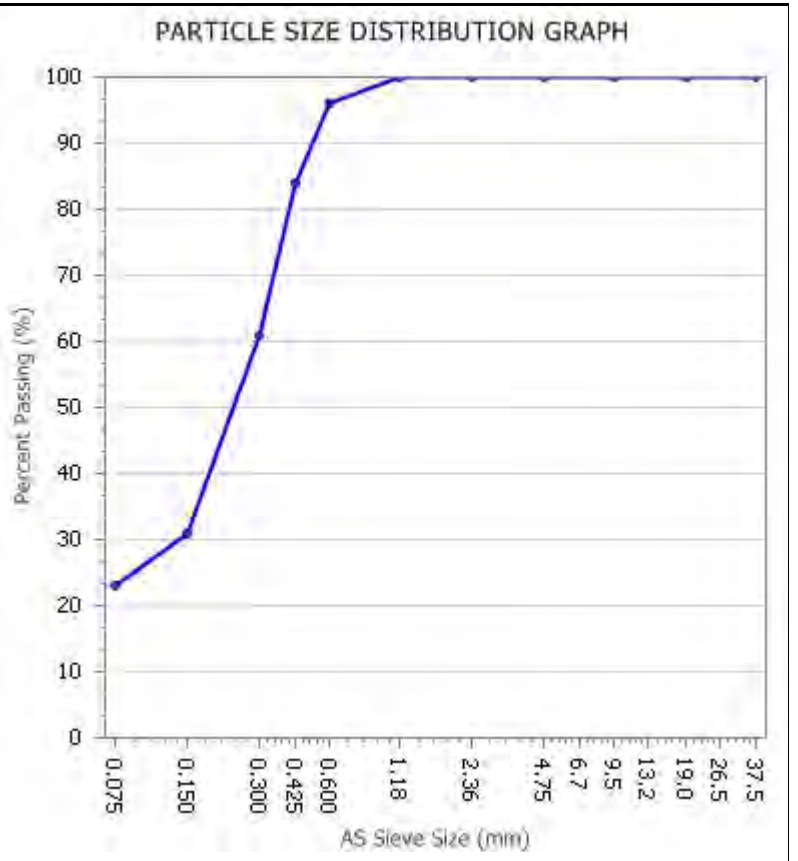


## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1499-1 Project Number: 5029/P/256 Lot Number: A02 Sample 4 Depth 0.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6412 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		84	
0.300		61	
0.150		31	
0.075		23	




Remarks



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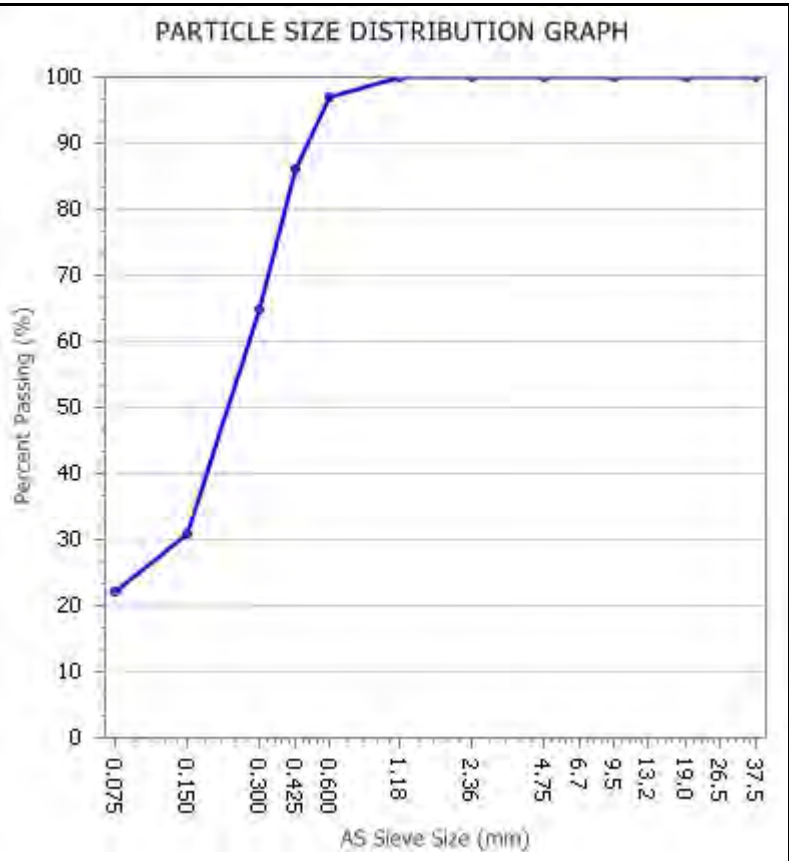
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1500-1 Project Number: 5029/P/256 Lot Number: A02 Sample 5 Depth 1.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6413 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		97	
0.425		86	
0.300		65	
0.150		31	
0.075		22	




Remarks



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Accreditation Number: 5029



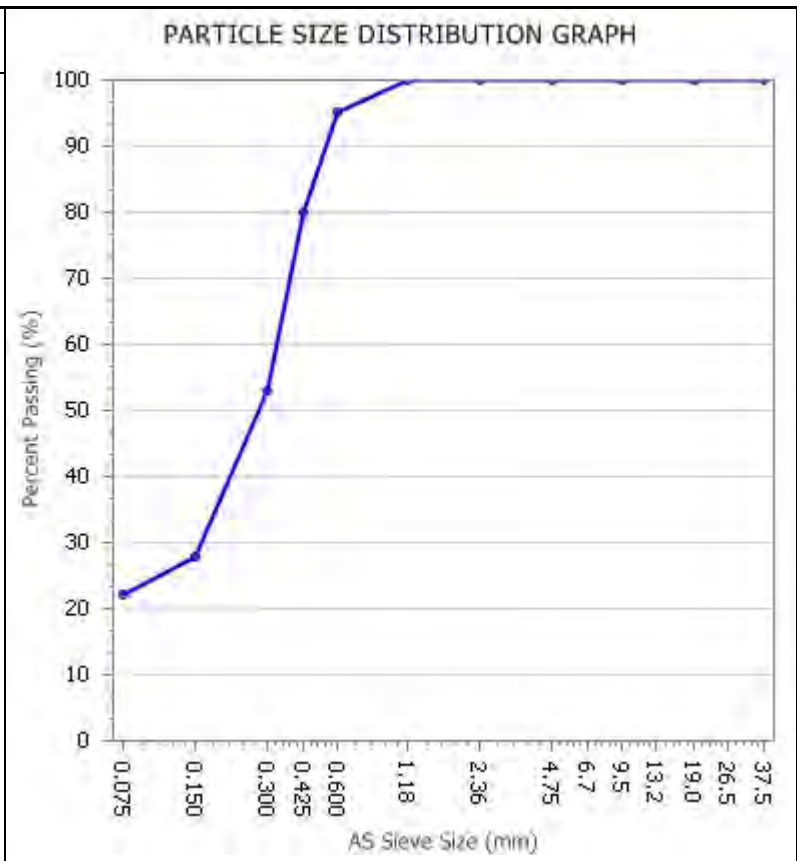
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1502-1 Project Number: 5029/P/256 Lot Number: A02 Sample 7 Depth 1.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6415 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		80	
0.300		53	
0.150		28	
0.075		22	




Remarks



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Accreditation Number: 5029



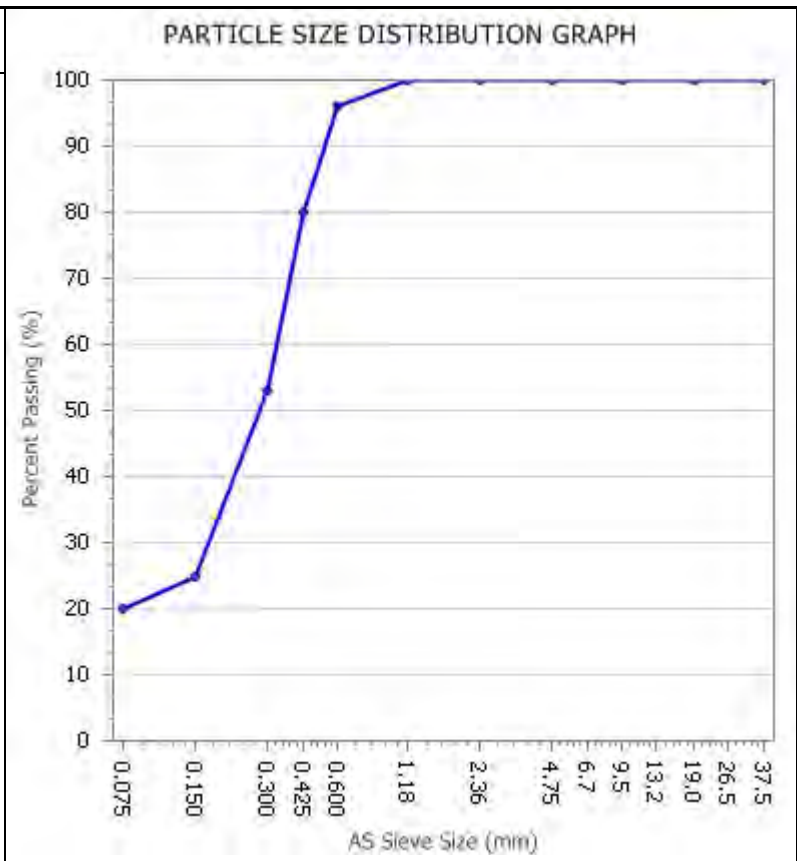
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1503-1 Project Number: 5029/P/256 Lot Number: A02 Sample 8 Depth 1.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6416 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		80	
0.300		53	
0.150		25	
0.075		20	




Remarks



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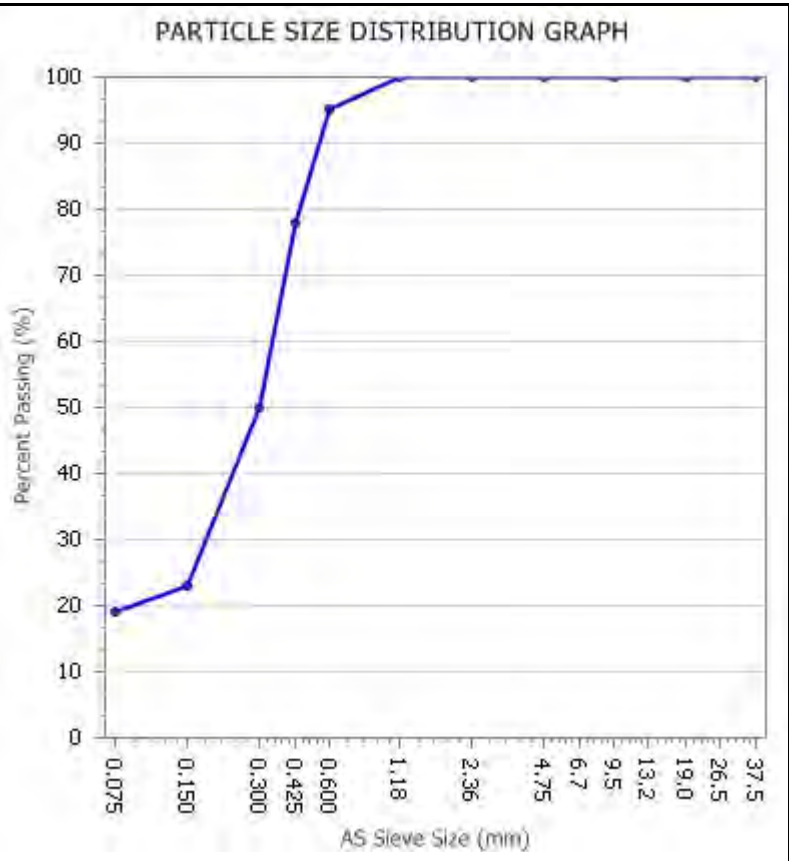
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1504-1 Project Number: 5029/P/256 Lot Number: A02 Sample 9 Depth 2.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6417 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		78	
0.300		50	
0.150		23	
0.075		19	



Remarks

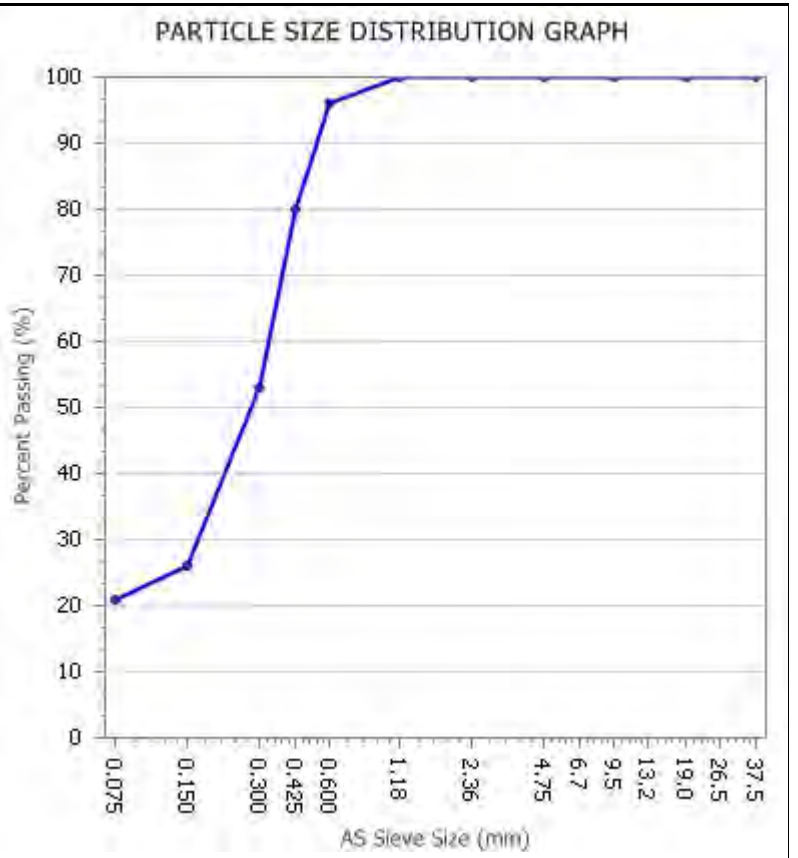
	<p>The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.          Accredited for compliance with ISO/IEC 17025</p>	
	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1505-1 Project Number: 5029/P/256 Lot Number: A02 Sample 10 Depth 2.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6418 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		80	
0.300		53	
0.150		26	
0.075		21	




Remarks



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Accreditation Number: 5029



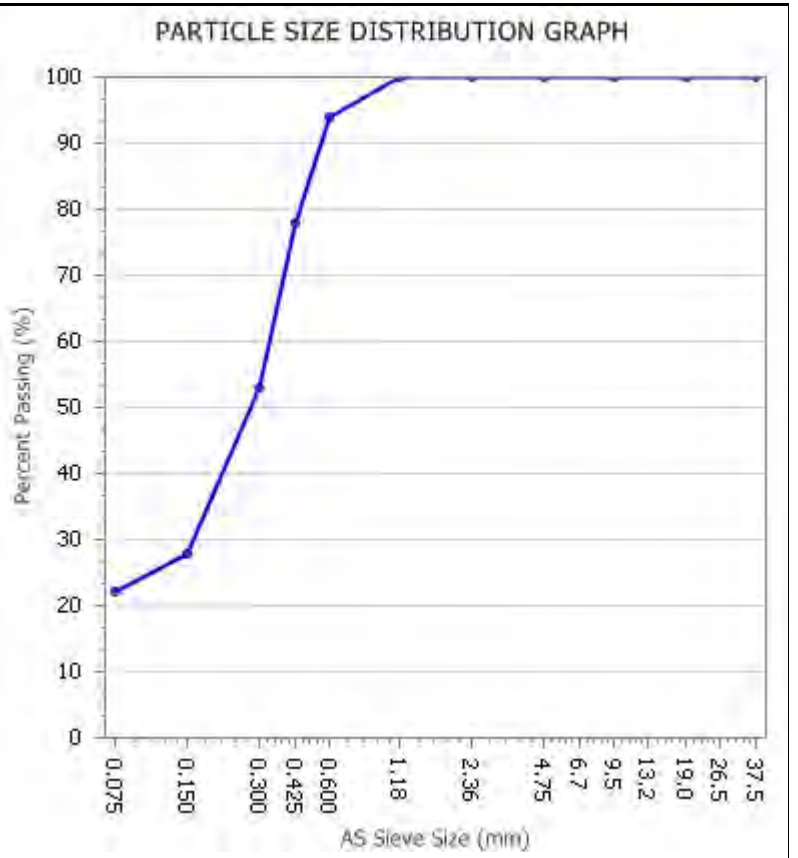
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1507-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A02 Sample 12 Depth 2.8m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6420</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 19/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Grey Silty SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		94	
0.425		78	
0.300		53	
0.150		28	
0.075		22	




Remarks



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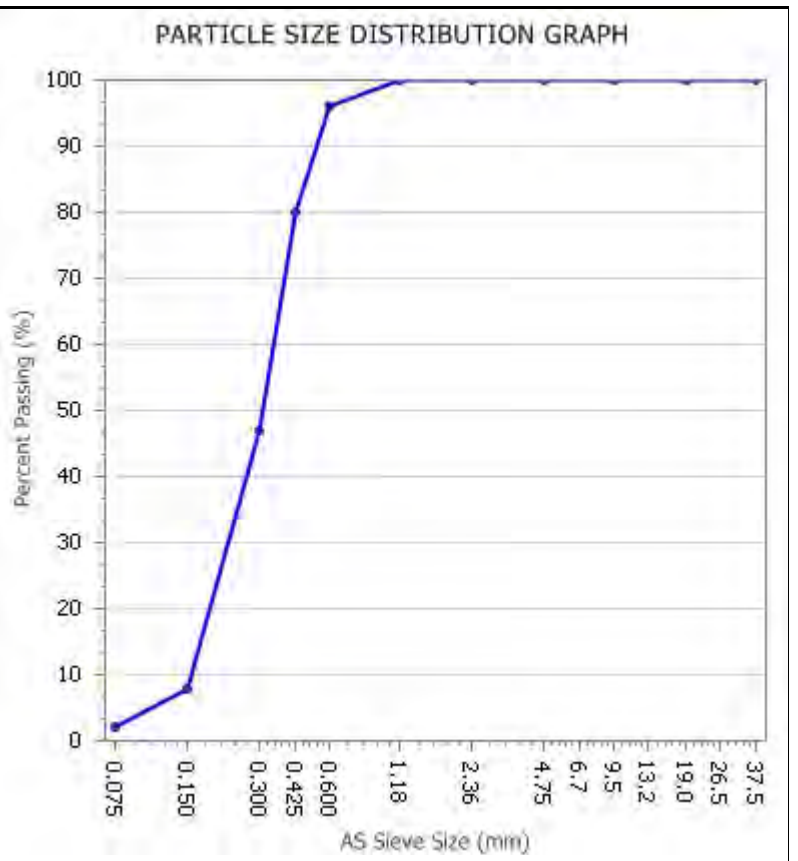
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1508-1 Project Number: 5029/P/256 Lot Number: A03 Sample 1 Depth 0.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6421 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		80	
0.300		47	
0.150		8	
0.075		2	




Remarks



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Accreditation Number: 5029



Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

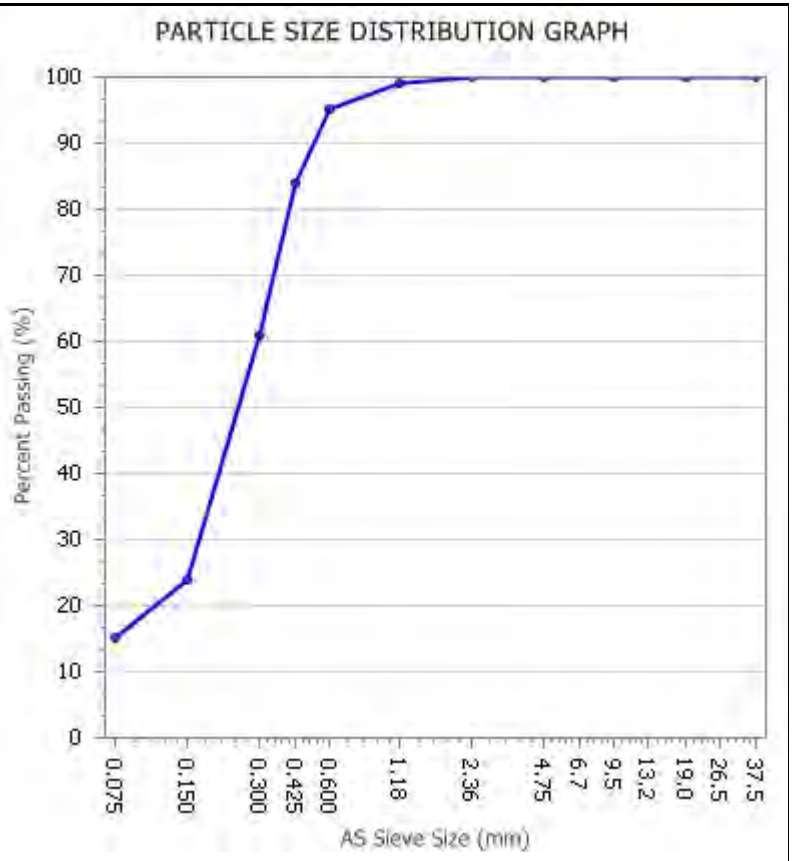


## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1509-1 Project Number: 5029/P/256 Lot Number: A03 Sample 2 Depth 0.2m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6422 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		99	
0.600		95	
0.425		84	
0.300		61	
0.150		24	
0.075		15	




Remarks



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Accreditation Number: 5029

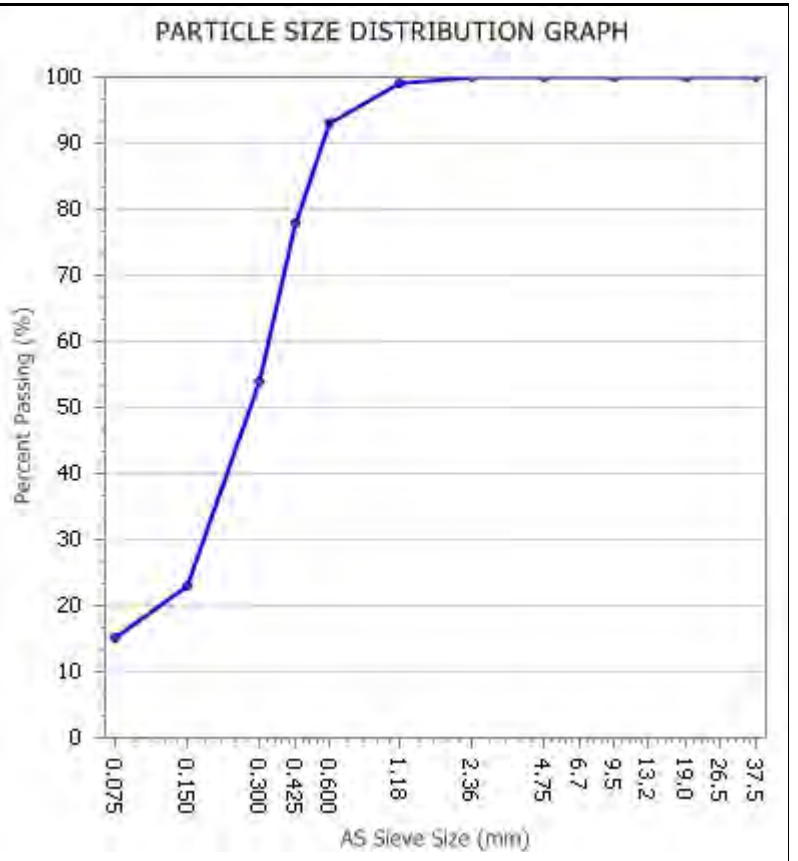
  
 Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1511-1 Project Number: 5029/P/256 Lot Number: A03 Sample 4 Depth 0.7m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6424 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		99	
0.600		93	
0.425		78	
0.300		54	
0.150		23	
0.075		15	




Remarks



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Accreditation Number: 5029



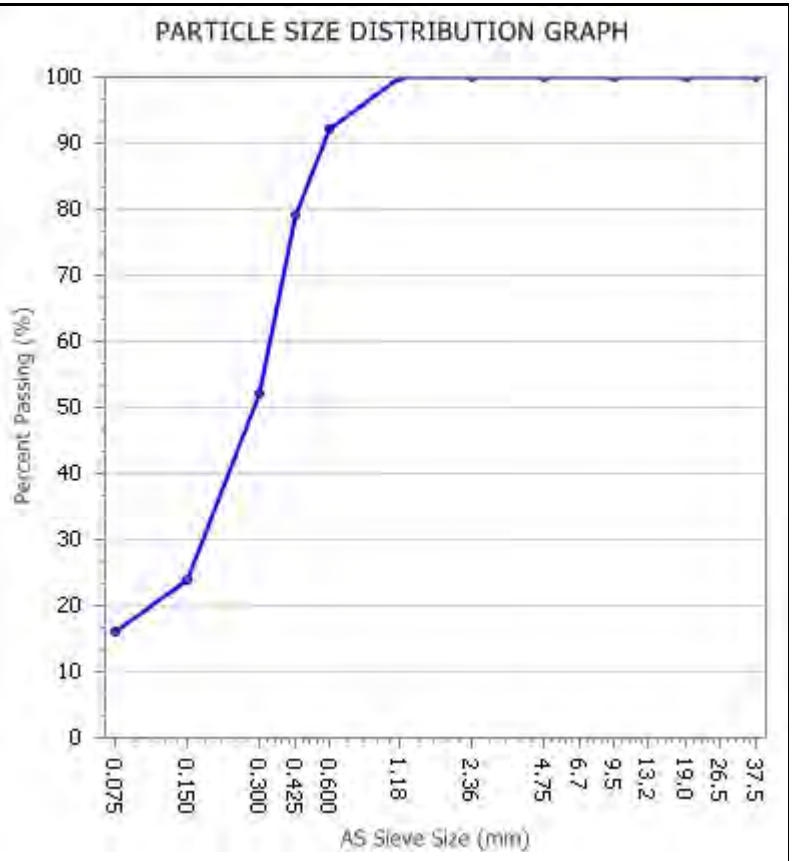
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1512-1 Project Number: 5029/P/256 Lot Number: A03 Sample 5 Depth 1.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6425 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		92	
0.425		79	
0.300		52	
0.150		24	
0.075		16	




Remarks



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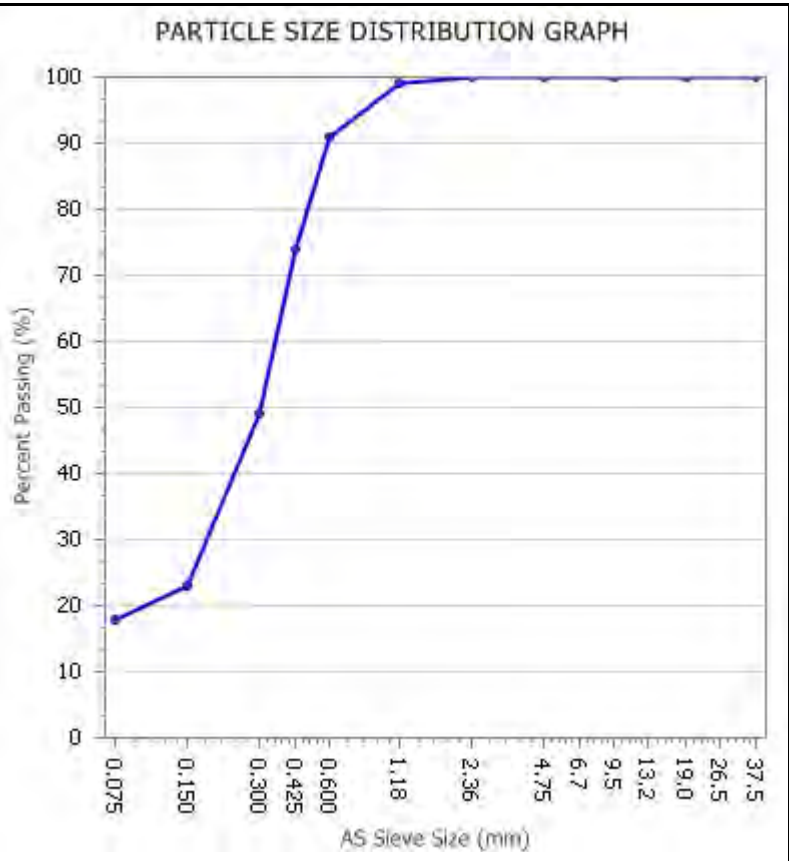
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1513-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A03 Sample 7 Depth 1.5m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6427</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 19/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Yellow silty SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		99	
0.600		91	
0.425		74	
0.300		49	
0.150		23	
0.075		18	




Remarks



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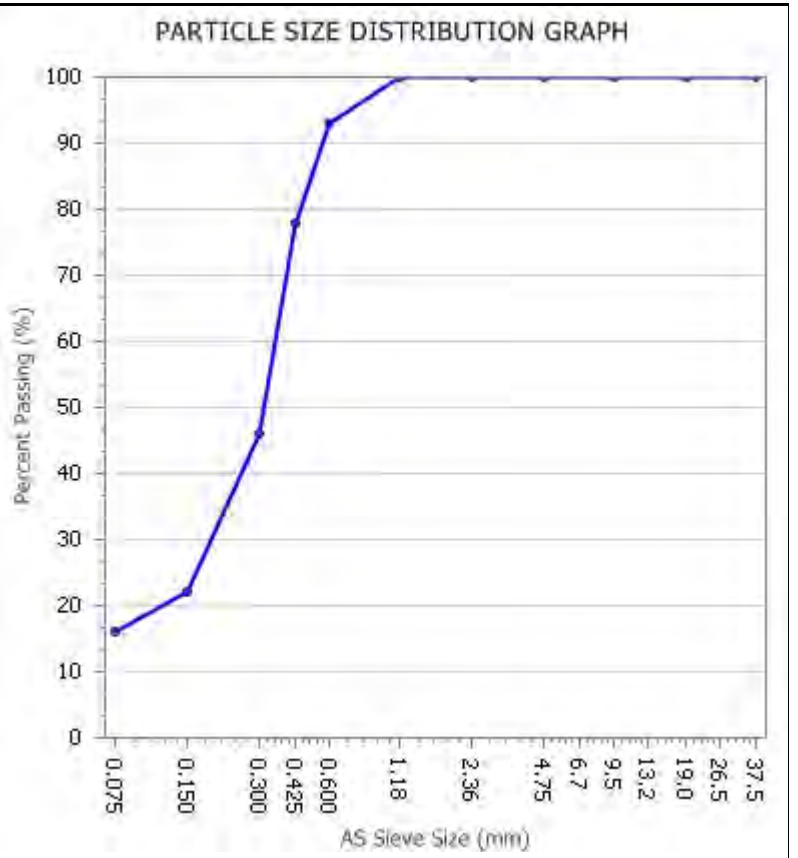
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1514-1 Project Number: 5029/P/256 Lot Number: A03 Sample 8 Depth 1.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6428 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		93	
0.425		78	
0.300		46	
0.150		22	
0.075		16	




Remarks



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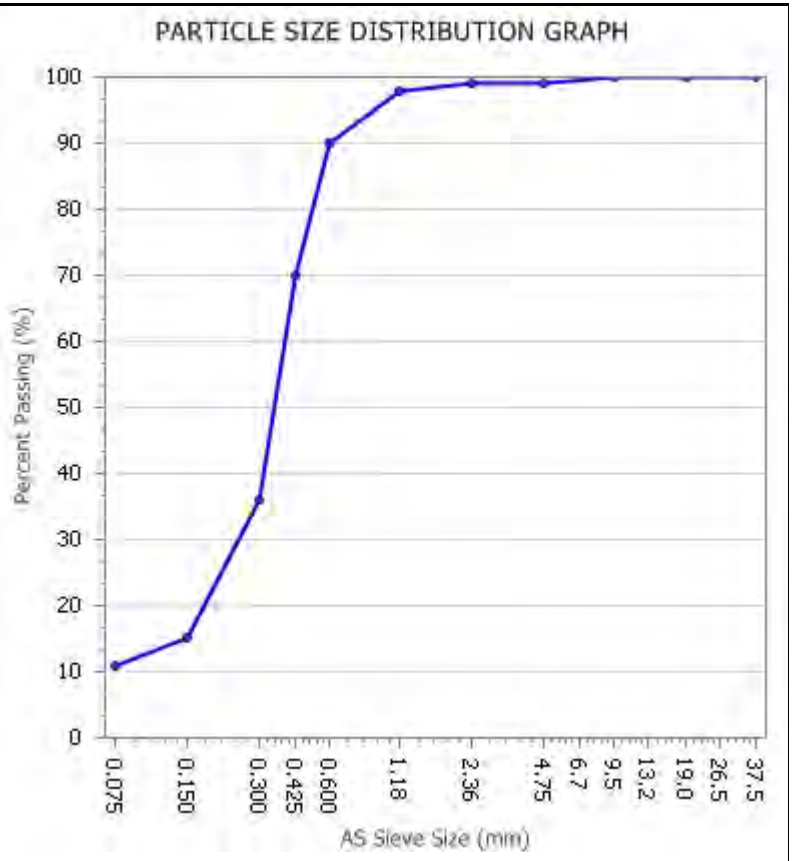
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1515-1 Project Number: 5029/P/256 Lot Number: A03 Sample 9 Depth 2.1m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6429 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		99	
2.36		99	
1.18		98	
0.600		90	
0.425		70	
0.300		36	
0.150		15	
0.075		11	



Remarks

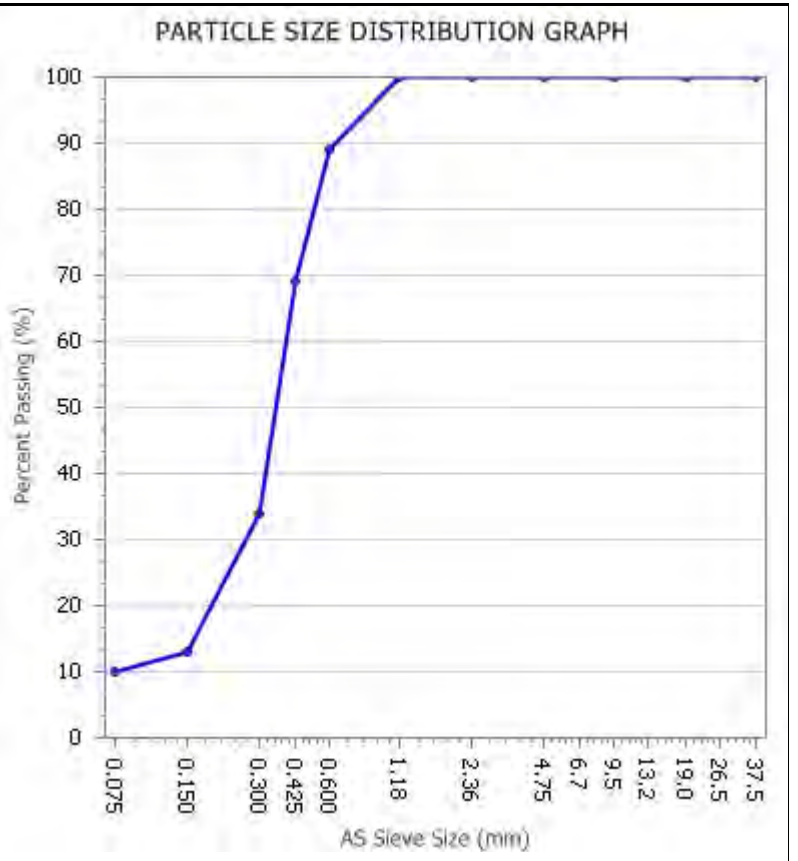
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1516-1 Project Number: 5029/P/256 Lot Number: A03 Sample 10 Depth 2.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6430 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		89	
0.425		69	
0.300		34	
0.150		13	
0.075		10	




Remarks



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Accreditation Number: 5029



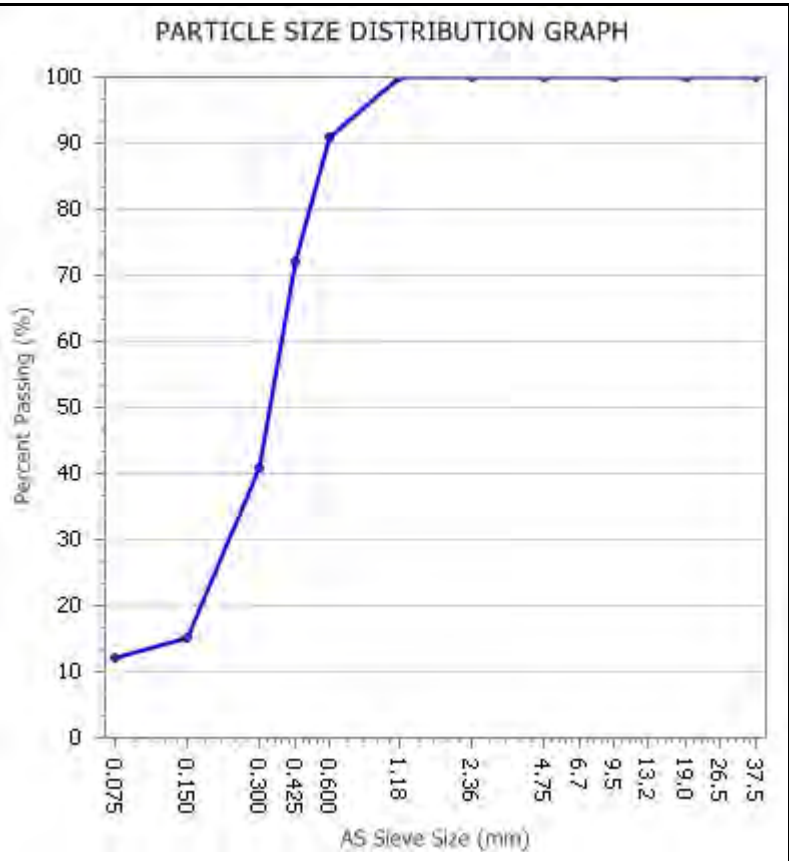
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1517-1 Project Number: 5029/P/256 Lot Number: A03 Sample 11 Depth 2.6m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6431 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		91	
0.425		72	
0.300		41	
0.150		15	
0.075		12	




Remarks



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Accreditation Number: 5029



Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

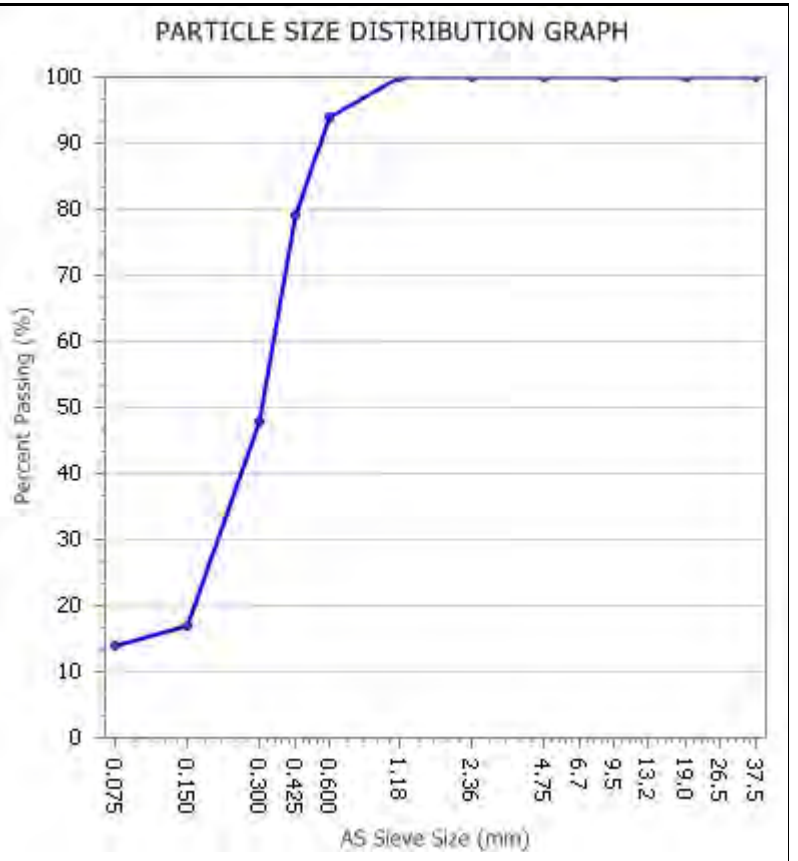


## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1518-1 Project Number: 5029/P/256 Lot Number: A03 Sample 12 Depth 2.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6432 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		94	
0.425		79	
0.300		48	
0.150		17	
0.075		14	




Remarks



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Accreditation Number: 5029



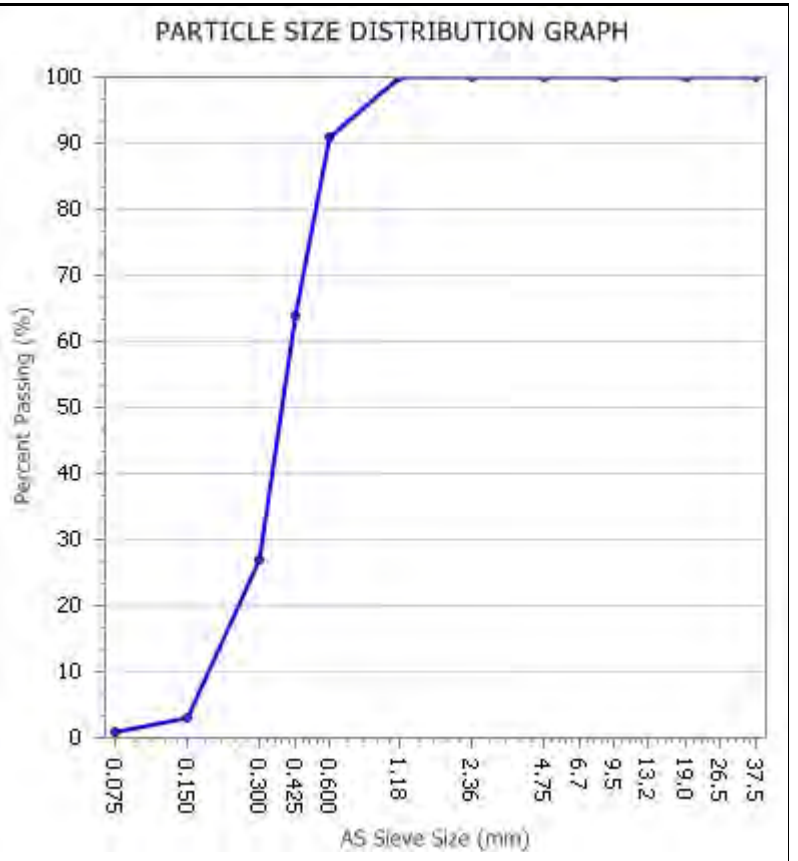
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## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1519-1 Project Number: 5029/P/256 Lot Number: A04 Sample 1 Depth 0.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6433 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		91	
0.425		64	
0.300		27	
0.150		3	
0.075		1	




Remarks



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Accreditation Number: 5029



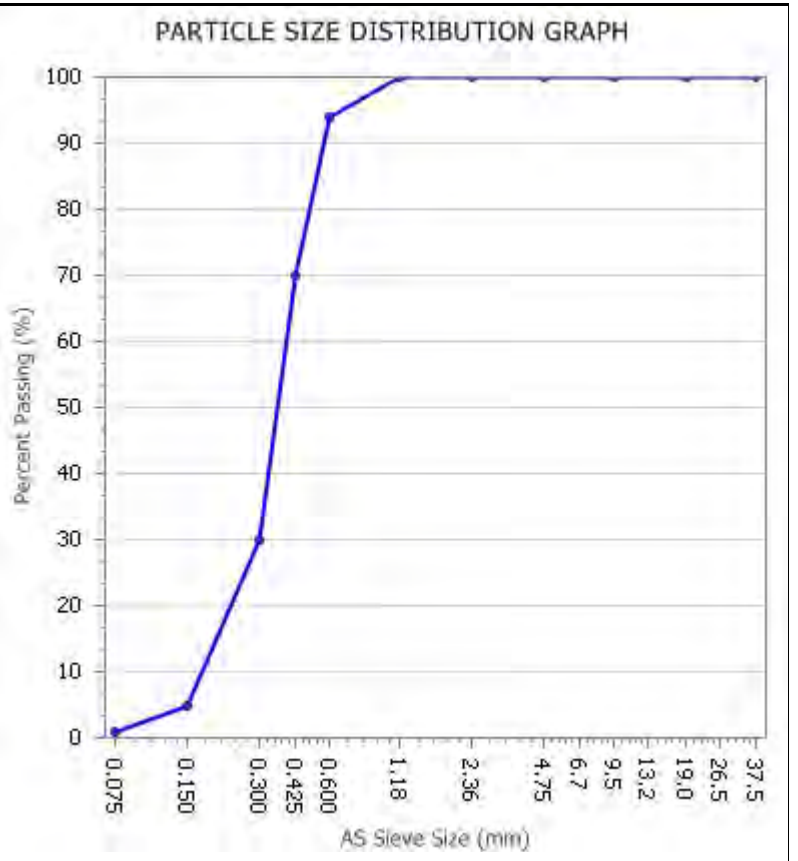
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 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1520-1 Project Number: 5029/P/256 Lot Number: A04 Sample 2 Depth 0.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6434 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		94	
0.425		70	
0.300		30	
0.150		5	
0.075		1	




Remarks



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Accreditation Number: 5029



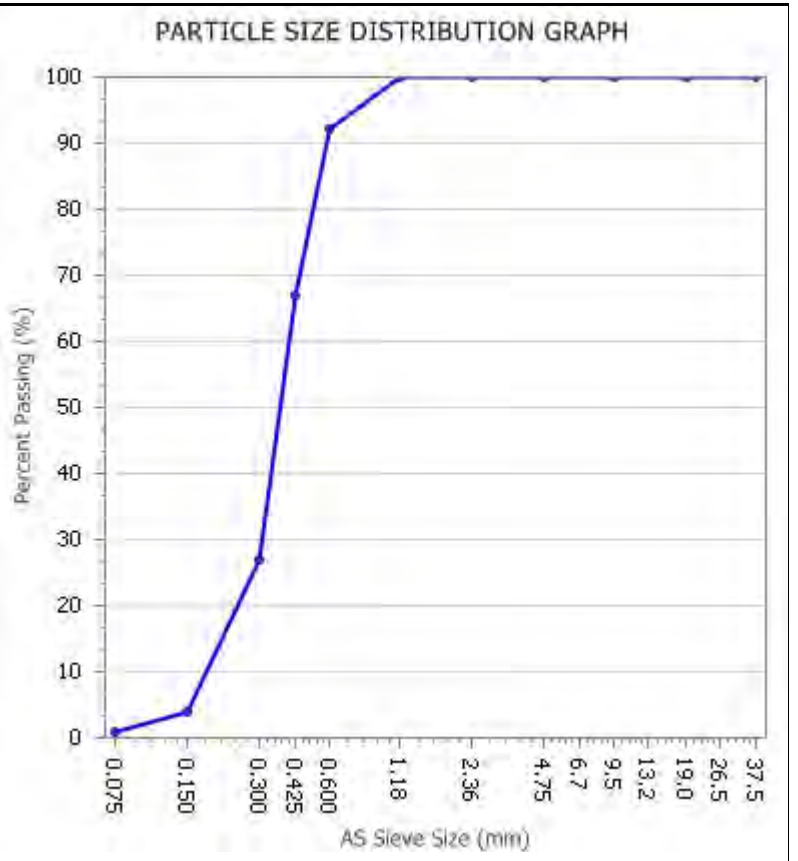
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1521-1 Project Number: 5029/P/256 Lot Number: A04 Sample 3 Depth 0.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6435 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		92	
0.425		67	
0.300		27	
0.150		4	
0.075		1	




Remarks



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Accreditation Number: 5029



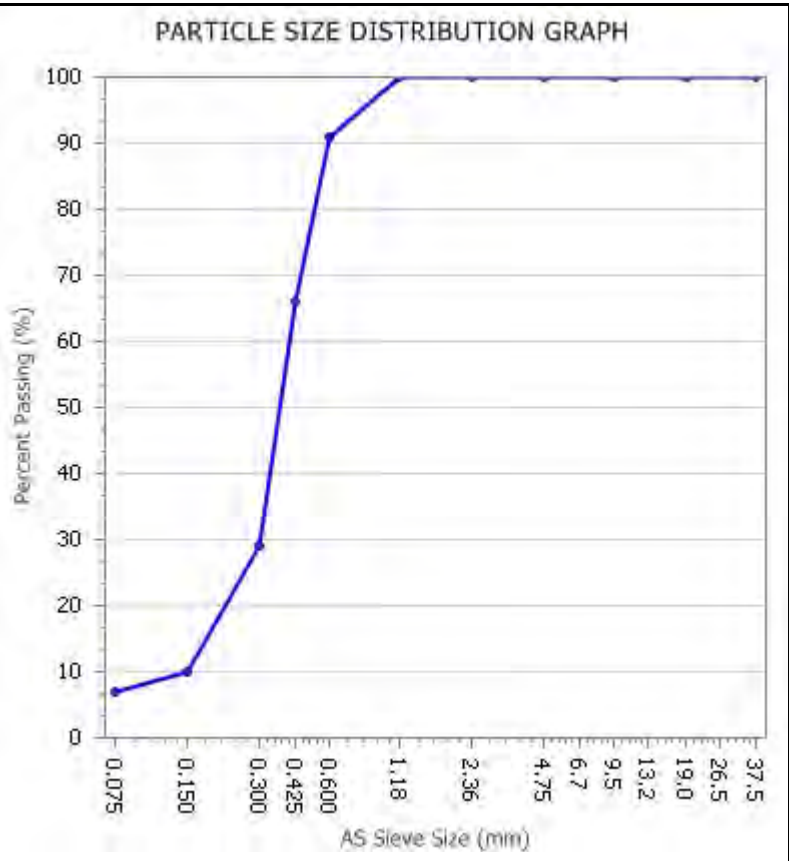
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1522-1 Project Number: 5029/P/256 Lot Number: A04 Sample 4 Depth 0.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6436 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		91	
0.425		66	
0.300		29	
0.150		10	
0.075		7	




Remarks



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.  
 Accredited for compliance with ISO/IEC 17025

Accreditation Number: 5029



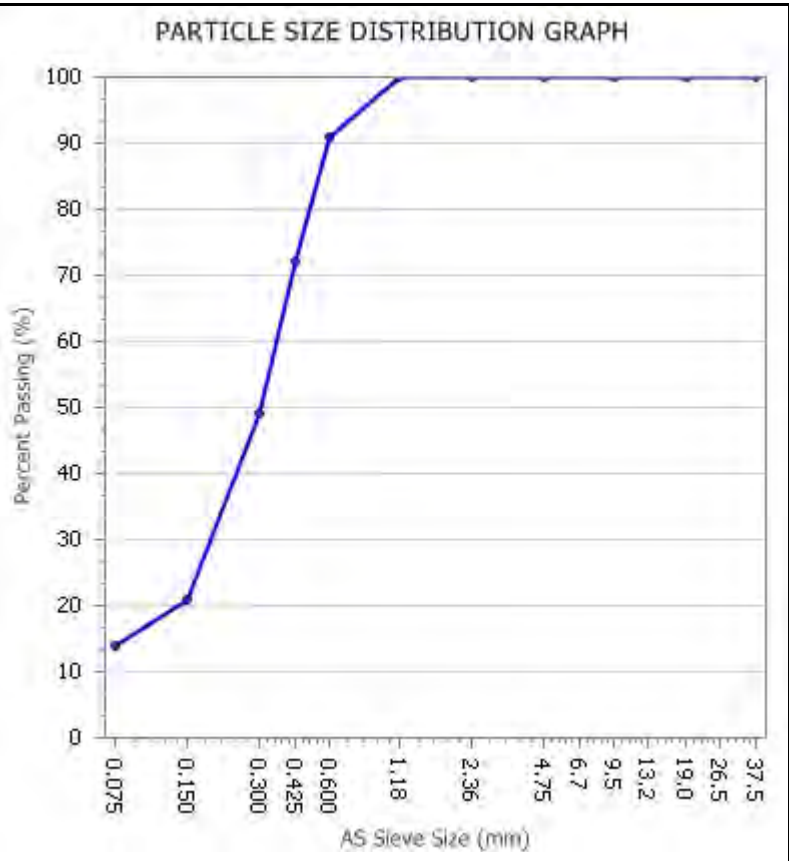
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1523-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A04 Sample 6 Depth 1.3m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span></p>
---	---

<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6438</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 19/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Grey Silty SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		91	
0.425		72	
0.300		49	
0.150		21	
0.075		14	




Remarks



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Accreditation Number: 5029



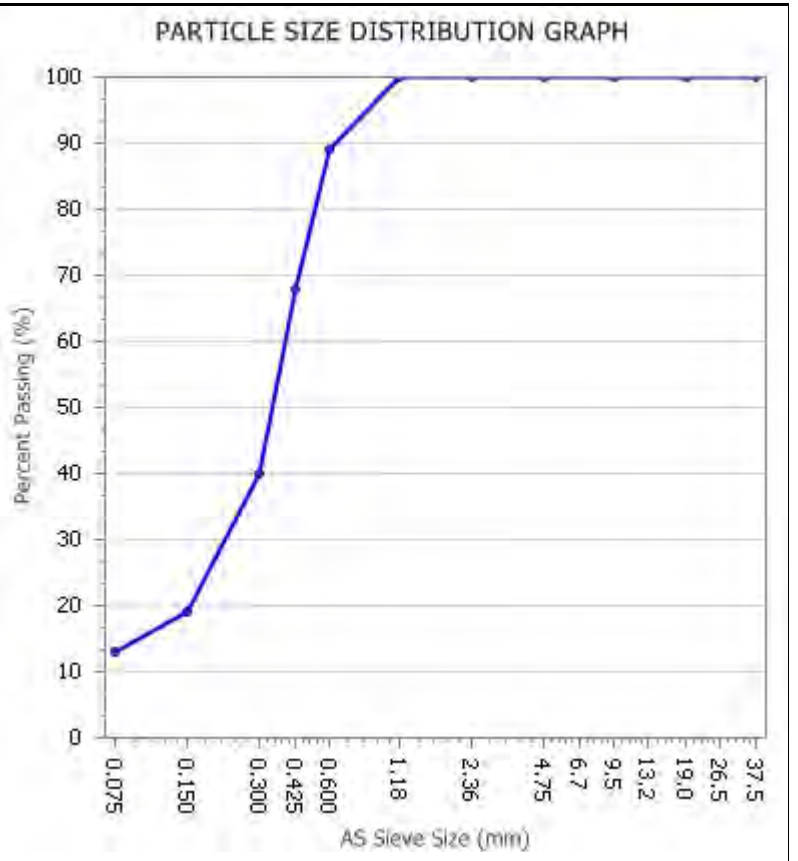
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1524-1 Project Number: 5029/P/256 Lot Number: A04 Sample 7 Depth 1.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6439 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 19/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		89	
0.425		68	
0.300		40	
0.150		19	
0.075		13	




Remarks



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Accreditation Number: 5029



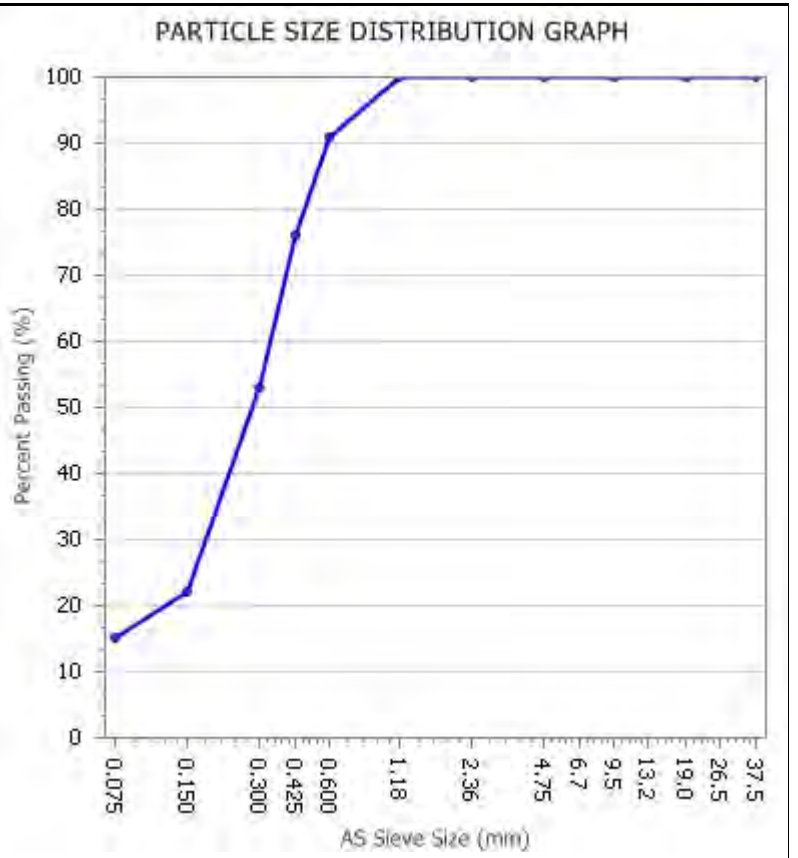
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1525-1 Project Number: 5029/P/256 Lot Number: A04 Sample 8 Depth 1.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6440 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		91	
0.425		76	
0.300		53	
0.150		22	
0.075		15	




Remarks



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Accreditation Number: 5029



Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

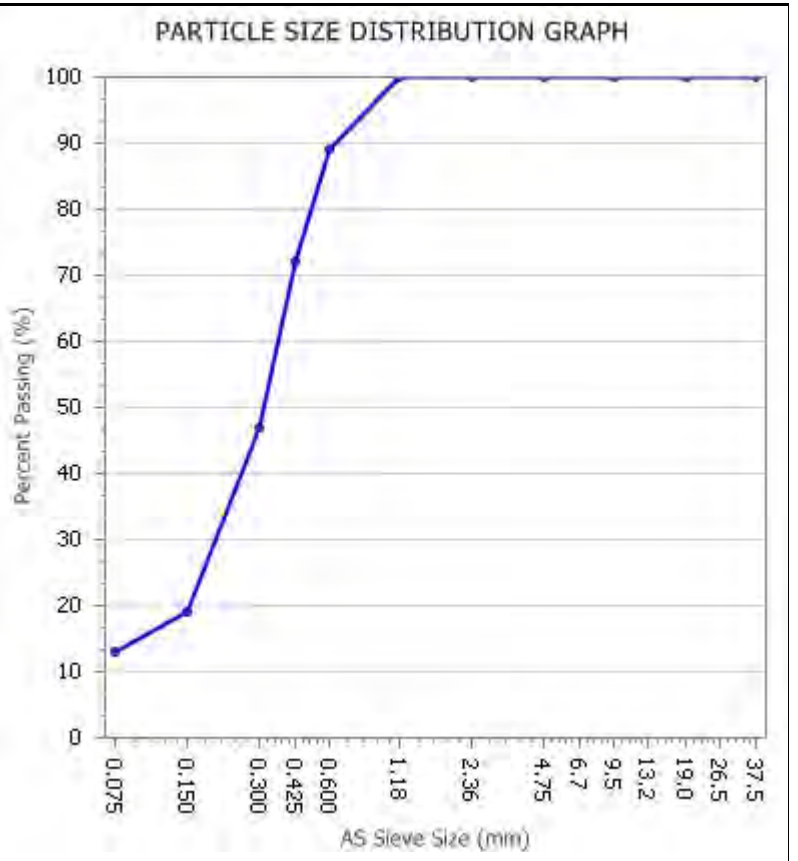


## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1526-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A04 Sample 9 Depth 2.0m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span></p>
---	---

<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6441</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 20/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Yellow silty SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		89	
0.425		72	
0.300		47	
0.150		19	
0.075		13	




Remarks



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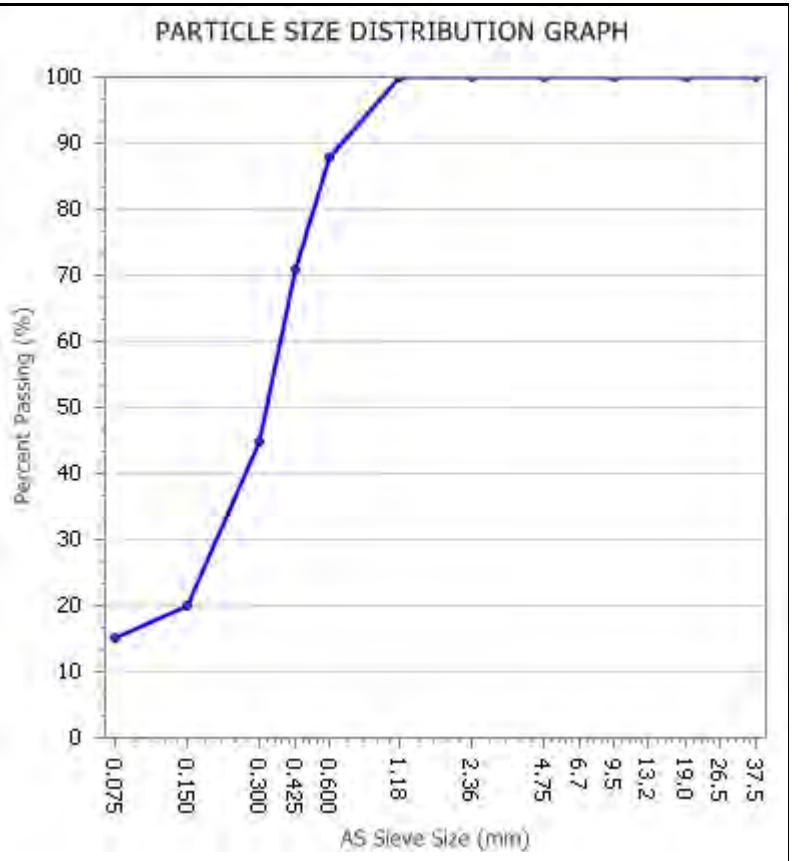
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1527-1 Project Number: 5029/P/256 Lot Number: A04 Sample 10 Depth 2.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6442 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		88	
0.425		71	
0.300		45	
0.150		20	
0.075		15	




Remarks



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Accreditation Number: 5029



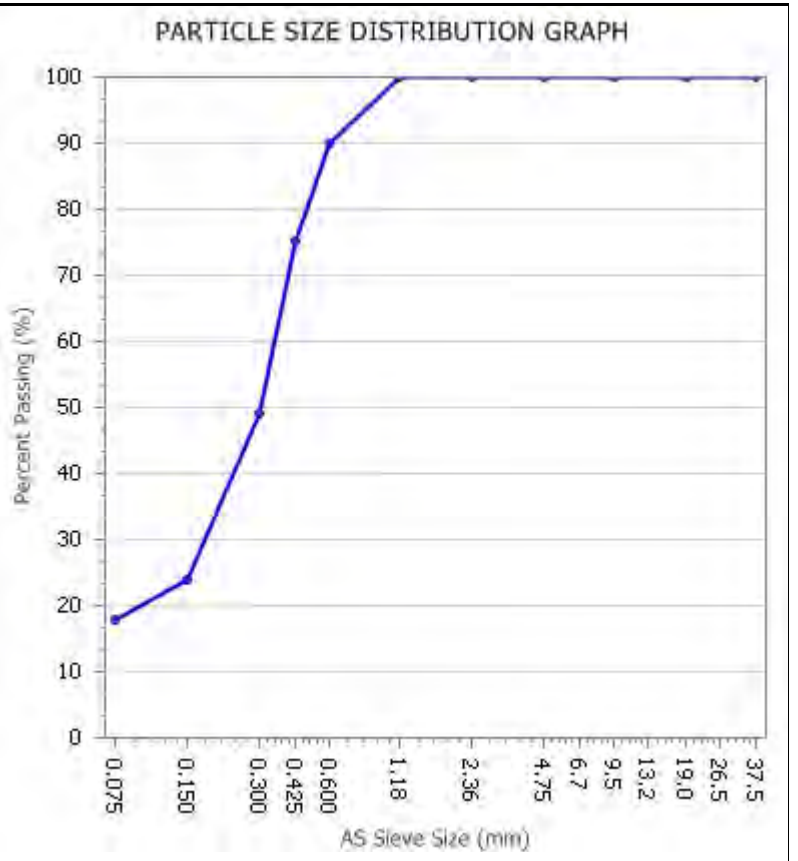
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1528-1 Project Number: 5029/P/256 Lot Number: A04 Sample 12 Depth 2.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6444 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		90	
0.425		75	
0.300		49	
0.150		24	
0.075		18	




Remarks



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Accreditation Number: 5029



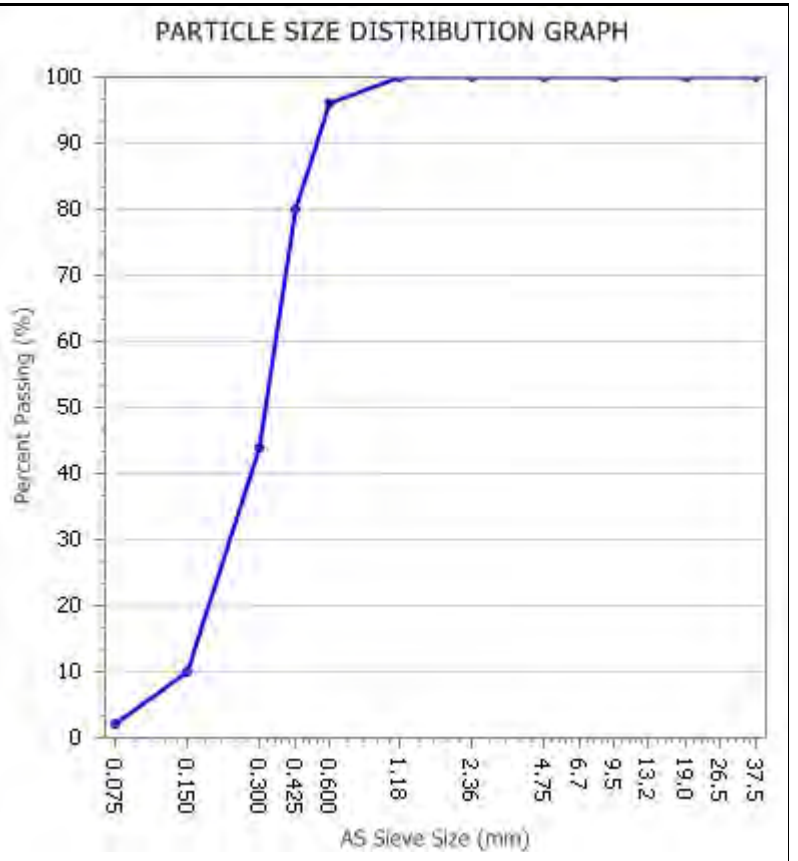
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1529-1 Project Number: 5029/P/256 Lot Number: A05 Sample 1 Depth 0.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6445 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		80	
0.300		44	
0.150		10	
0.075		2	




Remarks



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Accreditation Number: 5029



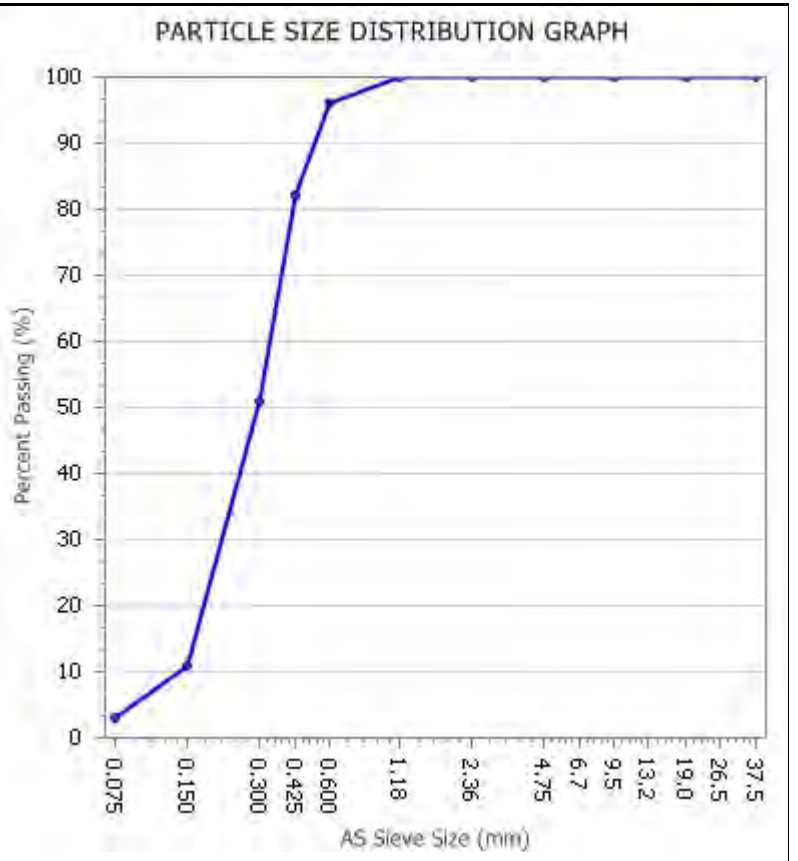
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1530-1 Project Number: 5029/P/256 Lot Number: A05 Sample 2 Depth 0.2m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6446 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		82	
0.300		51	
0.150		11	
0.075		3	




Remarks



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Accreditation Number: 5029



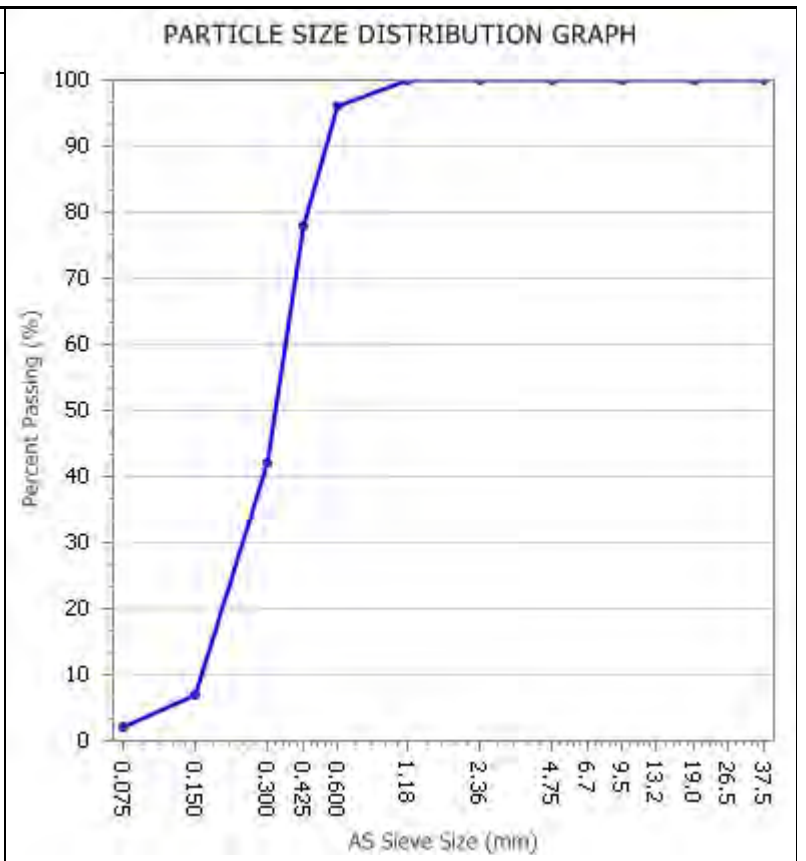
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1531-1 Project Number: 5029/P/256 Lot Number: A05 Sample 3 Depth 0.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6447 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		78	
0.300		42	
0.150		7	
0.075		2	



Remarks

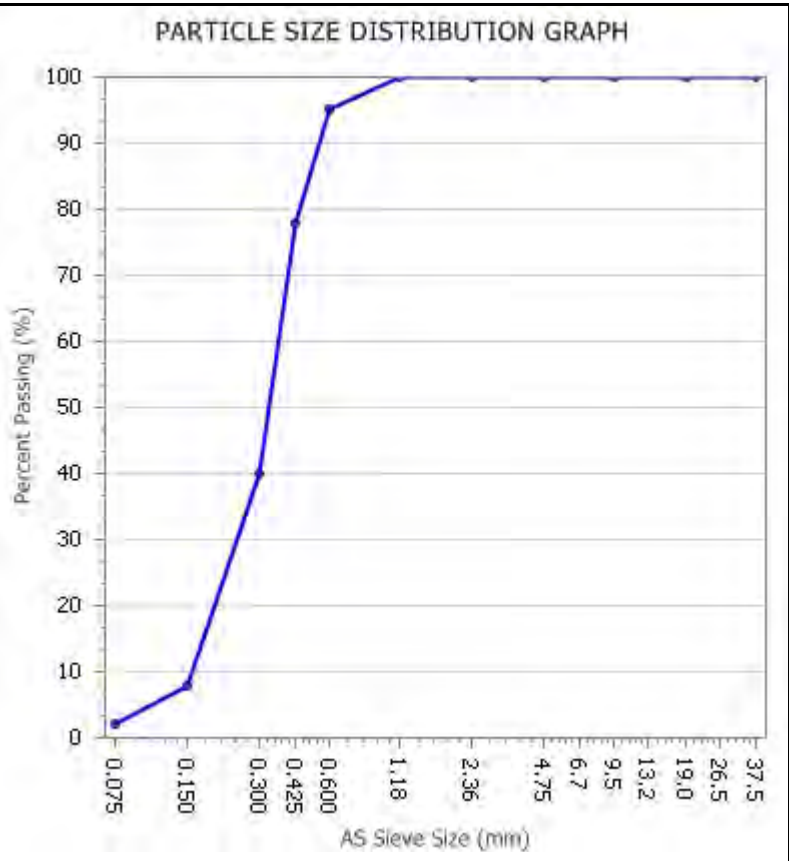
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1532-1 Project Number: 5029/P/256 Lot Number: A05 Sample 4 Depth 0.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6448 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		78	
0.300		40	
0.150		8	
0.075		2	




Remarks



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Accreditation Number: 5029



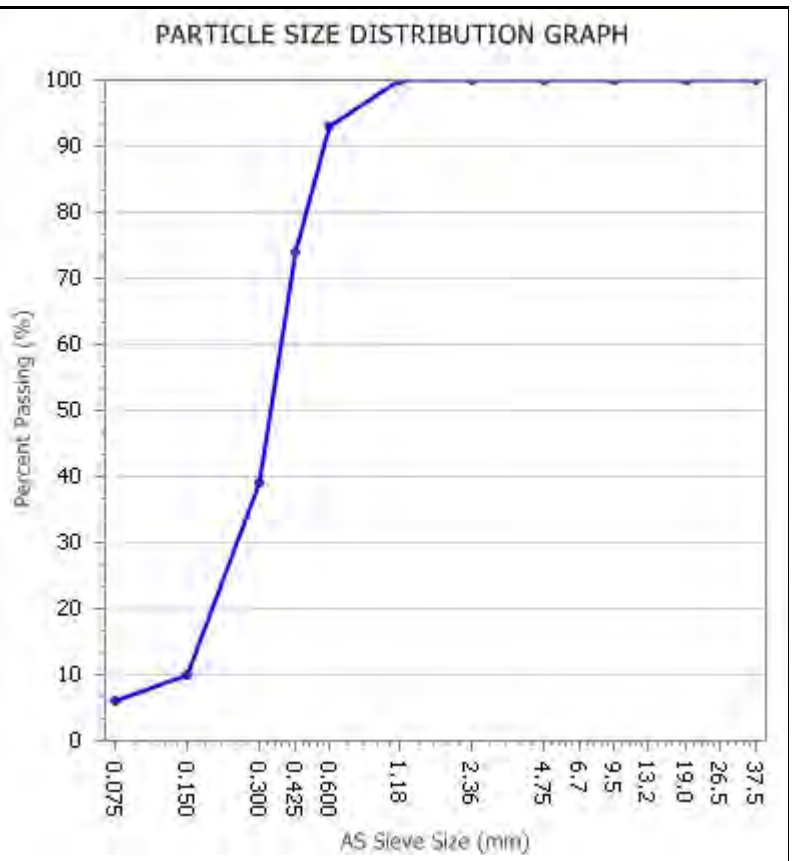
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1533-1 Project Number: 5029/P/256 Lot Number: A05 Sample 5 Depth 1.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6449 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		93	
0.425		74	
0.300		39	
0.150		10	
0.075		6	




Remarks



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Accreditation Number: 5029



Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

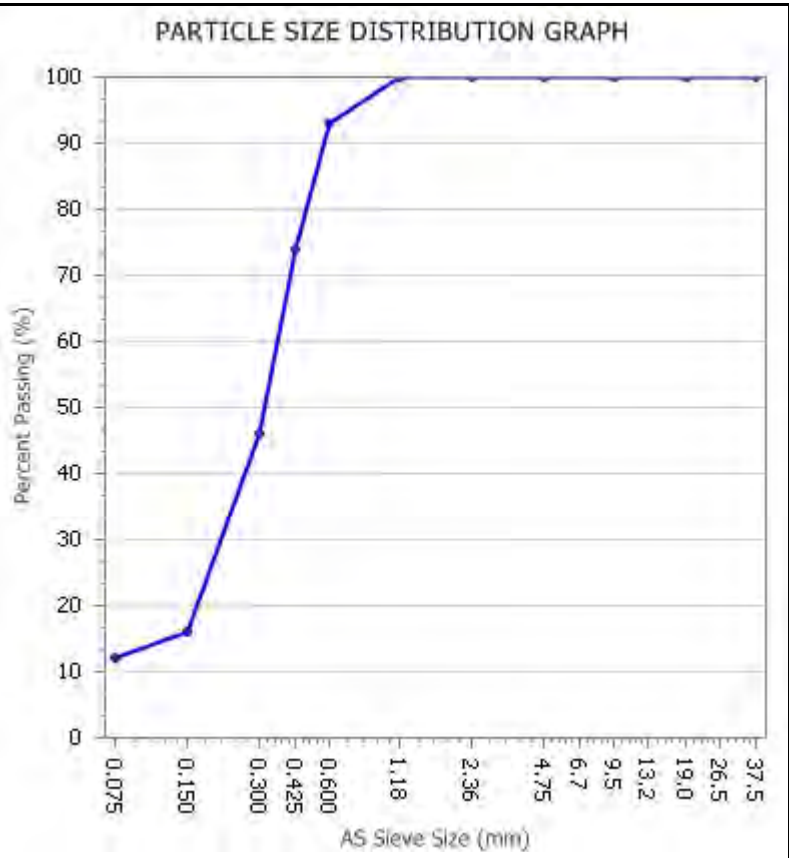


## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1534-1 Project Number: 5029/P/256 Lot Number: A05 Sample 6 Depth 1.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6450 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		93	
0.425		74	
0.300		46	
0.150		16	
0.075		12	



Remarks

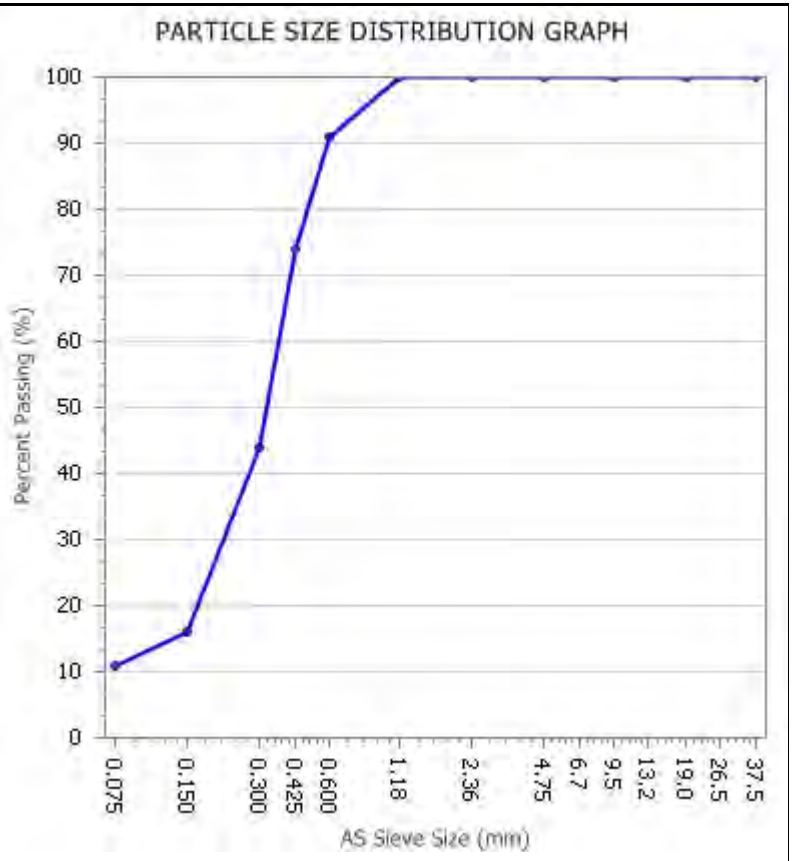
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## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1535-1 Project Number: 5029/P/256 Lot Number: A05 Sample 7 Depth 1.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6451 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		91	
0.425		74	
0.300		44	
0.150		16	
0.075		11	




Remarks



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Accreditation Number: 5029



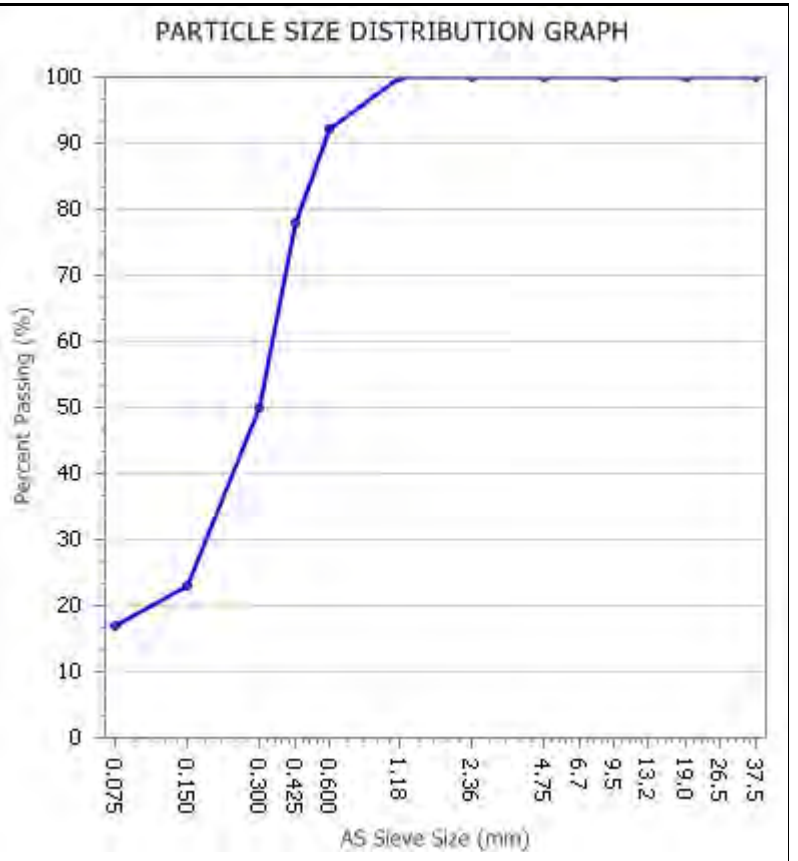
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1536-1 Project Number: 5029/P/256 Lot Number: A05 Sample 8 Depth 1.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6452 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		92	
0.425		78	
0.300		50	
0.150		23	
0.075		17	




Remarks



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Accreditation Number: 5029



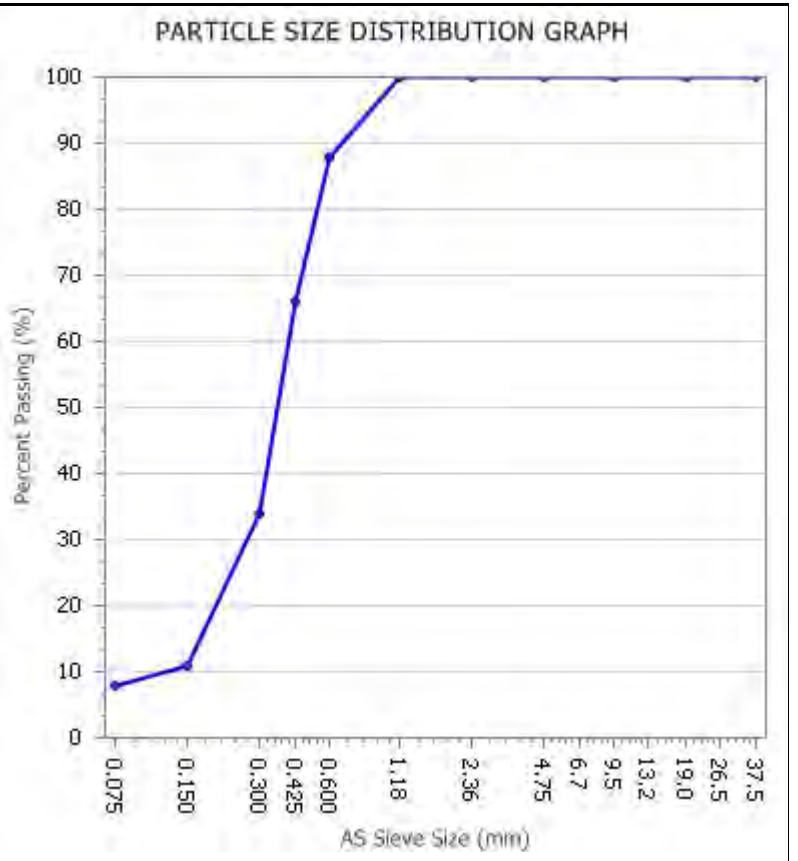
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1537-1 Project Number: 5029/P/256 Lot Number: A05 Sample 11 Depth 2.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6455 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		88	
0.425		66	
0.300		34	
0.150		11	
0.075		8	




Remarks



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Accreditation Number: 5029



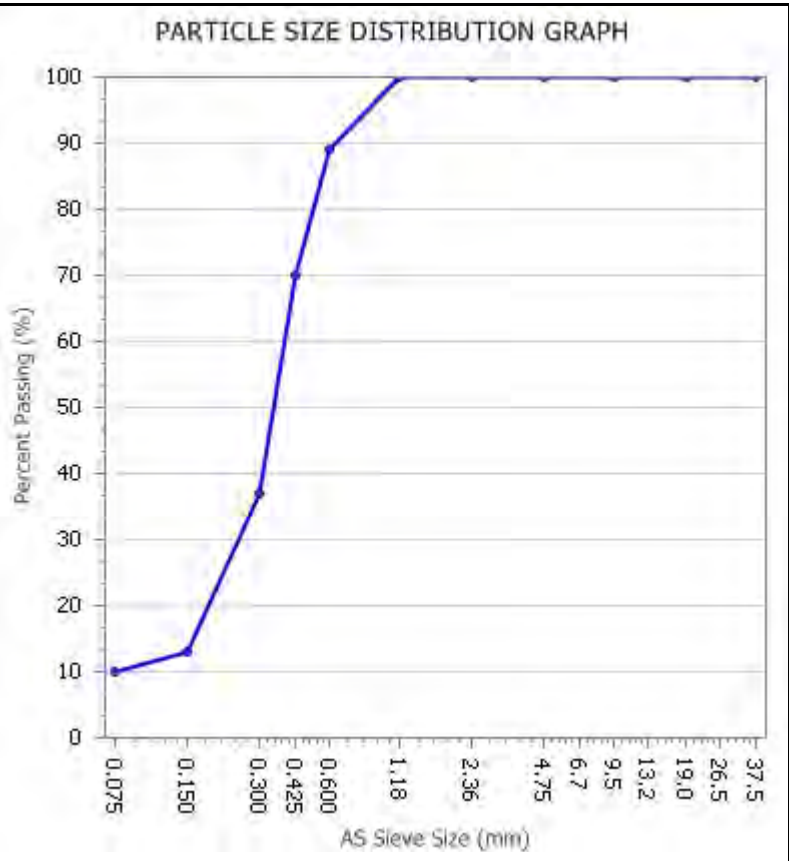
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1538-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A05 Sample 12 Depth 2.8m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6456</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 20/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Grey Silty SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		89	
0.425		70	
0.300		37	
0.150		13	
0.075		10	




Remarks



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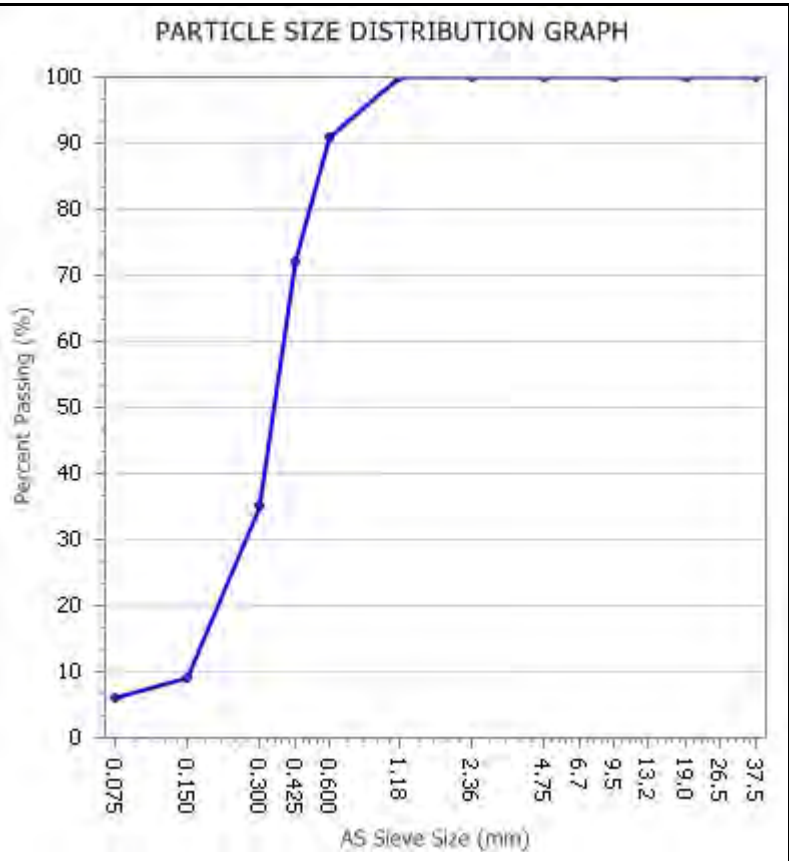
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


<p>Client: GHD Pty Ltd</p> <p>Client Address: GHD House, 239 Adelaide Terrace, PERTH</p> <p>Project: Keane Road Pressure Main</p> <p>Location: Perth</p> <p>Component:</p> <p>Area Description:</p>	<p>Report Number: 5029/R/1539-1</p> <p>Project Number: 5029/P/256</p> <p>Lot Number: A05 Sample 13 Depth 3.5m</p> <p>Internal Test Request: 5029/T/1144</p> <p>Client Reference/s: 61/32259</p> <p>Report Date / Page: 26/08/2015 <span style="float: right;">Page 1 of 1</span></p>
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<p>Test Procedures: AS1289.3.6.1</p> <p>Sample Number: 5029/S/6457</p> <p>Sampling Method: Tested As Received</p> <p>Date Sampled: 11/08/2015</p> <p>Sampled By: Client Sampled</p> <p>Date Tested: 20/08/2015</p> <p>Material Source: -</p>	<p style="text-align: center;">Sample Location</p> <p>Test Request</p> <p style="text-align: center;">Material Type: Grey Silty SAND</p>
--	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		91	
0.425		72	
0.300		35	
0.150		9	
0.075		6	




Remarks



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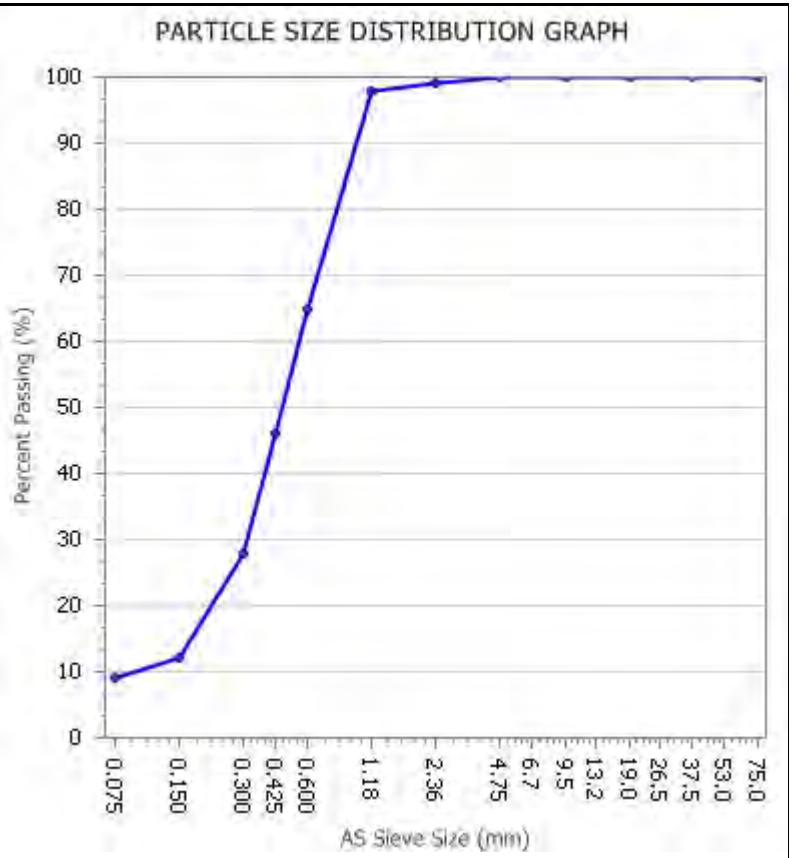
Approved Signatory: Janine Fischer  
Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1757-1 Project Number: 5029/P/256 Lot Number: A05 Sample 15 Depth 4.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6458 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		99	
1.18		98	
0.600		65	
0.425		46	
0.300		28	
0.150		12	
0.075		9	



Remarks

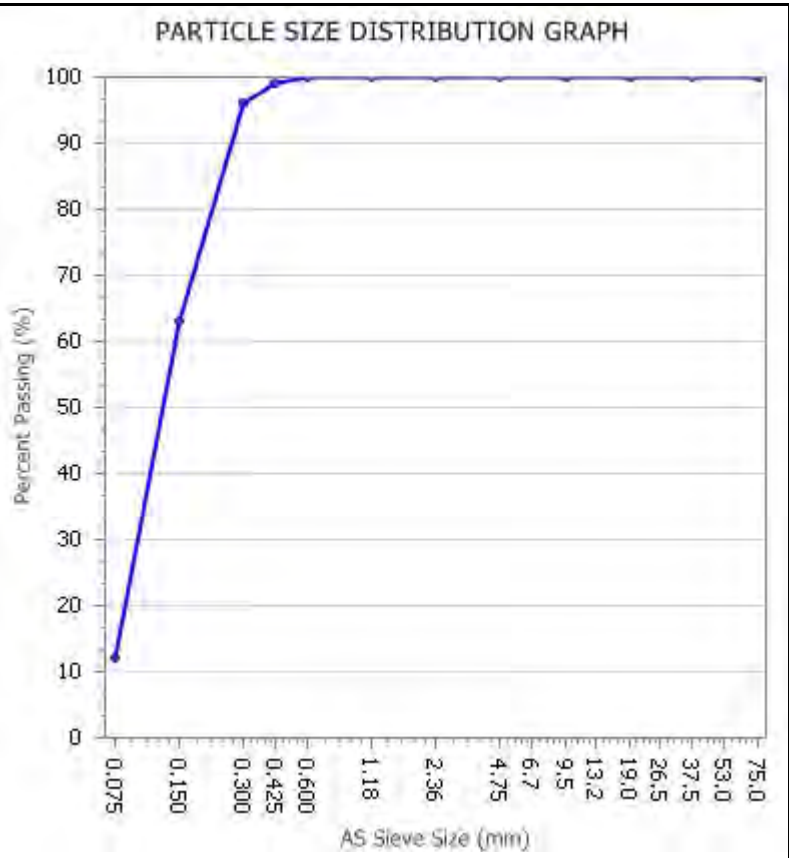
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1758-1 Project Number: 5029/P/256 Lot Number: A05 Sample 18 Depth 7.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6459 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		100	
0.425		99	
0.300		96	
0.150		63	
0.075		12	




Remarks



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 Form ID: W9Rep Rev 2

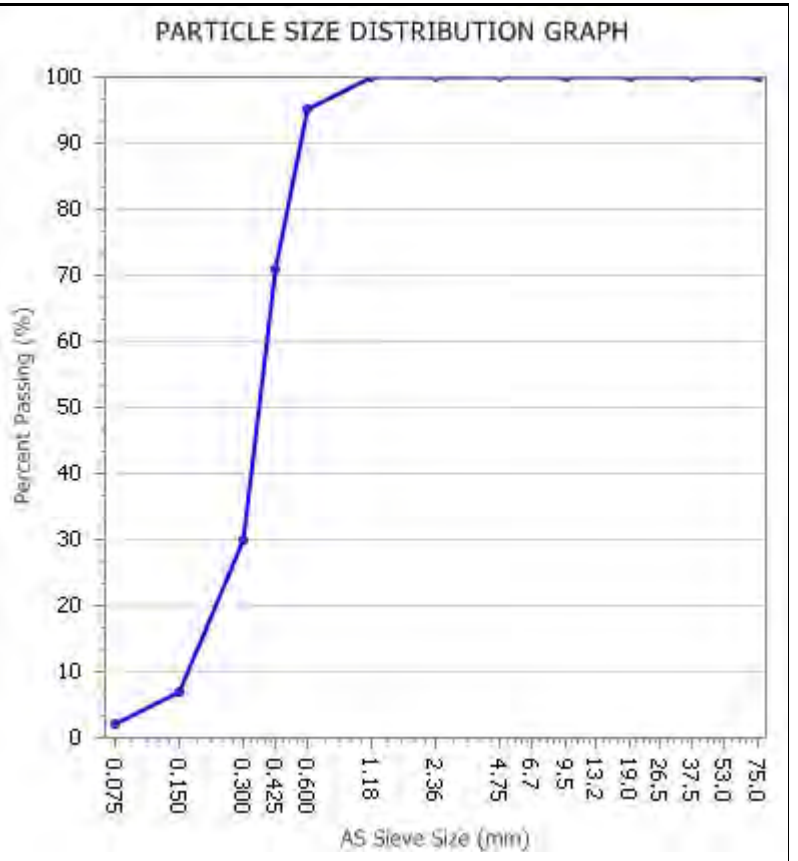


## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1759-1 Project Number: 5029/P/256 Lot Number: A06 Sample 1 Depth 0.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6460 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		71	
0.300		30	
0.150		7	
0.075		2	




Remarks



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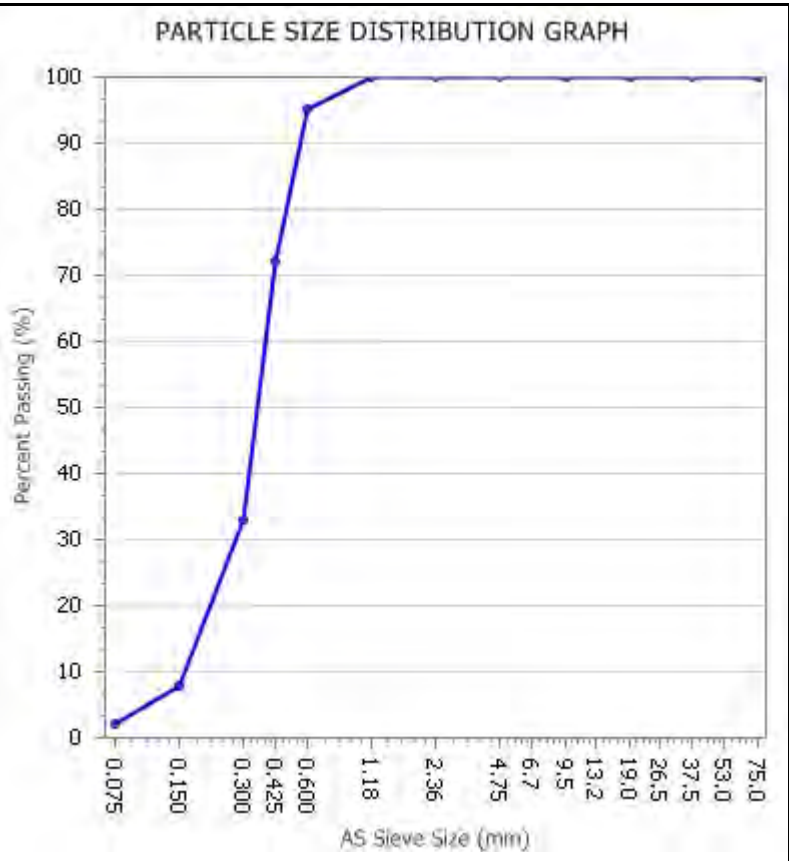
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

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Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1760-1 Project Number: 5029/P/256 Lot Number: A06 Sample 2 Depth 0.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6461 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		72	
0.300		33	
0.150		8	
0.075		2	




Remarks



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Accreditation Number: 5029



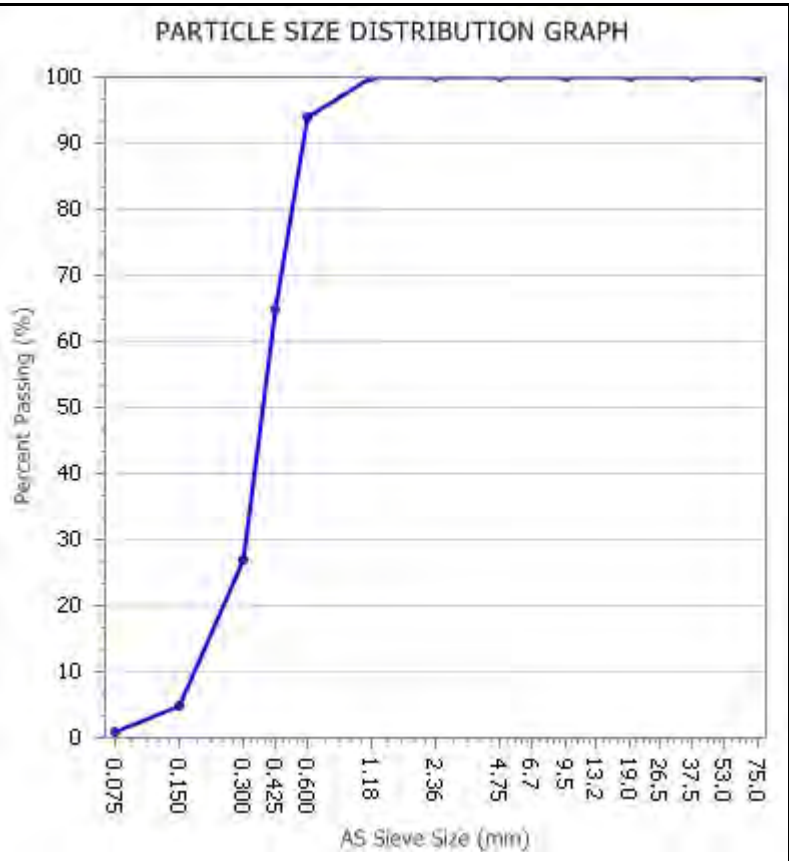
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

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Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1761-1 Project Number: 5029/P/256 Lot Number: A06 Sample 3 Depth 0.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6462 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		94	
0.425		65	
0.300		27	
0.150		5	
0.075		1	




Remarks



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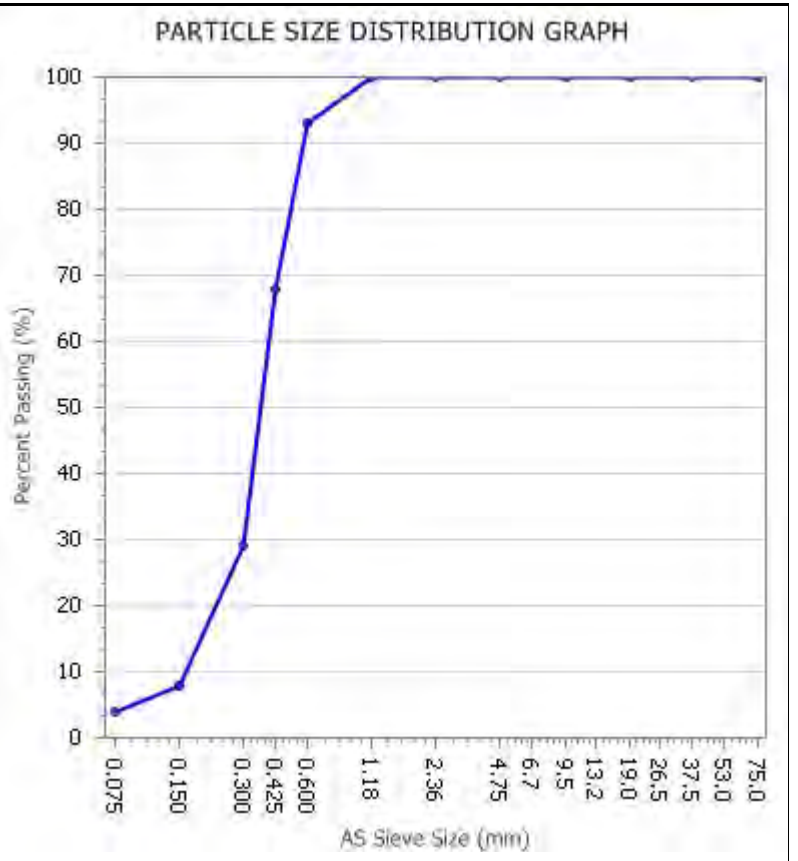
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

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Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1762-1 Project Number: 5029/P/256 Lot Number: A06 Sample 4 Depth 0.7m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6463 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		93	
0.425		68	
0.300		29	
0.150		8	
0.075		4	



Remarks

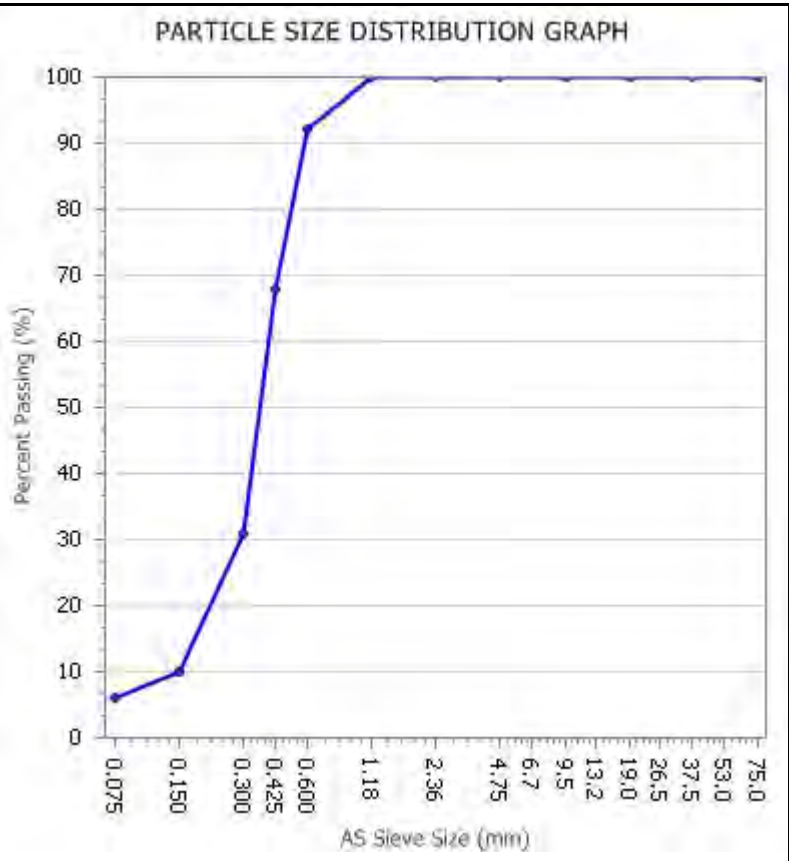
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

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Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1763-1 Project Number: 5029/P/256 Lot Number: A06 Sample 5 Depth 1.1m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6464 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-right: 1px solid black;">           Test Request Area  Material Type         </td> <td style="width: 50%;">           Sample Location   Yellow silty SAND         </td> </tr> </table>	Test Request Area  Material Type	Sample Location   Yellow silty SAND
Test Request Area  Material Type	Sample Location   Yellow silty SAND		

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		92	
0.425		68	
0.300		31	
0.150		10	
0.075		6	




Remarks



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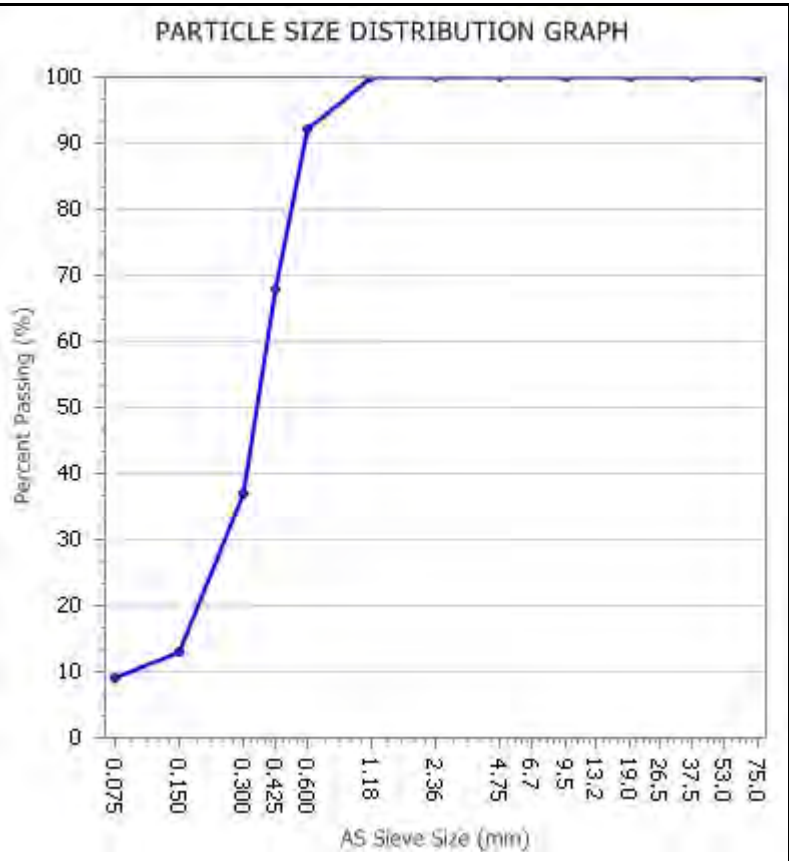
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1764-1 Project Number: 5029/P/256 Lot Number: A06 Sample 6 Depth 1.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6465 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		92	
0.425		68	
0.300		37	
0.150		13	
0.075		9	




Remarks



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Accreditation Number: 5029



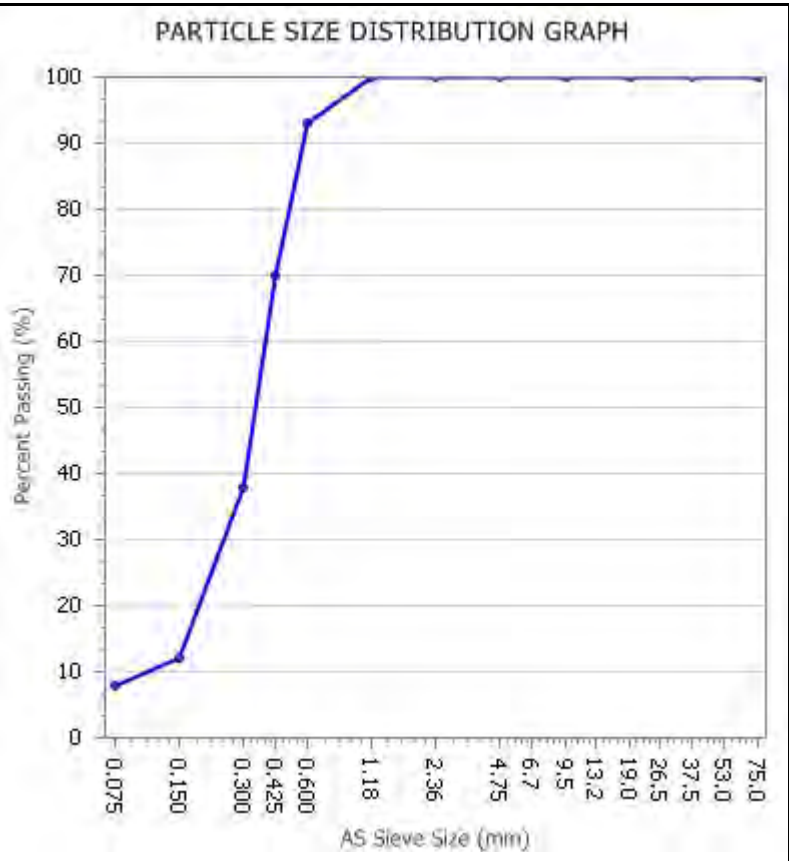
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1765-1 Project Number: 5029/P/256 Lot Number: A06 Sample 7 Depth 1.4m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6466 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		93	
0.425		70	
0.300		38	
0.150		12	
0.075		8	




Remarks



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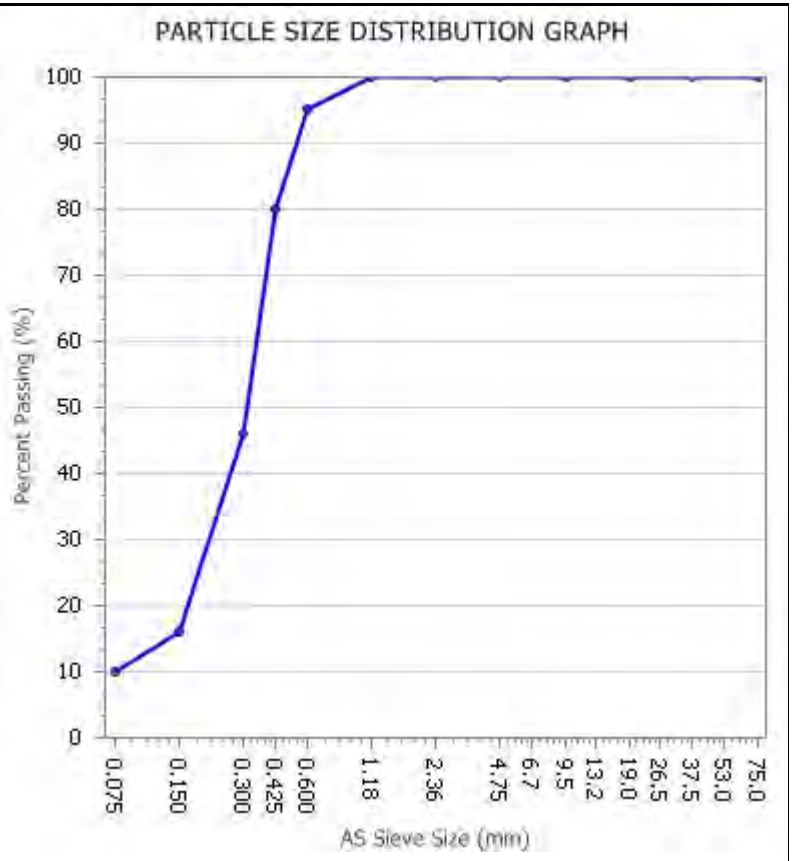
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1767-1 Project Number: 5029/P/256 Lot Number: A06 Sample 9 Depth 2.1m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6468 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		80	
0.300		46	
0.150		16	
0.075		10	




Remarks



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Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

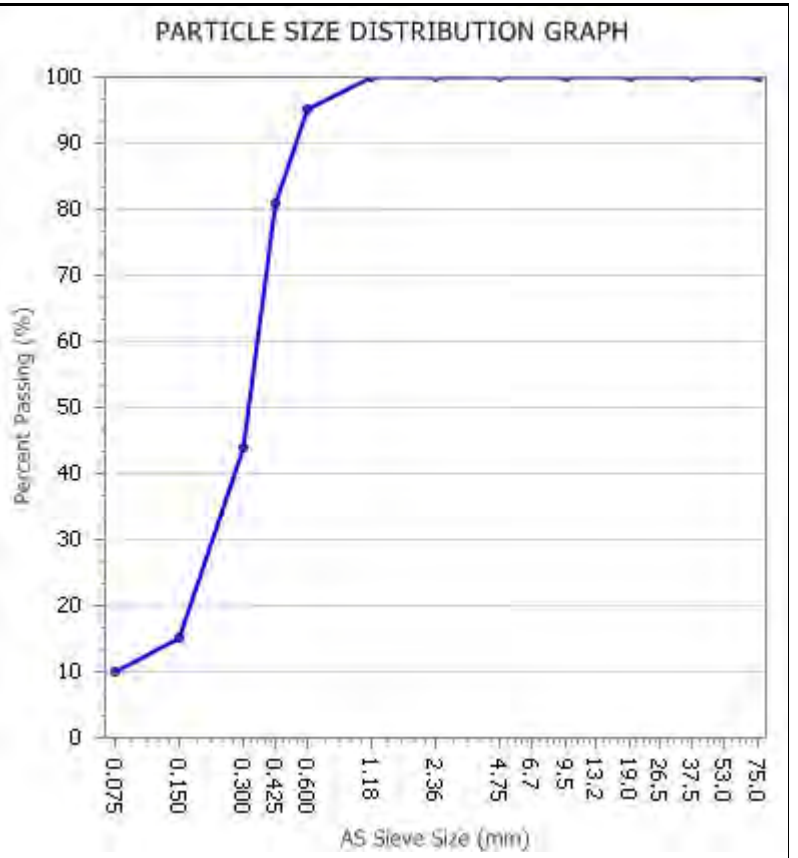


## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1768-1 Project Number: 5029/P/256 Lot Number: A06 Sample 10 Depth 2.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6469 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		81	
0.300		44	
0.150		15	
0.075		10	



Remarks

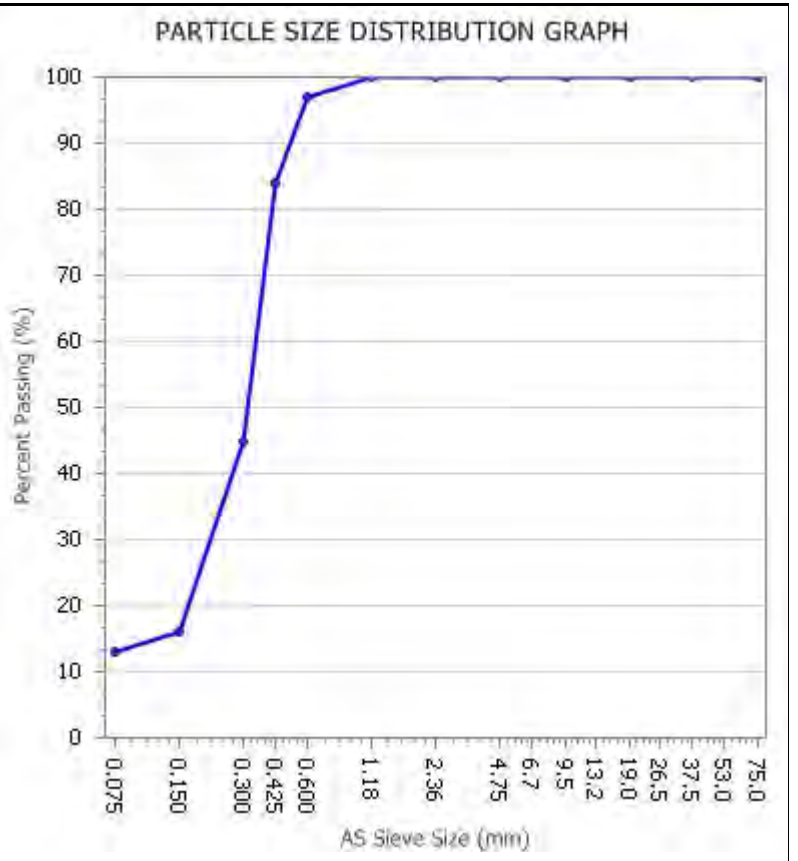
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## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1769-1 Project Number: 5029/P/256 Lot Number: A06 Sample 12 Depth 2.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6470 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		97	
0.425		84	
0.300		45	
0.150		16	
0.075		13	




Remarks



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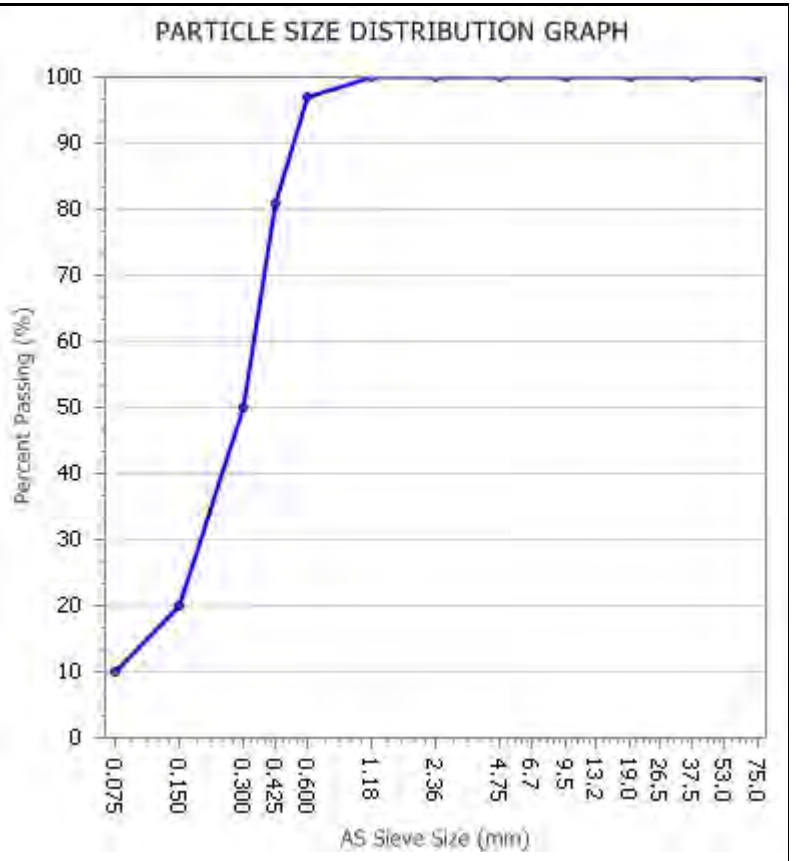
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1770-1 Project Number: 5029/P/256 Lot Number: A07 Sample 1 Depth 0.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6471 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		97	
0.425		81	
0.300		50	
0.150		20	
0.075		10	



Remarks

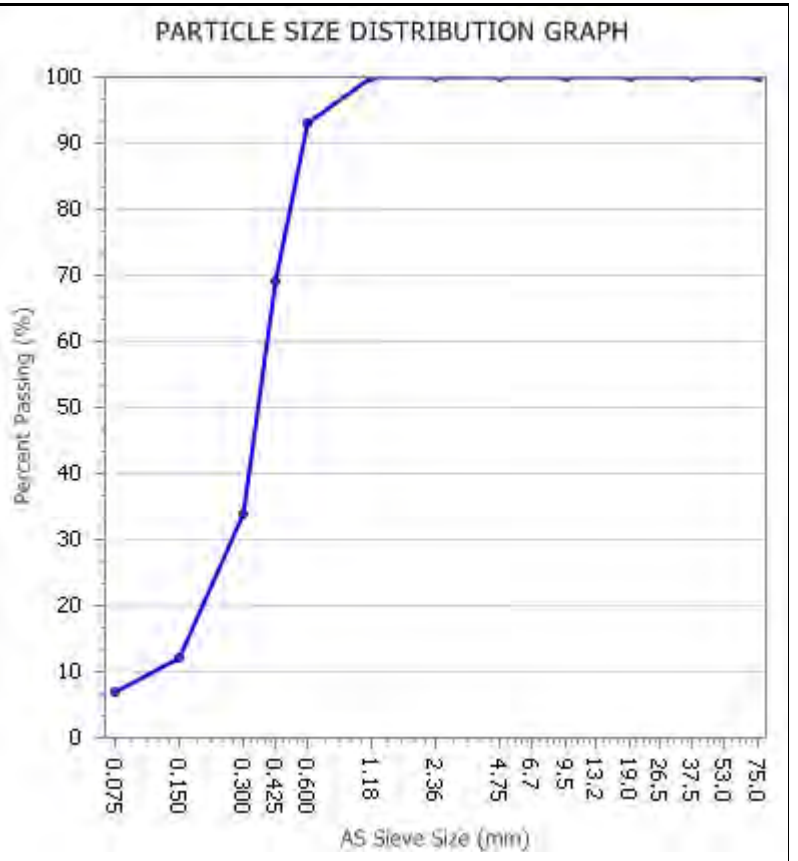
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1771-1 Project Number: 5029/P/256 Lot Number: A07 Sample 2 Depth 0.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6472 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		93	
0.425		69	
0.300		34	
0.150		12	
0.075		7	



Remarks

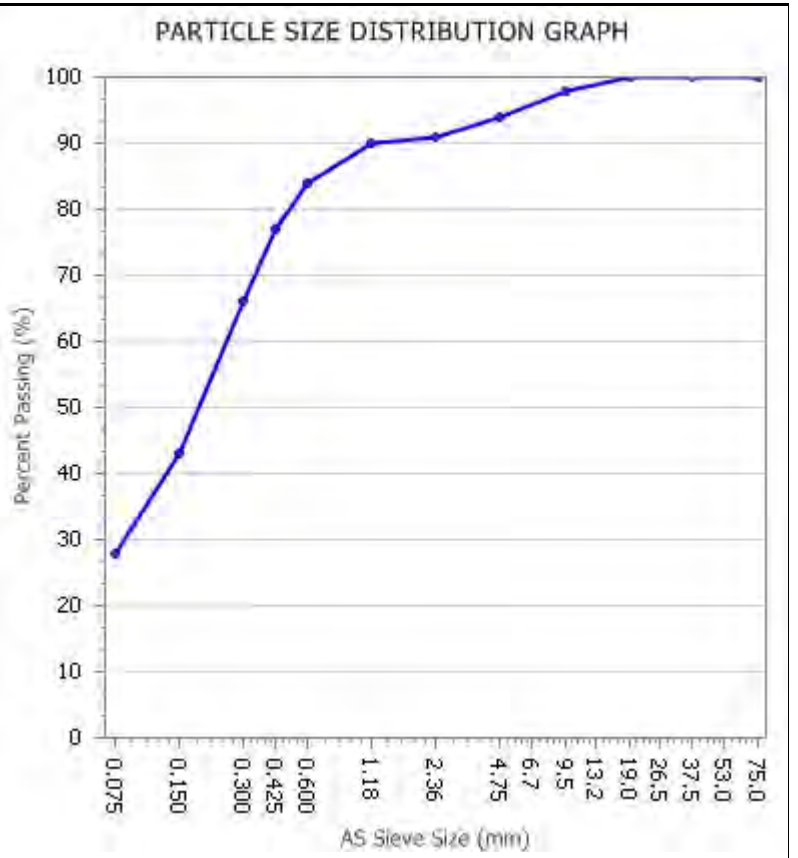
	<p>The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.          Accredited for compliance with ISO/IEC 17025</p> <p>Accreditation Number: 5029</p>	 Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2
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## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1773-1 Project Number: 5029/P/256 Lot Number: A07 Sample 4 Depth 0.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6474 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow Sandy SILT
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		98	
4.75		94	
2.36		91	
1.18		90	
0.600		84	
0.425		77	
0.300		66	
0.150		43	
0.075		28	




Remarks



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Accreditation Number: 5029



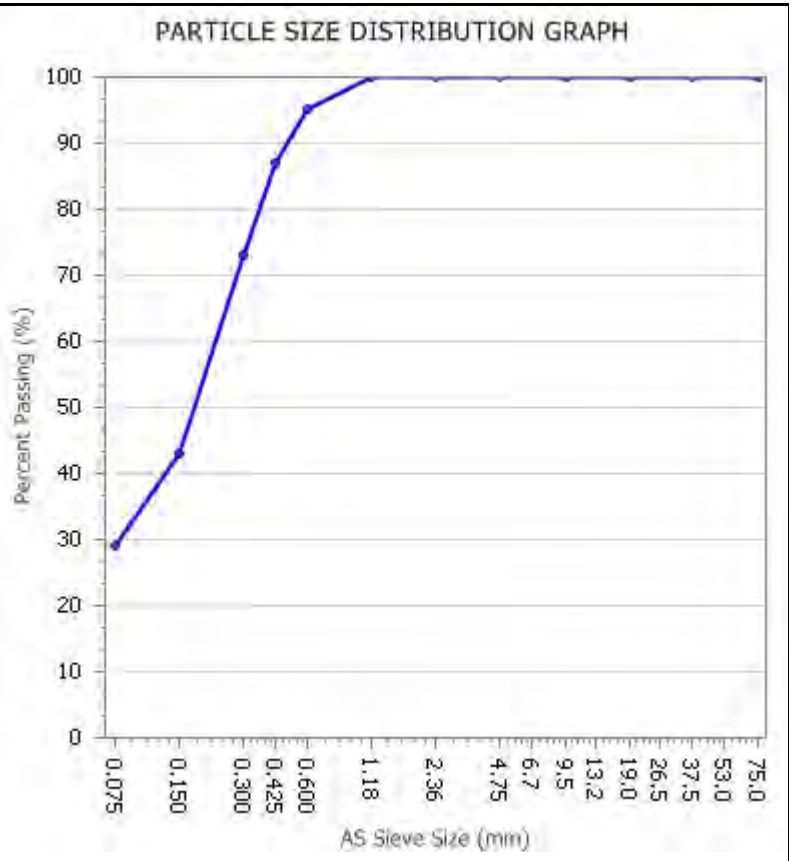
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1774-1 Project Number: 5029/P/256 Lot Number: A07 Sample 5 Depth 1.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6475 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		87	
0.300		73	
0.150		43	
0.075		29	



Remarks

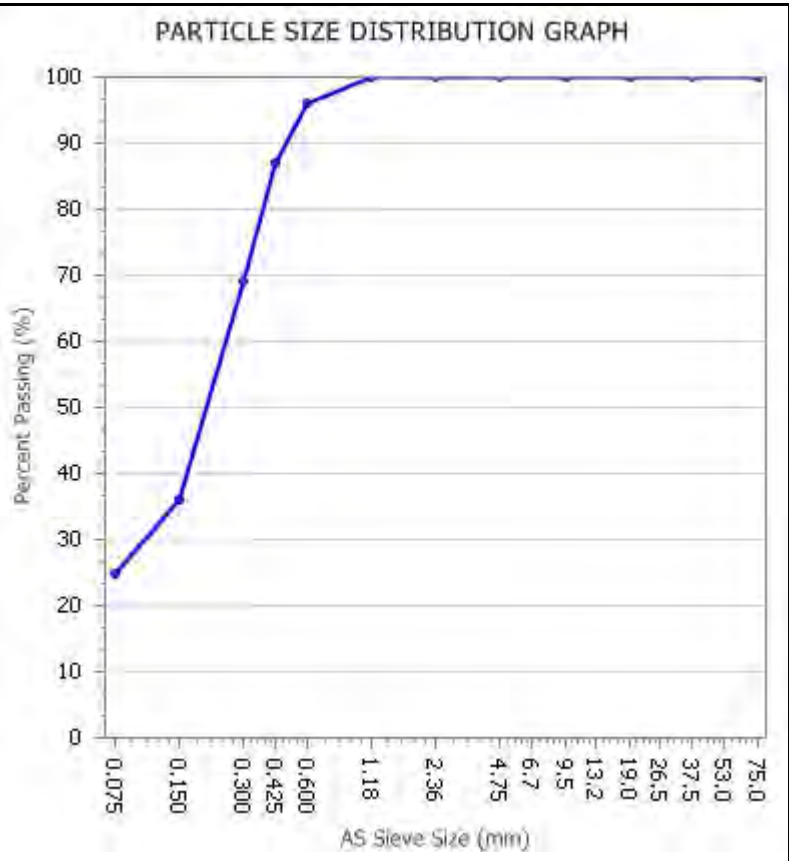
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1775-1 Project Number: 5029/P/256 Lot Number: A07 Sample 6 Depth 1.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6476 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		87	
0.300		69	
0.150		36	
0.075		25	




Remarks



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Accreditation Number: 5029



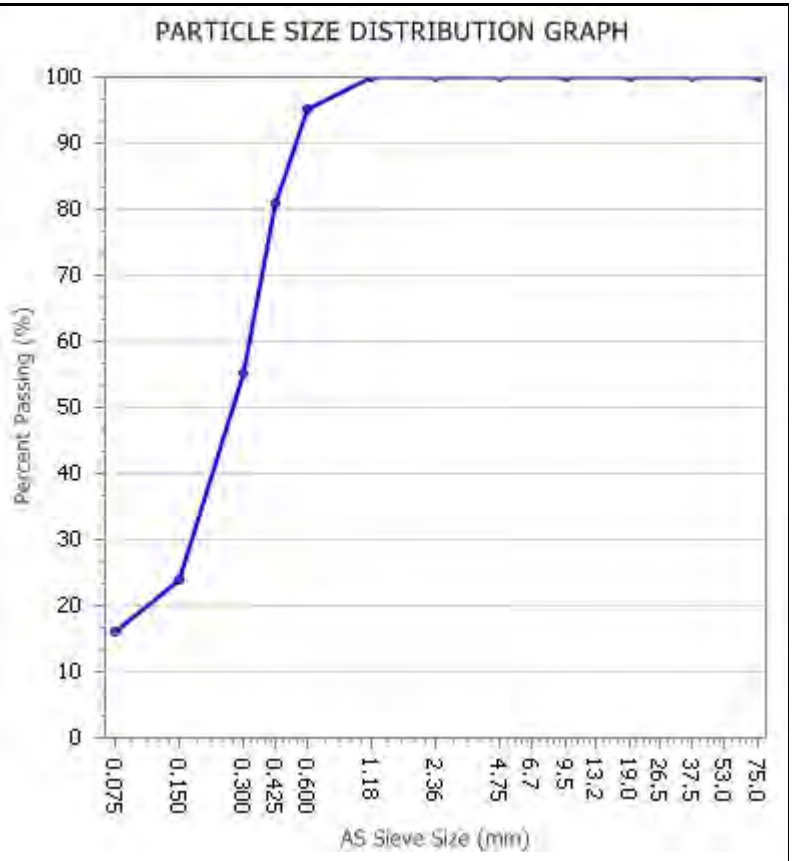
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1776-1 Project Number: 5029/P/256 Lot Number: A07 Sample 7 Depth 1.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6477 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		81	
0.300		55	
0.150		24	
0.075		16	




Remarks



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Accreditation Number: 5029



Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

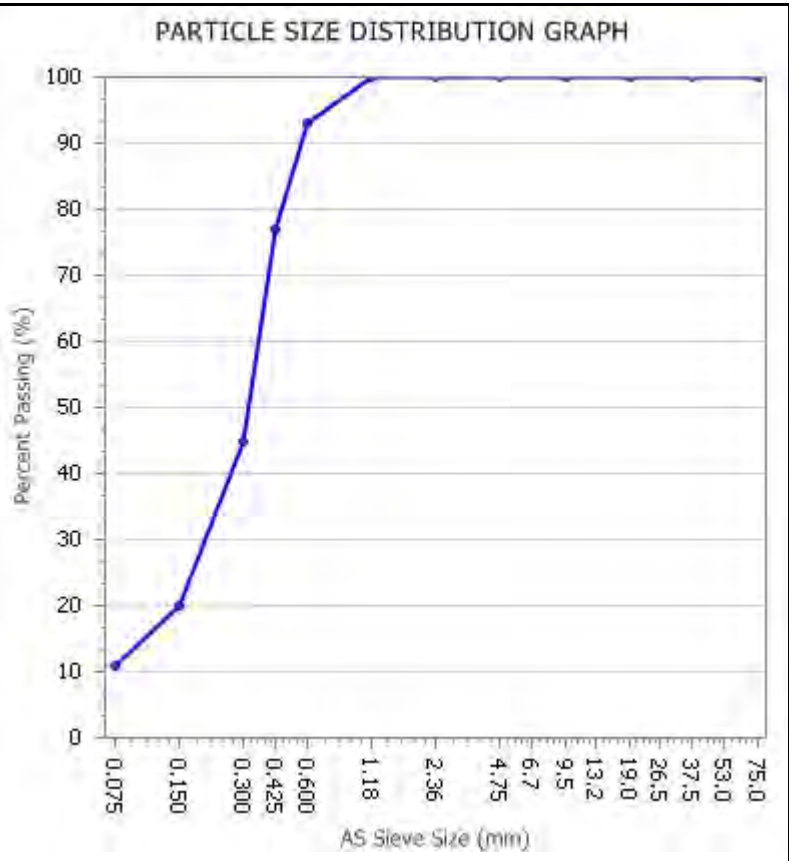


## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1777-1 Project Number: 5029/P/256 Lot Number: A07 Sample 8 Depth 1.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6478 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		93	
0.425		77	
0.300		45	
0.150		20	
0.075		11	




Remarks



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Accreditation Number: 5029



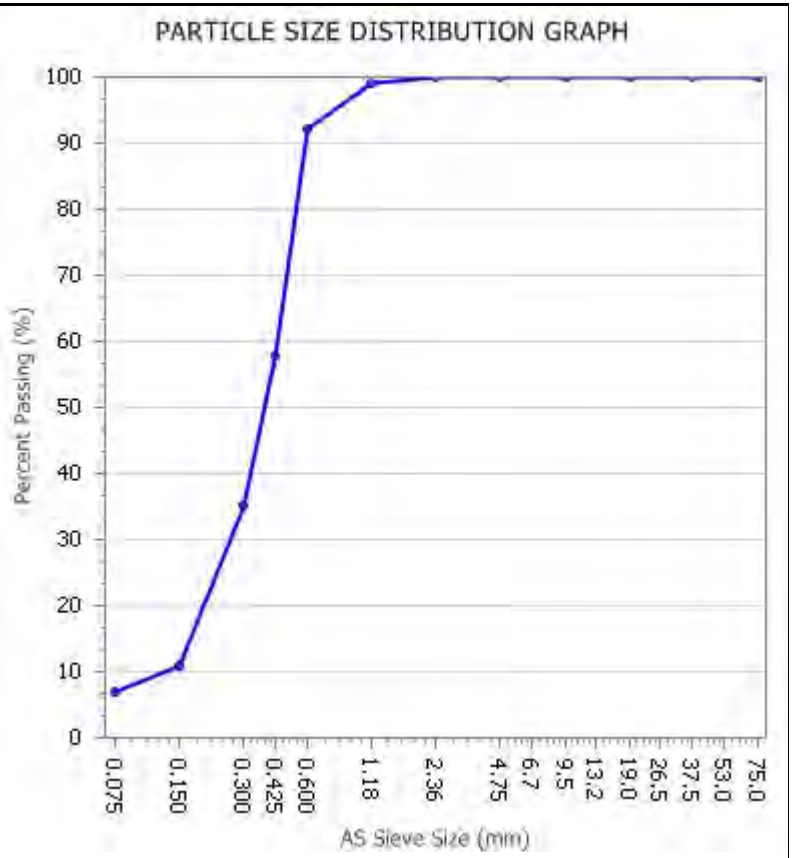
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1779-1 Project Number: 5029/P/256 Lot Number: A07 Sample 10 Depth 2.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6480 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		99	
0.600		92	
0.425		58	
0.300		35	
0.150		11	
0.075		7	



Remarks

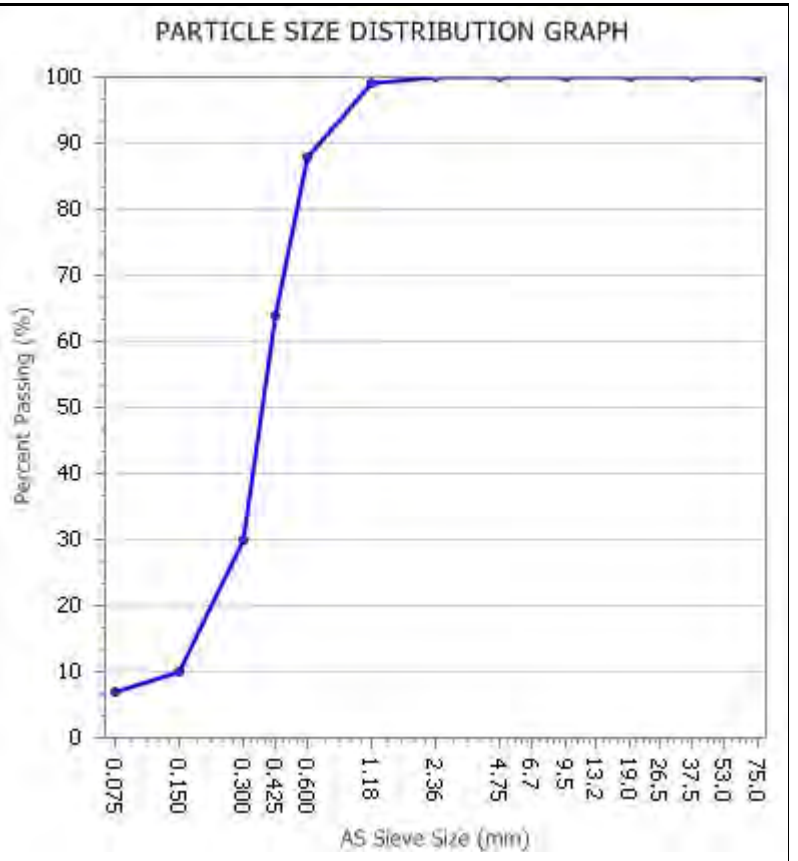
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1780-1 Project Number: 5029/P/256 Lot Number: A07 Sample 11 Depth 2.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6481 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		99	
0.600		88	
0.425		64	
0.300		30	
0.150		10	
0.075		7	



Remarks

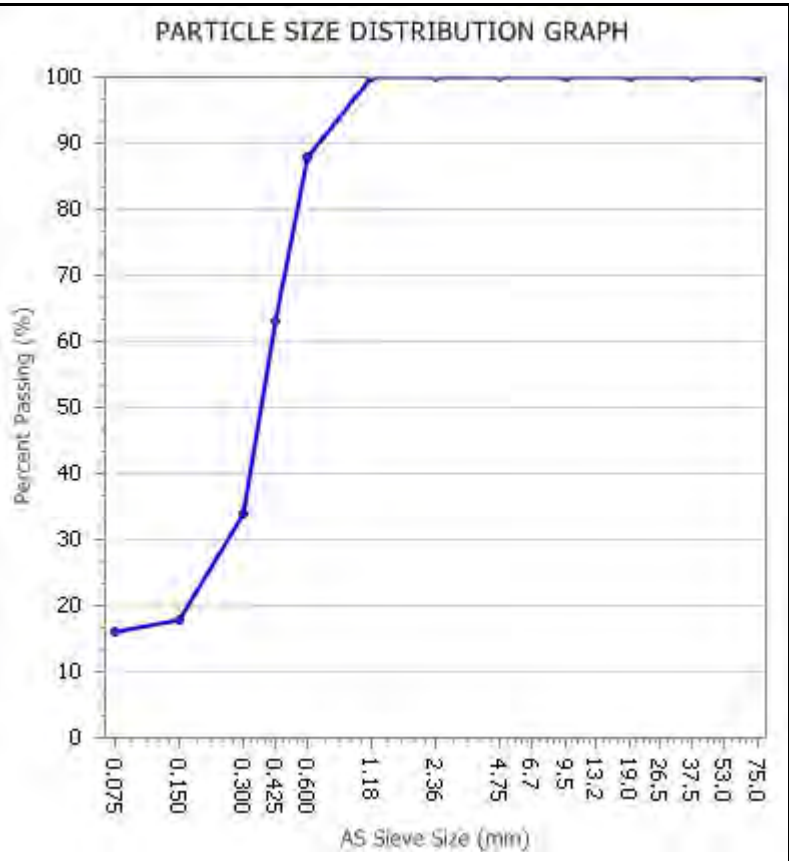
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1781-1 Project Number: 5029/P/256 Lot Number: A07 Sample 12 Depth 2.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6482 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 20/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		88	
0.425		63	
0.300		34	
0.150		18	
0.075		16	



Remarks

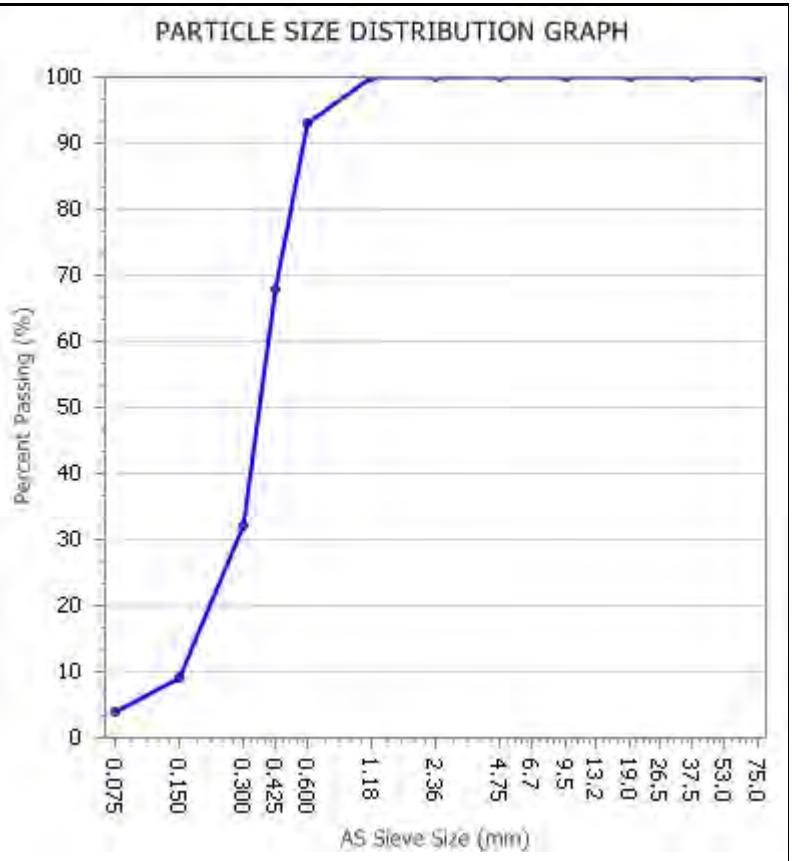
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1782-1 Project Number: 5029/P/256 Lot Number: A08 Sample 1 Depth 0.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6483 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		93	
0.425		68	
0.300		32	
0.150		9	
0.075		4	



Remarks

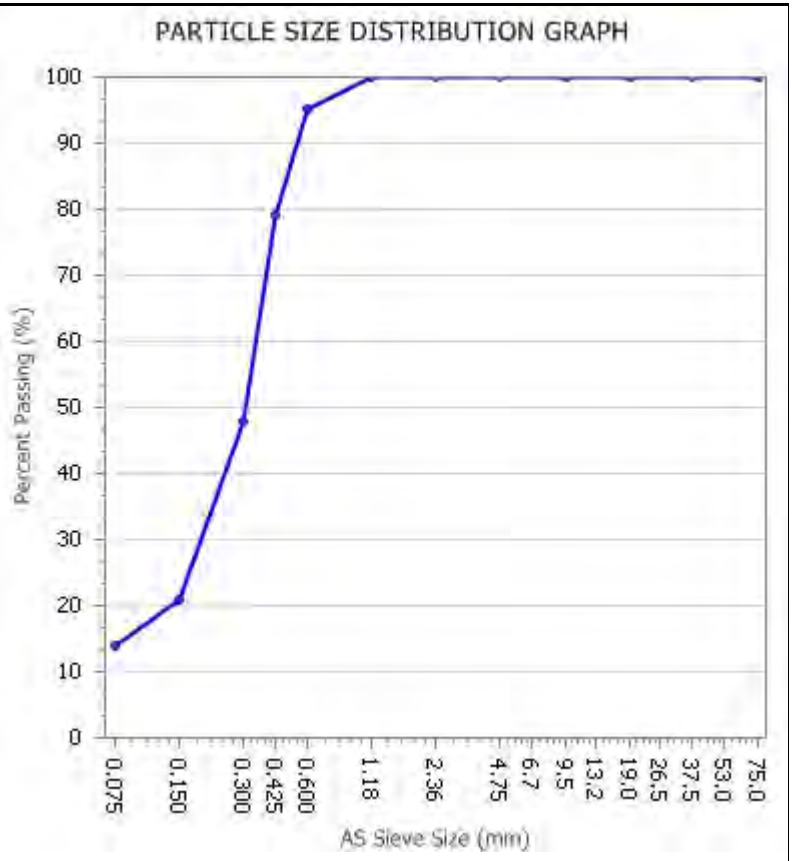
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1783-1 Project Number: 5029/P/256 Lot Number: A08 Sample 2 Depth 0.2m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6484 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		79	
0.300		48	
0.150		21	
0.075		14	



Remarks

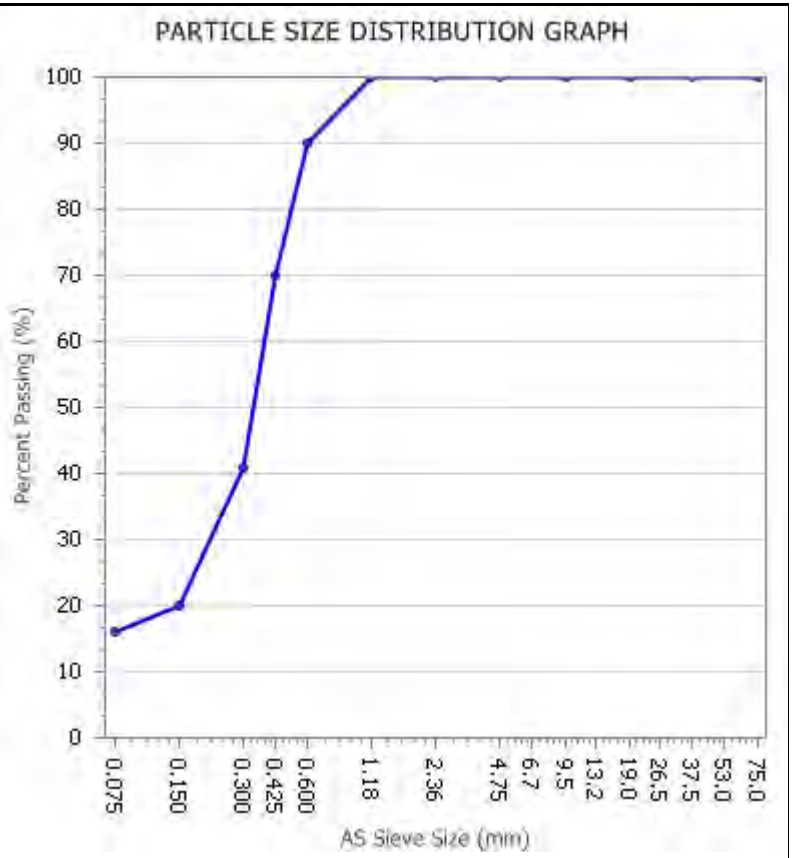
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1784-1 Project Number: 5029/P/256 Lot Number: A08 Sample 3 Depth 0.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6485 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		90	
0.425		70	
0.300		41	
0.150		20	
0.075		16	



Remarks

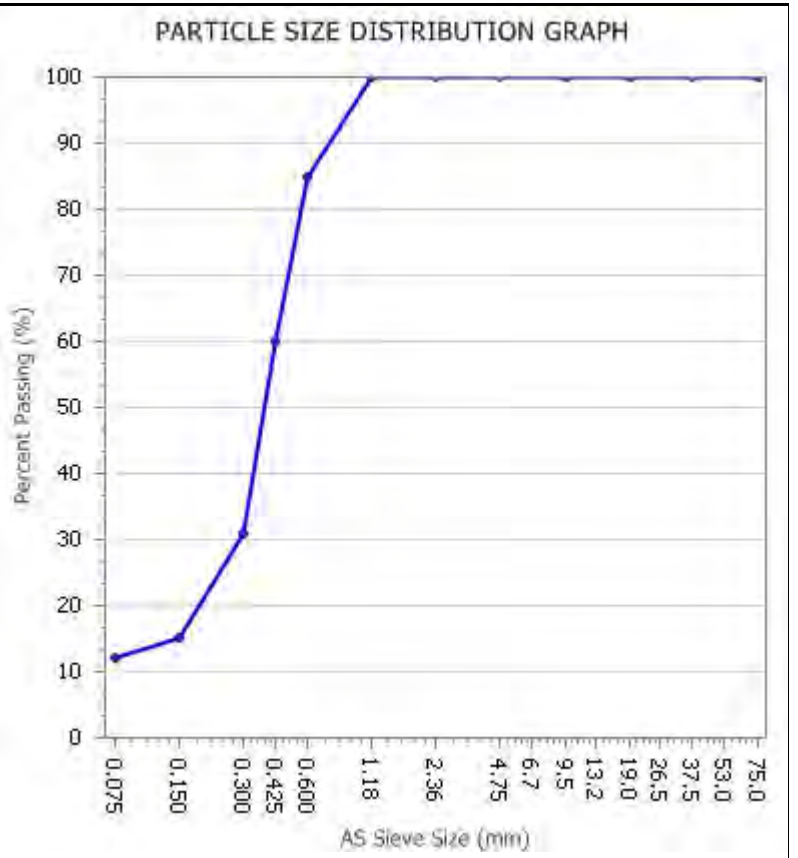
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1785-1 Project Number: 5029/P/256 Lot Number: A08 Sample 4 Depth 0.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6486 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		85	
0.425		60	
0.300		31	
0.150		15	
0.075		12	




Remarks



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Accreditation Number: 5029



Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

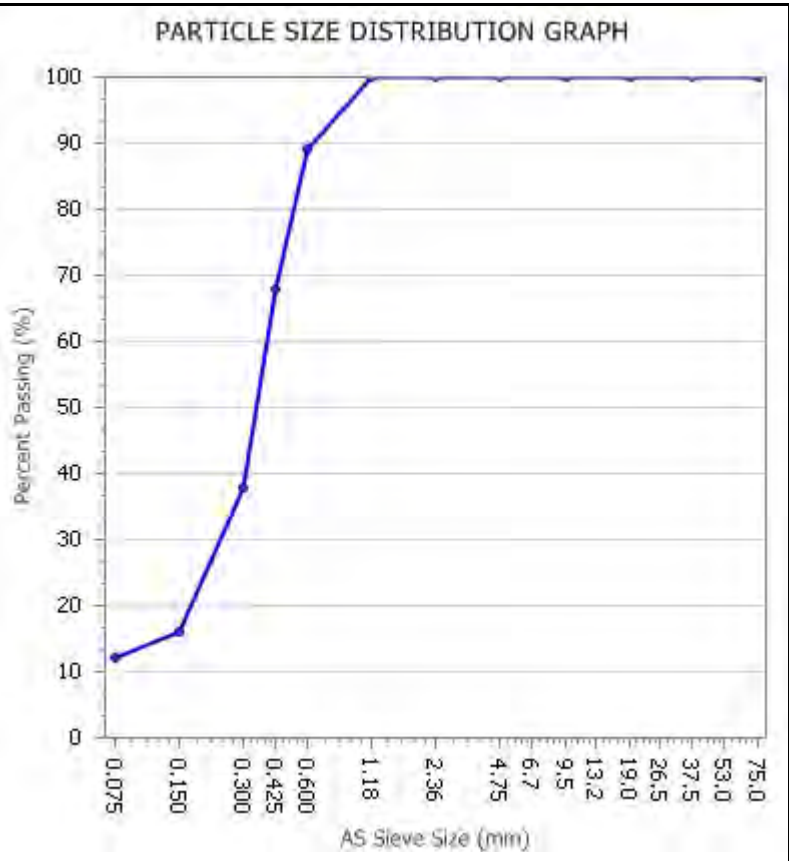


# PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1831-1 Project Number: 5029/P/256 Lot Number: A08 Sample 5 Depth 1.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 07/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6487 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		89	
0.425		68	
0.300		38	
0.150		16	
0.075		12	




Remarks



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Accreditation Number: 5029



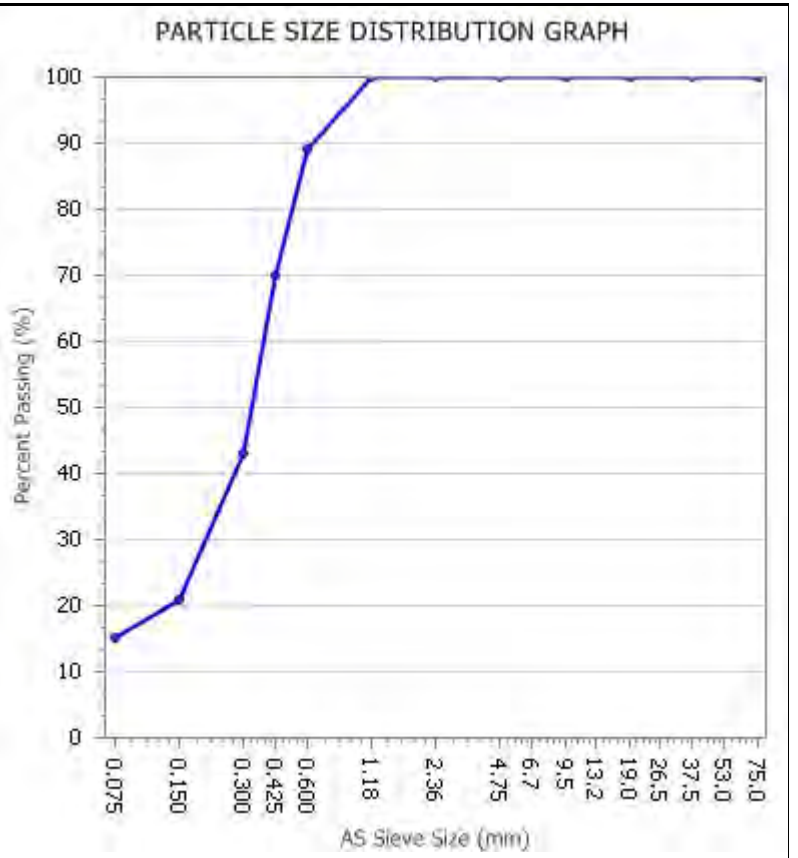
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 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1786-1 Project Number: 5029/P/256 Lot Number: A08 Sample 6 Depth 1.2m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6488 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
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AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		89	
0.425		70	
0.300		43	
0.150		21	
0.075		15	



Remarks

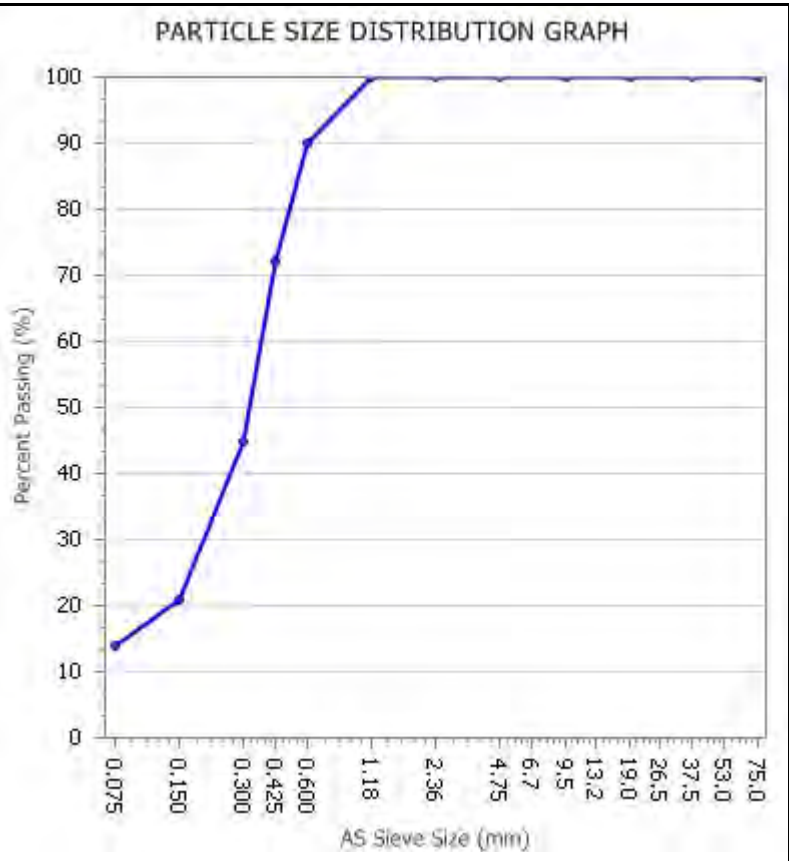
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1787-1 Project Number: 5029/P/256 Lot Number: A08 Sample 8 Depth 1.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6490 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		90	
0.425		72	
0.300		45	
0.150		21	
0.075		14	




Remarks



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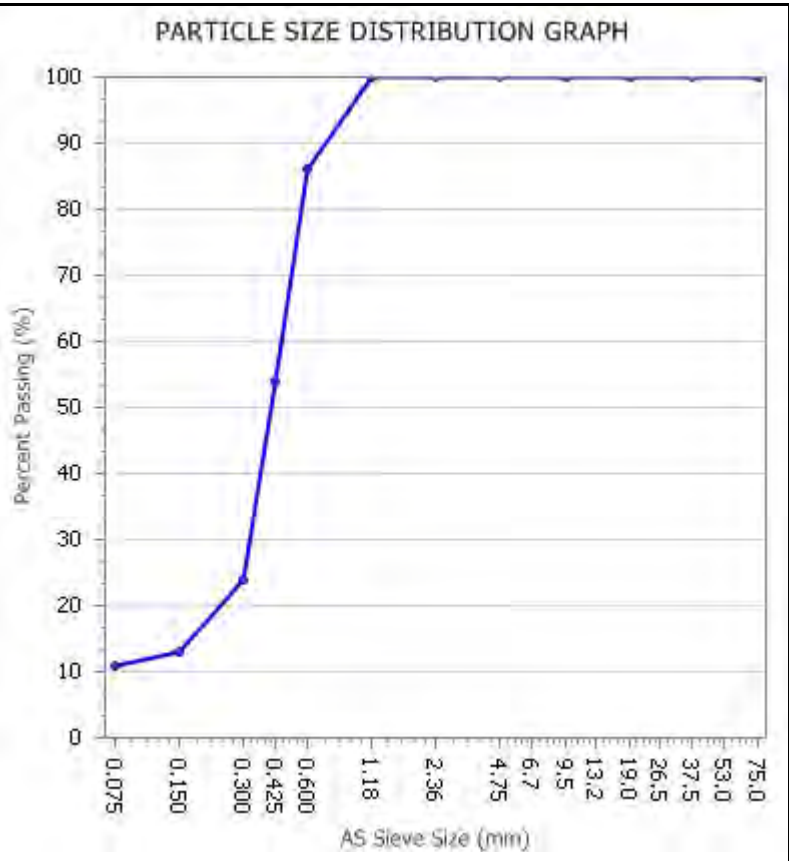
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 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1789-1 Project Number: 5029/P/256 Lot Number: A08 Sample 10 Depth 2.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6492 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		86	
0.425		54	
0.300		24	
0.150		13	
0.075		11	



Remarks

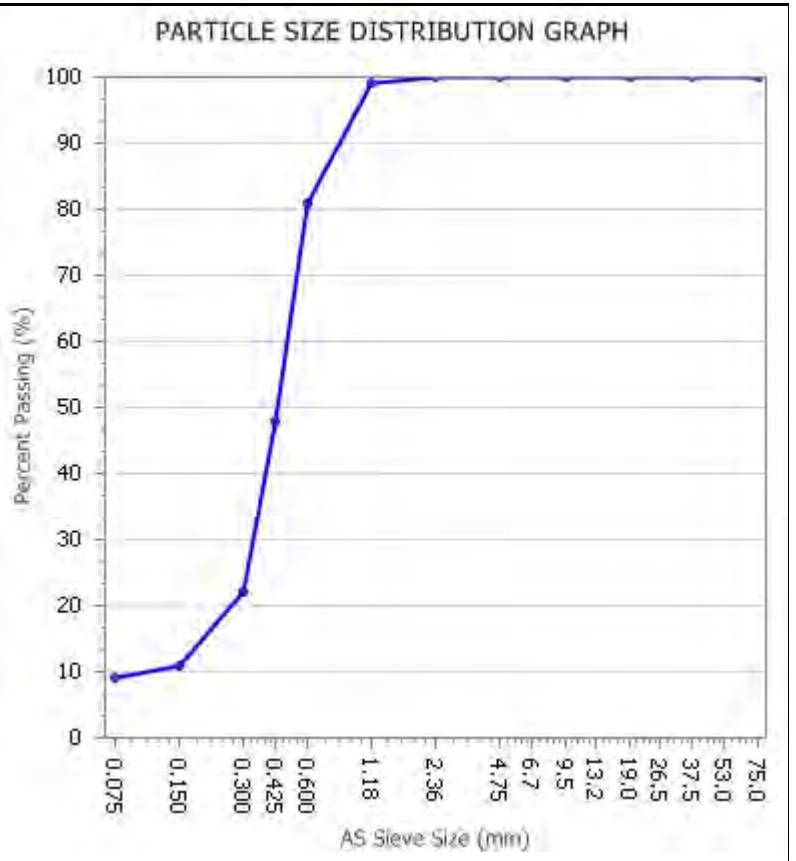
	<p>The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.          Accredited for compliance with ISO/IEC 17025</p>	
	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

# PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1832-1 Project Number: 5029/P/256 Lot Number: A08 Sample 11 Depth 2.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 07/09/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6493 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		99	
0.600		81	
0.425		48	
0.300		22	
0.150		11	
0.075		9	




Remarks



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Accreditation Number: 5029



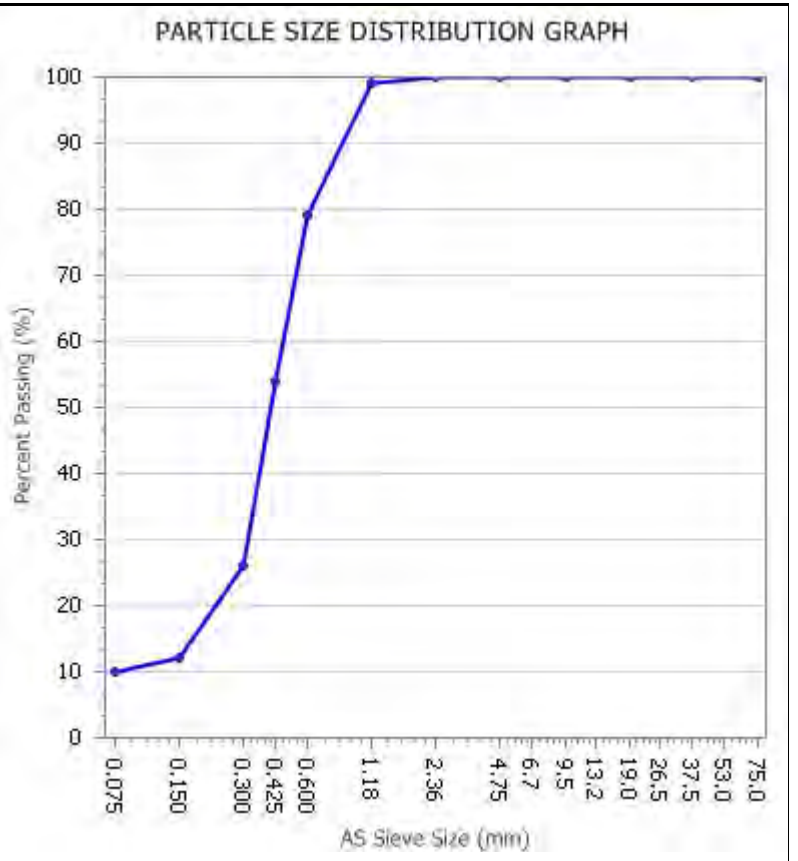
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1790-1 Project Number: 5029/P/256 Lot Number: A08 Sample 12 Depth 2.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6494 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		99	
0.600		79	
0.425		54	
0.300		26	
0.150		12	
0.075		10	



Remarks

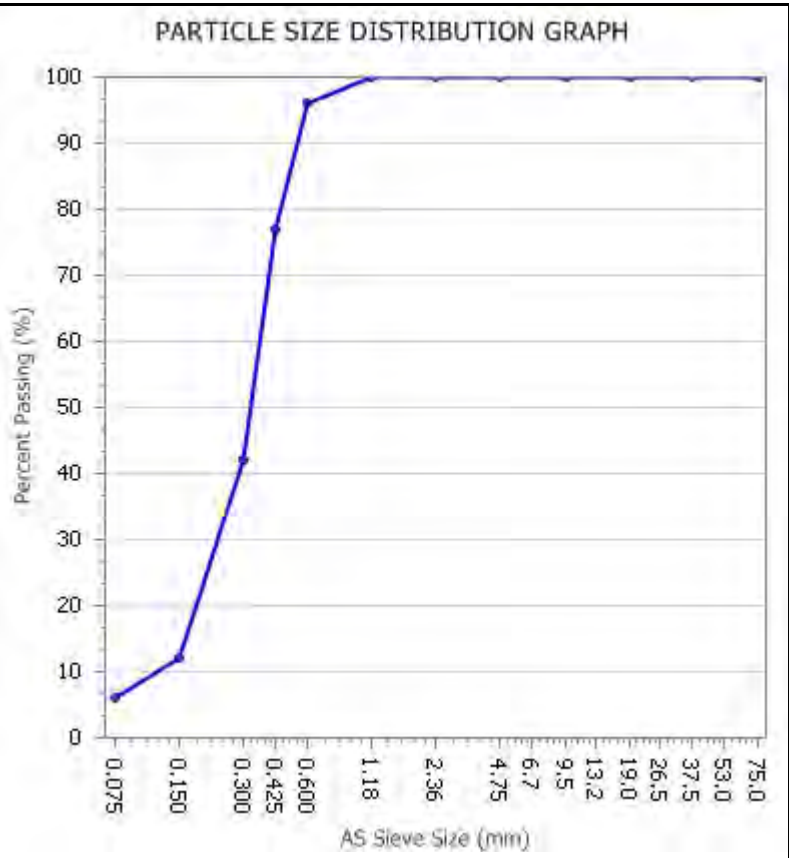
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Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2	

# PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1833-1 Project Number: 5029/P/256 Lot Number: A09 Sample 1 Depth 0.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 07/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6495 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-right: 1px solid black;">           Test Request Area  Material Type         </td> <td style="width: 50%;">           Sample Location   Grey Silty SAND         </td> </tr> </table>	Test Request Area  Material Type	Sample Location   Grey Silty SAND
Test Request Area  Material Type	Sample Location   Grey Silty SAND		

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		77	
0.300		42	
0.150		12	
0.075		6	




Remarks



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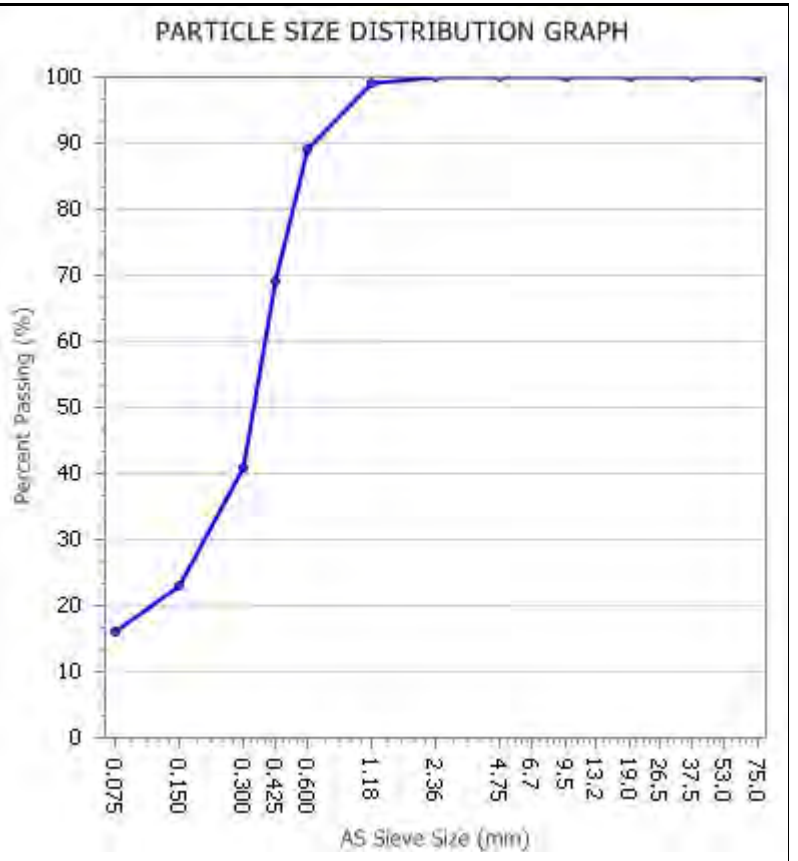
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1791-1 Project Number: 5029/P/256 Lot Number: A09 Sample 3 Depth 0.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6497 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		99	
0.600		89	
0.425		69	
0.300		41	
0.150		23	
0.075		16	




Remarks



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Accreditation Number: 5029



Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

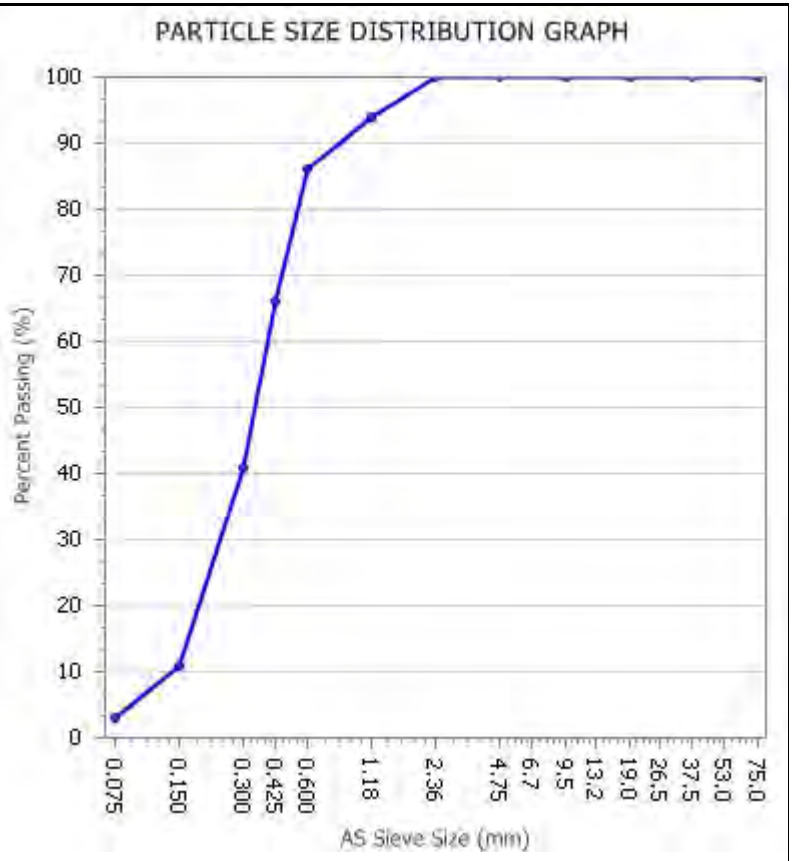


## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1792-1 Project Number: 5029/P/256 Lot Number: A09 Sample 5 Depth 1.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6499 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		94	
0.600		86	
0.425		66	
0.300		41	
0.150		11	
0.075		3	




Remarks



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Accreditation Number: 5029



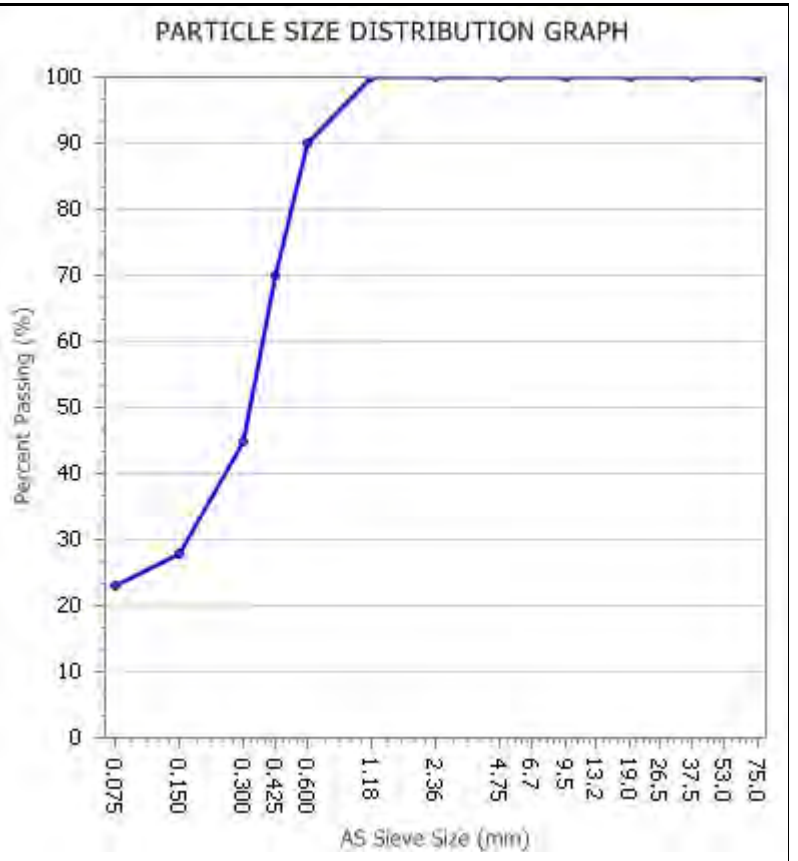
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1793-1 Project Number: 5029/P/256 Lot Number: A09 Sample 6 Depth 1.4m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6500 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		90	
0.425		70	
0.300		45	
0.150		28	
0.075		23	



Remarks

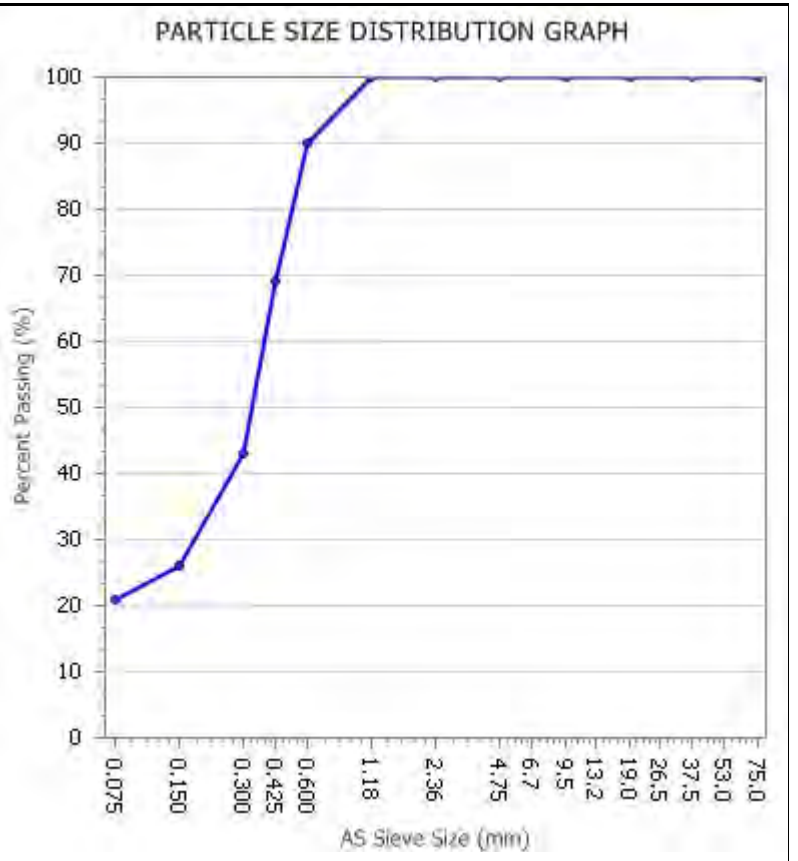
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1794-1 Project Number: 5029/P/256 Lot Number: A09 Sample 7 Depth 1.6m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6501 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		90	
0.425		69	
0.300		43	
0.150		26	
0.075		21	



Remarks

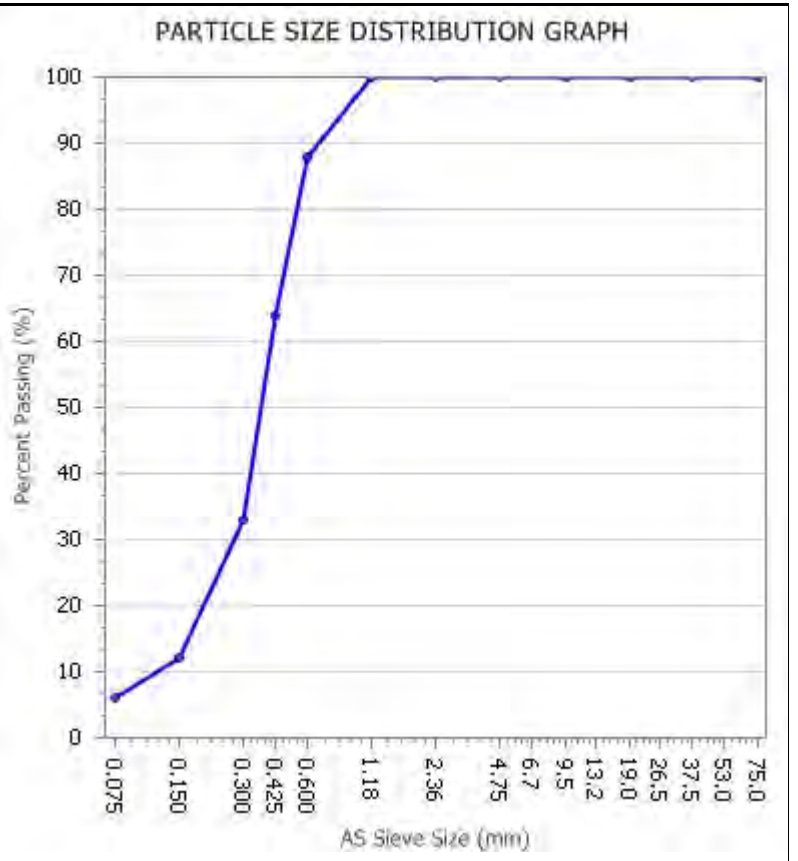
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1795-1 Project Number: 5029/P/256 Lot Number: A09 Sample 8 Depth 1.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	--

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6502 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		88	
0.425		64	
0.300		33	
0.150		12	
0.075		6	




Remarks



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Accreditation Number: 5029



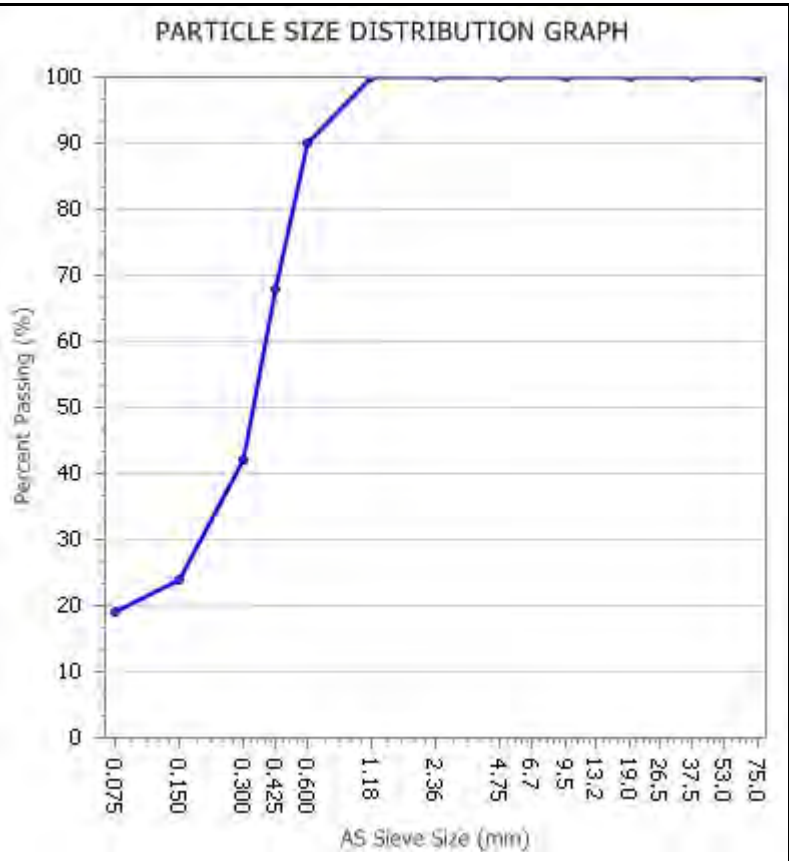
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1796-1 Project Number: 5029/P/256 Lot Number: A09 Sample 9 Depth 2.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6503 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		90	
0.425		68	
0.300		42	
0.150		24	
0.075		19	



Remarks

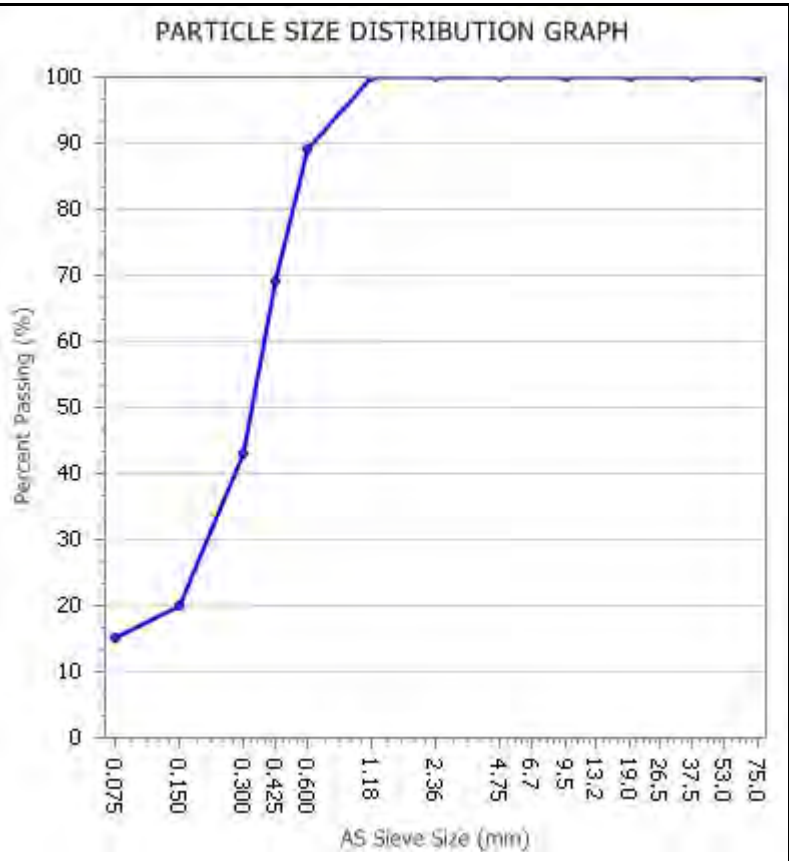
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1797-1 Project Number: 5029/P/256 Lot Number: A09 Sample 11 Depth 2.4m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
--	---

Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6505 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey SAND
---	--

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		89	
0.425		69	
0.300		43	
0.150		20	
0.075		15	



Remarks

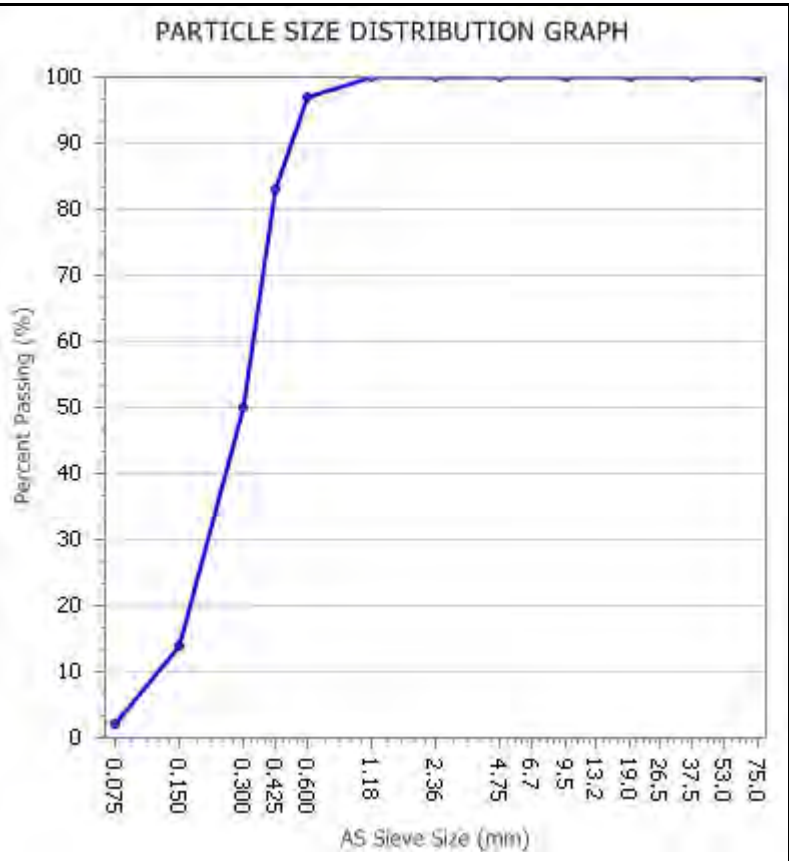
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	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1837-1 Project Number: 5029/P/256 Lot Number: A10 Sample 1 Depth 0.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 07/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6507 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		97	
0.425		83	
0.300		50	
0.150		14	
0.075		2	




Remarks



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Accreditation Number: 5029



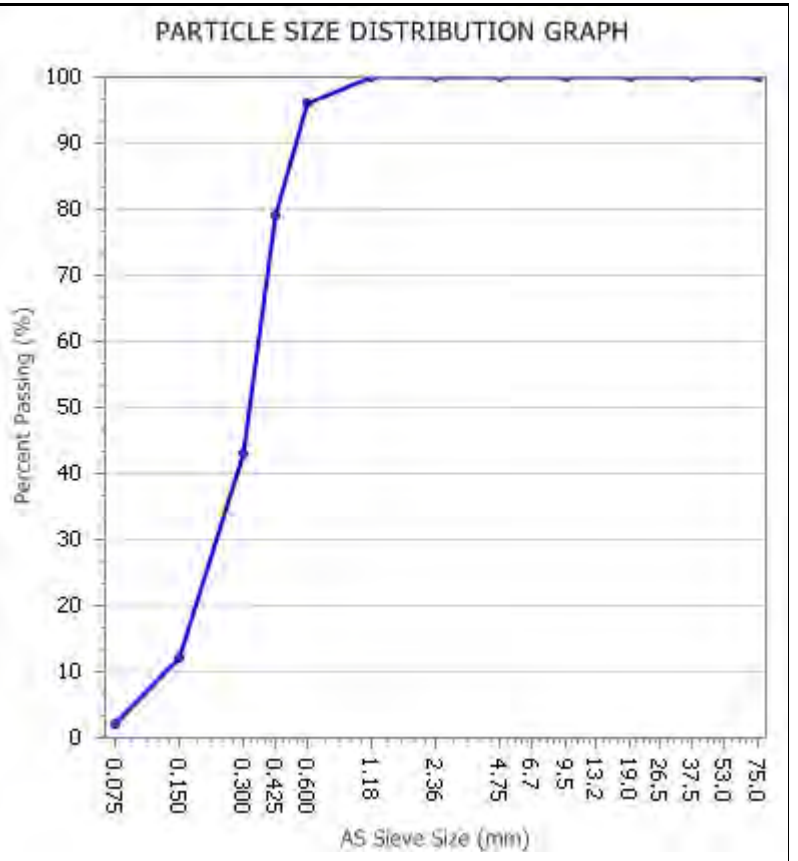
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT



Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1798-1 Project Number: 5029/P/256 Lot Number: A10 Sample 2 Depth 0.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6508 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		79	
0.300		43	
0.150		12	
0.075		2	



Remarks

	<p>The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.          Accredited for compliance with ISO/IEC 17025</p>	
	Accreditation Number: 5029	Approved Signatory: Janine Fischer Form ID: W9Rep Rev 2

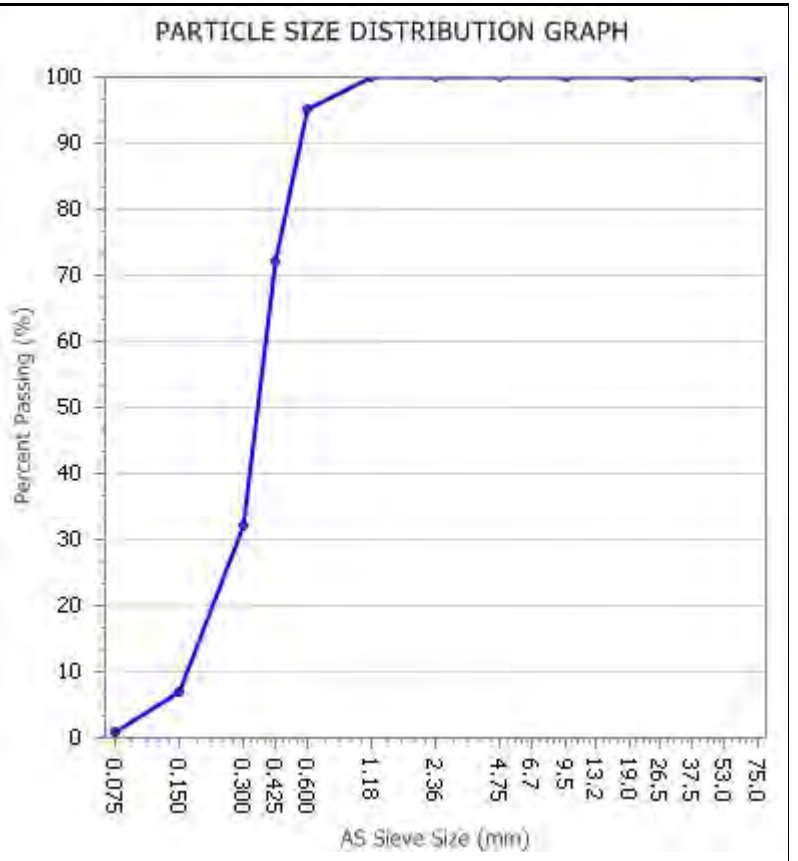


## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1799-1 Project Number: 5029/P/256 Lot Number: A10 Sample 3 Depth 0.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6509 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		72	
0.300		32	
0.150		7	
0.075		1	




Remarks



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Accreditation Number: 5029



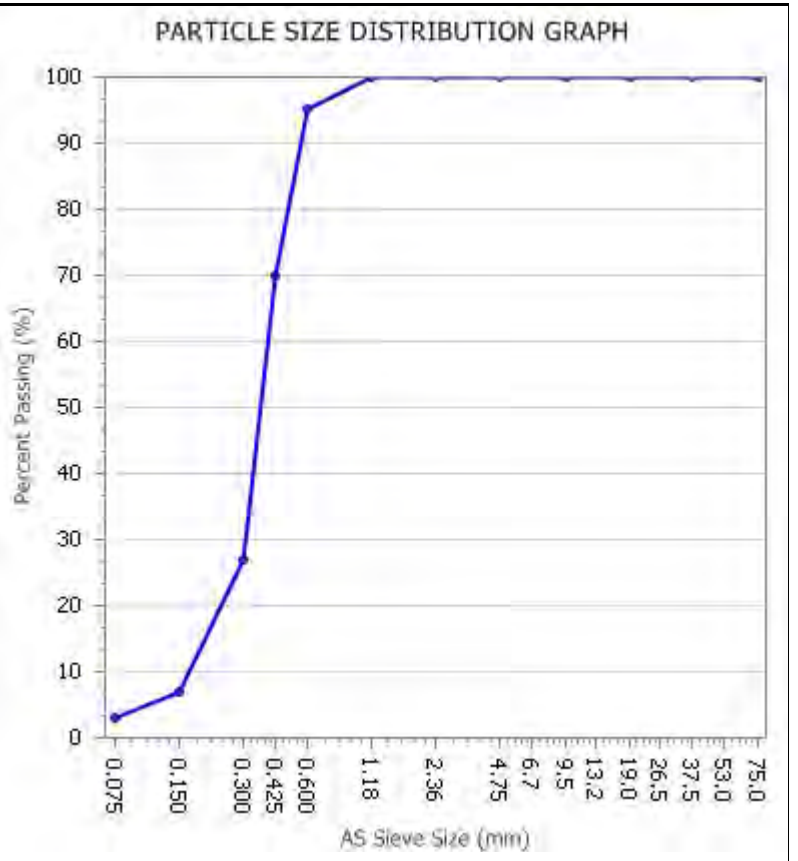
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1800-1 Project Number: 5029/P/256 Lot Number: A10 Sample 4 Depth 0.8m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6510 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		95	
0.425		70	
0.300		27	
0.150		7	
0.075		3	




Remarks



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Accreditation Number: 5029



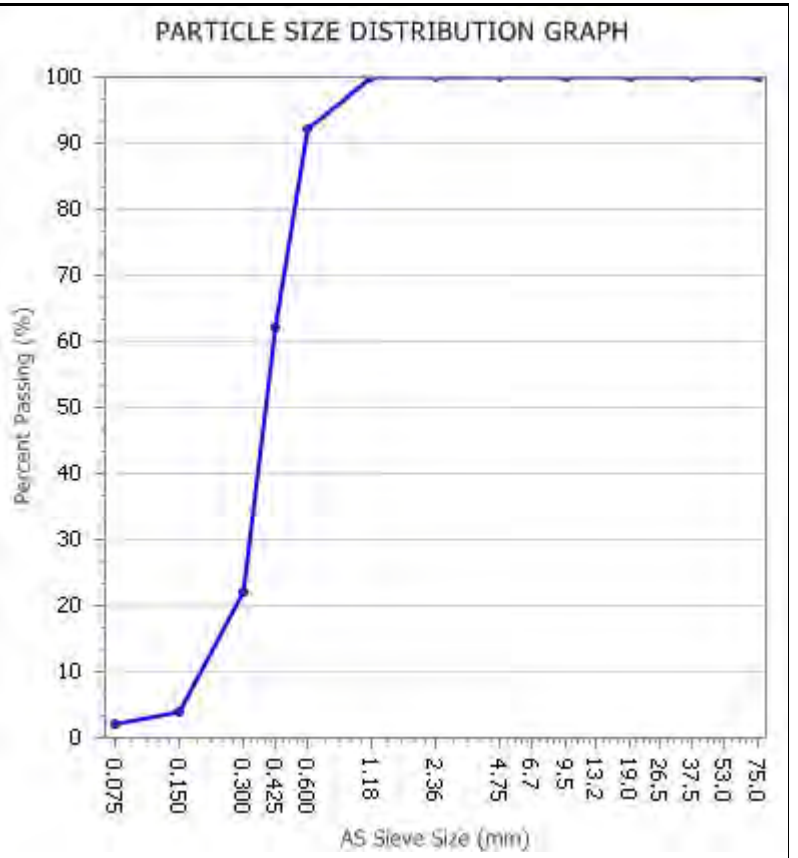
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1801-1 Project Number: 5029/P/256 Lot Number: A10 Sample 5 Depth 1.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6511 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		92	
0.425		62	
0.300		22	
0.150		4	
0.075		2	




Remarks



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Accreditation Number: 5029



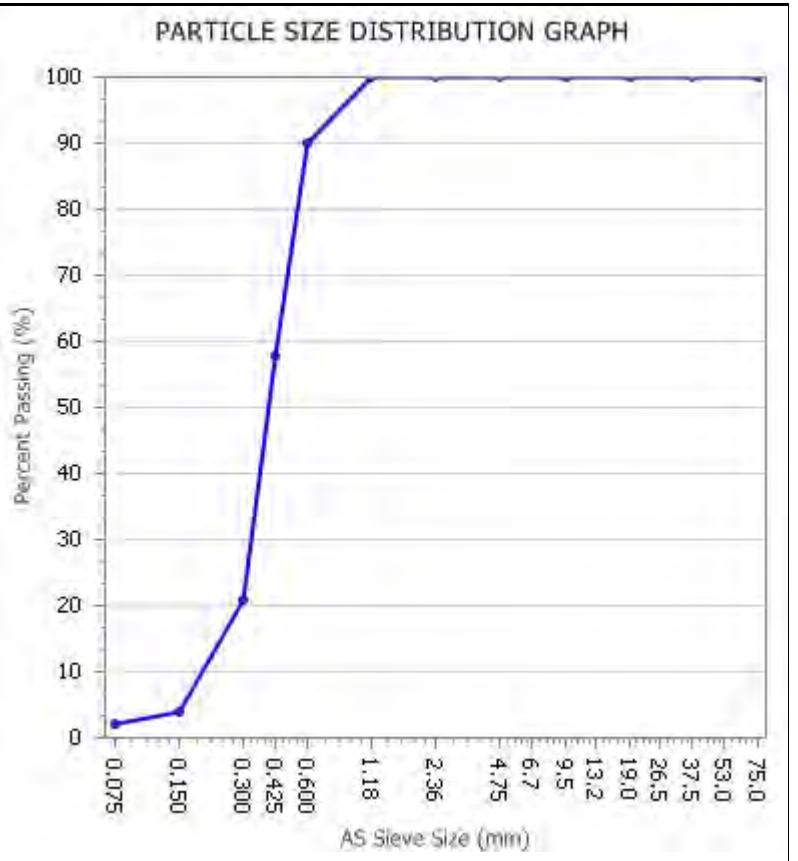
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1802-1 Project Number: 5029/P/256 Lot Number: A10 Sample 6 Depth 1.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6512 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		90	
0.425		58	
0.300		21	
0.150		4	
0.075		2	




Remarks



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.  
 Accredited for compliance with ISO/IEC 17025

Accreditation Number: 5029



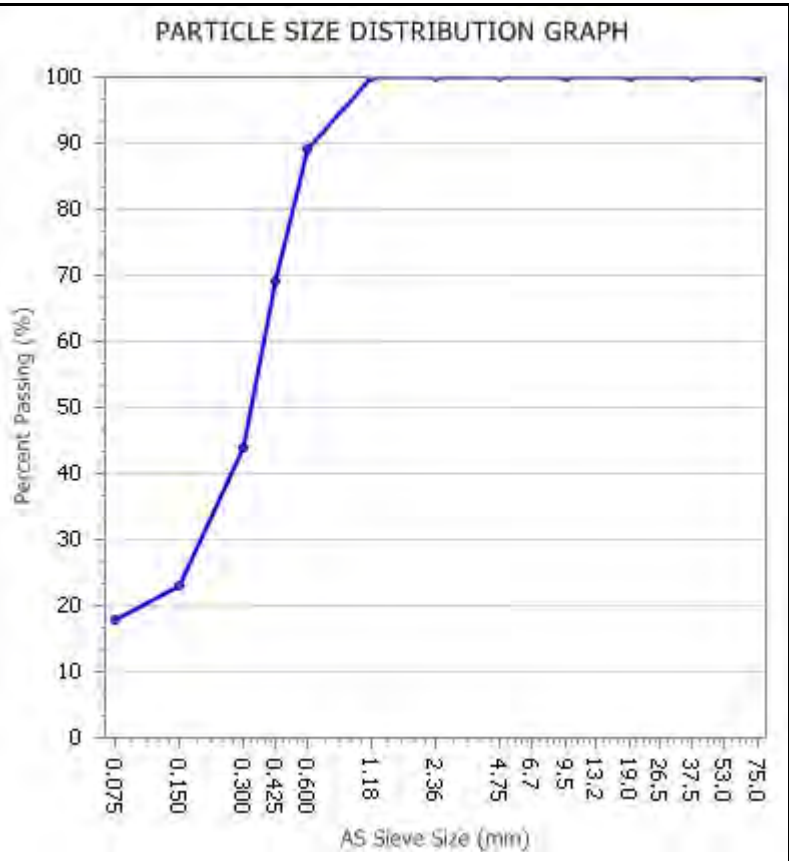
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

# PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1834-1 Project Number: 5029/P/256 Lot Number: A09 Sample 10 Depth 2.3m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 07/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6504 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		89	
0.425		69	
0.300		44	
0.150		23	
0.075		18	




Remarks



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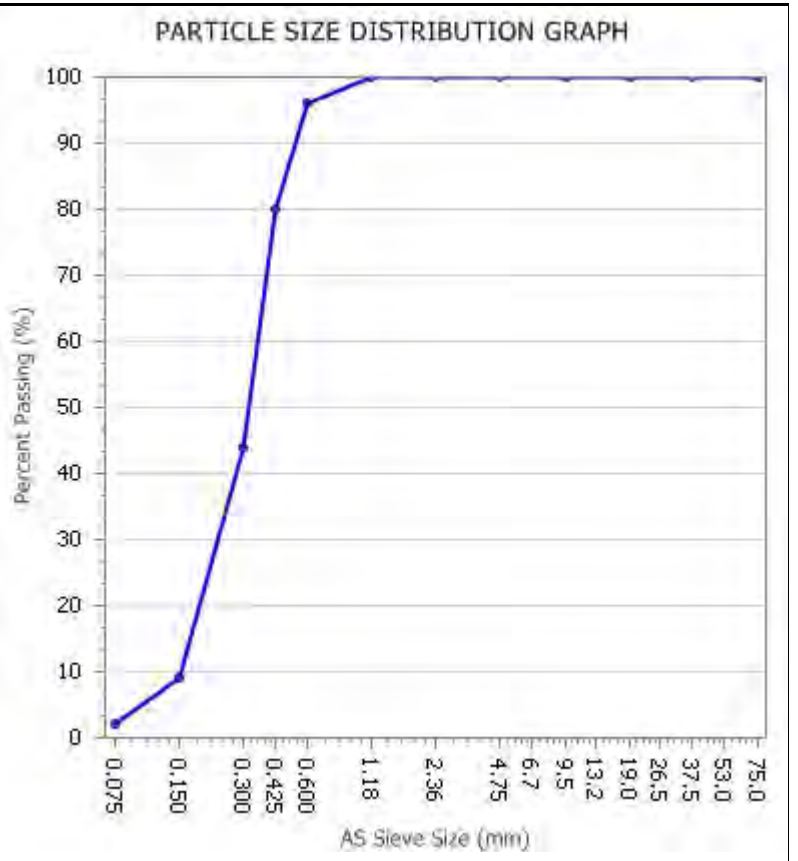
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1803-1 Project Number: 5029/P/256 Lot Number: A11 Sample 1 Depth 0.0m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6513 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		96	
0.425		80	
0.300		44	
0.150		9	
0.075		2	




Remarks



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Accreditation Number: 5029



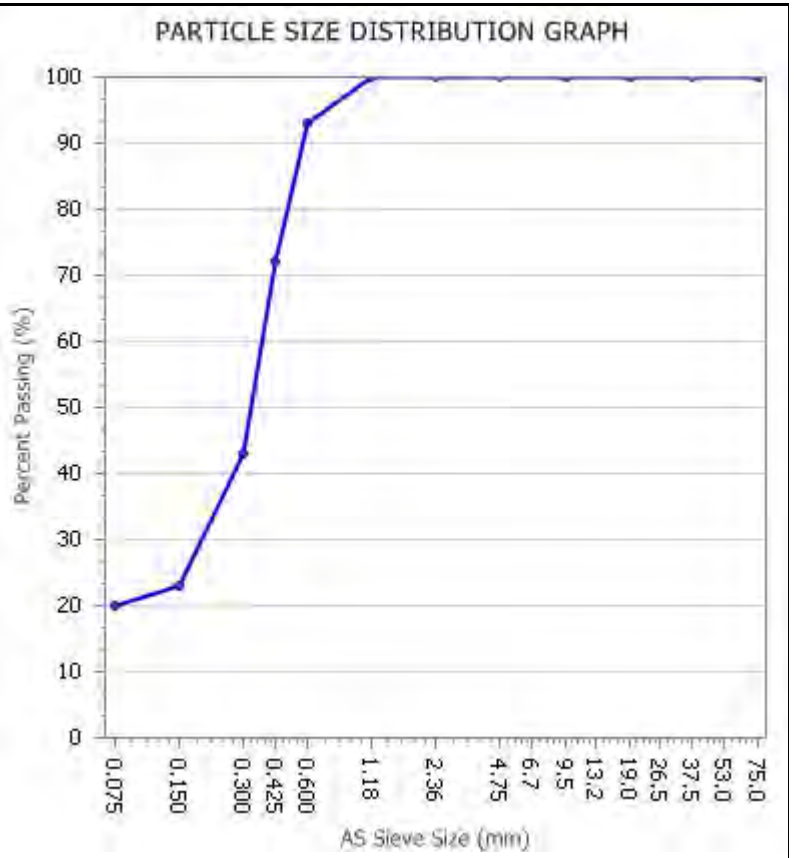
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

## PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1804-1 Project Number: 5029/P/256 Lot Number: A11 Sample 2 Depth 0.2m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 05/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6514 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Grey Silty SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		100	
0.600		93	
0.425		72	
0.300		43	
0.150		23	
0.075		20	




Remarks



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Accreditation Number: 5029



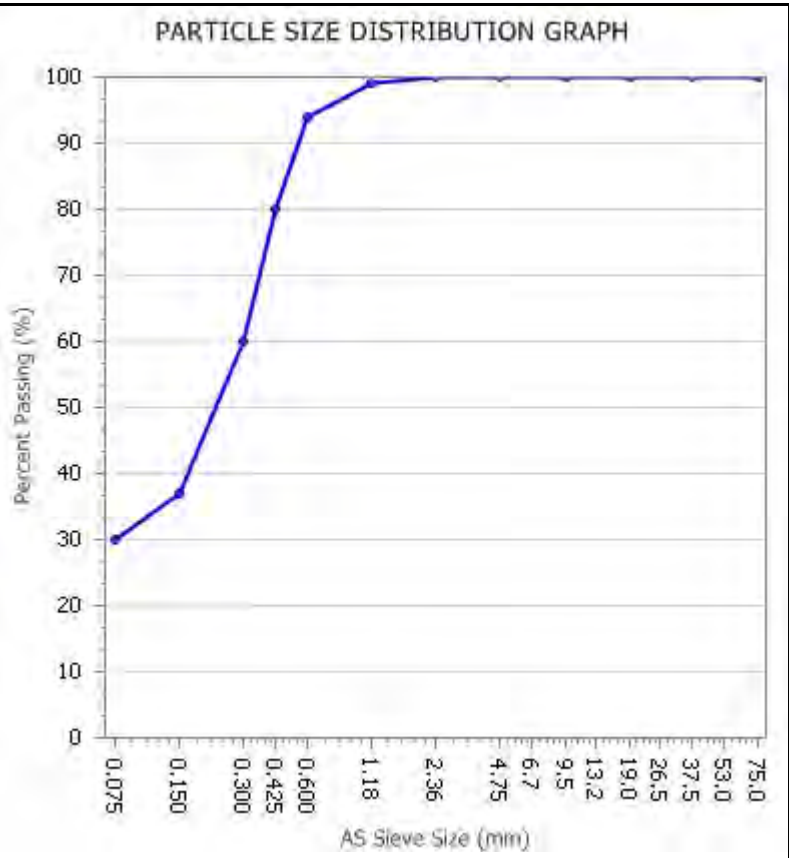
Approved Signatory: Janine Fischer  
 Form ID: W9Rep Rev 2

# PARTICLE SIZE DISTRIBUTION REPORT


Client: GHD Pty Ltd Client Address: GHD House, 239 Adelaide Terrace, PERTH Project: Keane Road Pressure Main Location: Perth Component: Area Description:	Report Number: 5029/R/1839-1 Project Number: 5029/P/256 Lot Number: A11 Sample 3 Depth 0.5m Internal Test Request: 5029/T/1144 Client Reference/s: 61/32259 Report Date / Page: 07/09/2015 <span style="float: right;">Page 1 of 1</span>
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Test Procedures: AS1289.3.6.1 Sample Number: 5029/S/6515 Sampling Method: Tested As Received Date Sampled: 11/08/2015 Sampled By: Client Sampled Date Tested: 25/08/2015 Material Source: -	Sample Location Test Request Area Material Type: Yellow SAND
---	---

AS Sieve (mm)	Specification Minimum	Percent Passing (%)	Specification Maximum
75.0		100	
37.5		100	
19.0		100	
9.5		100	
4.75		100	
2.36		100	
1.18		99	
0.600		94	
0.425		80	
0.300		60	
0.150		37	
0.075		30	




Remarks



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 Form ID: W9Rep Rev 2