



soil testing specialist

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Hilf Density Ratio Report

Client :	Coops Drainage & Civil	Report Number:	TT606 - 3
Address :	243A Burnside Road, Stapylton , QLD, 4207	Report Date :	2/10/2020
Project Name :	Residential Development	Order Number :	
Project Number :	TT606	Test Method :	AS1289.5.7.1
Location:	2 Jarvis Road , Waterford Qld 4133	Page 1 of 8	

Sample Number :	20-642	20-643	20-644	20-645
Test Number :	1	2	3	4
Sampling Method :	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)
Date Sampled :	3/09/2020	3/09/2020	3/09/2020	4/09/2020
Date Tested :	5/09/2020	5/09/2020	5/09/2020	4/09/2020
Material Type :	General Fill	General Fill	General Fill	General Fill
Material Source :	On Site	On Site	On Site	On Site
Lot Number :				
Sample Location :	Lot 28 10m from East boundary 15m from North boundary 2.7m BFL	Harvard Road Chainage 80 On CL 2.7m BFL	Lot 27 5m from East Boundary 10m from North Boundary 2.7m BFL	Harvard Road Chainage: 75 10m Left CL 2.5m BFL
Test Depth (mm) :	150	150	150	150
Layer Depth (mm) :				
Maximum Size (mm) :	37.5	37.5	37.5	37.5
Oversize Wet (%) :	0	0	0	0
Oversize Dry (%) :				
Oversize Density (t/m ³) :				
Field Moisture Content (%) :	13.7	13.6	13.4	14.2
Hilf MDR Number :	20-642	20-643	20-644	20-645
Hilf MDR Method :	No	No	No	No
Compactive Effort :	Standard	Standard	Standard	Standard
Field Density Method :	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1
Moisture Method :	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1
Moisture Ratio (%) :	97	95	95	97
Field Wet Density (t/m ³) :	2.098	2.090	2.069	1.969
Optimum Moisture Content (%) :	14.200	14.300	14.100	14.700
Moisture Variation :	0.5	0.7	0.7	0.5
Peak Converted Wet Density (t/m ³) :	2.091	2.081	2.046	1.944
Hilf Density Ratio (%) :	100.5	100.5	101.0	101.5
Minimum Specification :	95	95	95	95
Moisture Specification :	OMC+/-2%	OMC+/-2%	OMC+/-2%	OMC+/-2%
Site Selection :	Technician L1	Technician L1	Technician L1	
Soil Description :				
Remarks :	-			



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Project Name :	Residential Development	Order Number :	
Project Number :	TT606	Test Method :	AS1289.5.7.1
Location:	2 Jarvis Road , Waterford Qld 4133	Page 2 of 8	

Sample Number :	20-646	20-647	20-648	20-649
Test Number :	5	6	7	8
Sampling Method :	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)
Date Sampled :	4/09/2020	4/09/2020	10/09/2020	10/09/2020
Date Tested :	4/09/2020	4/09/2020	10/09/2020	10/09/2020
Material Type :	General Fill	General Fill	General Fill	General Fill
Material Source :	On Site	On Site	On Site	On Site
Lot Number :				
Sample Location :	Lot 27 10m from East Boundary 12m from North Boundary 2.4m BFL	Lot 28 5m from East Boundary 13m from North Boundary 2.4m BFL	Harvard Road Chainage: 55 10m Left CL 2.0m BFL	Lot 28 6m from East Boundary 10m from North Boundary 2.0m BFL
Test Depth (mm) :	150	150	150	150
Layer Depth (mm) :				
Maximum Size (mm) :	37.5	37.5	37.5	37.5
Oversize Wet (%) :	0	0	0	0
Oversize Dry (%) :				
Oversize Density (t/m ³) :				
Field Moisture Content (%) :	13.6	13.2	15.6	16.4
Hilf MDR Number :	20-646	20-647	20-648	20-649
Hilf MDR Method :	No	No	No	No
Compactive Effort :	Standard	Standard	Standard	Standard
Field Density Method :	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1
Moisture Method :	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1
Moisture Ratio (%) :	94.5	99	96	98
Field Wet Density (t/m ³) :	2.101	2.095	2.010	2.018
Optimum Moisture Content (%) :	14.400	13.400	16.300	16.800
Moisture Variation :	0.8	0.1	0.7	0.4
Peak Converted Wet Density (t/m ³) :	2.085	2.068	1.988	1.984
Hilf Density Ratio (%) :	101.0	101.5	101.0	101.5
Minimum Specification :	95	95	95	95
Moisture Specification :	OMC+/-2%	OMC+/-2%	OMC+/-2%	OMC+/-2%
Site Selection :				
Soil Description :				
Remarks :	-			



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Address :	243A Burnside Road, Stapylton , QLD, 4207	Report Date :	2/10/2020
Project Name :	Residential Development	Order Number :	
Project Number :	TT606	Test Method :	AS1289.5.7.1
Location:	2 Jarvis Road , Waterford Qld 4133	Page 3 of 8	

Sample Number :	20-650	20-651	20-652	20-653
Test Number :	9	10	11	12
Sampling Method :	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)
Date Sampled :	10/09/2020	16/09/2020	16/09/2020	16/09/2020
Date Tested :	10/09/2020	16/09/2020	16/09/2020	16/09/2020
Material Type :	General Fill	General Fill	General Fill	General Fill
Material Source :	On Site	On Site	On Site	On Site
Lot Number :				
Sample Location :	Lot 27 5m from East Boundary 13m from North Boundary 2.0m BFL	Harvard Road Chainage: 50 13m Left CL 1.6m BFL	Lot 27 10m from East Boundary 15m from North Boundary 1.6m BFL	Lot 28 5m from East Boundary 15m from North Boundary 1.6m BFL
Test Depth (mm) :	150	150	150	150
Layer Depth (mm) :				
Maximum Size (mm) :	37.5	37.5	37.5	37.5
Oversize Wet (%) :	0	0	0	0
Oversize Dry (%) :				
Oversize Density (t/m ³) :				
Field Moisture Content (%) :	9.6	13.6	14.0	14.1
Hilf MDR Number :	20-650	20-651	20-652	20-653
Hilf MDR Method :	No	No	No	No
Compactive Effort :	Standard	Standard	Standard	Standard
Field Density Method :	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1
Moisture Method :	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1
Moisture Ratio (%) :	92.5	95	95.5	93
Field Wet Density (t/m ³) :	2.085	2.100	2.097	1.970
Optimum Moisture Content (%) :	10.400	14.300	14.700	15.200
Moisture Variation :	0.8	0.7	0.7	1.1
Peak Converted Wet Density (t/m ³) :	2.052	2.084	2.085	1.944
Hilf Density Ratio (%) :	101.5	101.0	100.5	101.5
Minimum Specification :	95	95	95	95
Moisture Specification :	OMC+/-2%	OMC+/-2%	OMC+/-2%	OMC+/-2%
Site Selection :				
Soil Description :				
Remarks :	-			



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Address :	243A Burnside Road, Stapylton , QLD, 4207	Report Date :	2/10/2020
Project Name :	Residential Development	Order Number :	
Project Number :	TT606	Test Method :	AS1289.5.7.1
Location:	2 Jarvis Road , Waterford Qld 4133	Page 4 of 8	

Sample Number :	20-654	20-655	20-656	20-657
Test Number :	13	14	15	16
Sampling Method :	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)
Date Sampled :	17/09/2020	17/09/2020	17/09/2020	18/09/2020
Date Tested :	17/09/2020	17/09/2020	17/09/2020	18/09/2020
Material Type :	General Fill	General Fill	General Fill	General Fill
Material Source :	On Site	On Site	On Site	On Site
Lot Number :				
Sample Location :	Harvard Road Chainage: 80 5m Left CL 1.2m BFL	Lot 29 8m from East Boundary 10m from North Boundary 1.2m BFL	Lot 27 5m from East Boundary 6m from North Boundary 1.2m BFL	Lot 32 5m from East Boundary 12m from North Boundary 0.7m BFL
Test Depth (mm) :	150	150	150	150
Layer Depth (mm) :				
Maximum Size (mm) :	37.5	37.5	37.5	37.5
Oversize Wet (%) :	0	0	0	0
Oversize Dry (%) :				
Oversize Density (t/m ³) :				
Field Moisture Content (%) :	17.2	14.5	13.1	14.0
Hilf MDR Number :	20-654	20-655	20-656	20-657
Hilf MDR Method :	No	No	No	No
Compactive Effort :	Standard	Standard	Standard	Standard
Field Density Method :	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1
Moisture Method :	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1
Moisture Ratio (%) :	98	97	90.5	97
Field Wet Density (t/m ³) :	2.005	2.070	2.055	2.102
Optimum Moisture Content (%) :	17.500	14.900	14.500	14.500
Moisture Variation :	0.4	0.5	1.4	0.5
Peak Converted Wet Density (t/m ³) :	1.986	2.048	2.037	2.087
Hilf Density Ratio (%) :	101.0	101.0	101.0	100.5
Minimum Specification :	95	95	95	95
Moisture Specification :	OMC+/-2%	OMC+/-2%	OMC+/-2%	OMC+/-2%
Site Selection :				
Soil Description :				
Remarks :	-			

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Address :	243A Burnside Road, Stapylton , QLD, 4207	Report Date :	2/10/2020
Project Name :	Residential Development	Order Number :	
Project Number :	TT606	Test Method :	AS1289.5.7.1
Location:	2 Jarvis Road , Waterford Qld 4133	Page 5 of 8	

Sample Number :	20-658	20-659	20-660	20-661
Test Number :	17	18	19	20
Sampling Method :	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)
Date Sampled :	18/09/2020	18/09/2020	22/09/2020	22/09/2020
Date Tested :	18/09/2020	18/09/2020	22/09/2020	22/09/2020
Material Type :	General Fill	General Fill	General Fill	General Fill
Material Source :	On Site	On Site	On Site	On Site
Lot Number :				
Sample Location :	Lot 29 7m from East Boundary 18m from North Boundary 0.7m BFL	Harvard Road Chainage: 70 7m Left CL 0.8m BFL	Lot 27 4m from East Boundary 12m from North Boundary 0.2m BFL	Lot 29 10m from East Boundary 10m from North Boundary 0.2m BFL
Test Depth (mm) :	150	150	150	150
Layer Depth (mm) :				
Maximum Size (mm) :	37.5	37.5	37.5	37.5
Oversize Wet (%) :	0	0	0	0
Oversize Dry (%) :				
Oversize Density (t/m ³) :				
Field Moisture Content (%) :	14.4	13.6	12.9	14.0
Hilf MDR Number :	20-658	20-659	20-660	20-661
Hilf MDR Method :	No	No	No	No
Compactive Effort :	Standard	Standard	Standard	Standard
Field Density Method :	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1
Moisture Method :	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1
Moisture Ratio (%) :	98.5	95	96.5	94.5
Field Wet Density (t/m ³) :	2.025	2.106	2.085	2.101
Optimum Moisture Content (%) :	14.600	14.300	13.300	14.800
Moisture Variation :	0.2	0.7	0.5	0.8
Peak Converted Wet Density (t/m ³) :	1.993	2.084	2.057	2.087
Hilf Density Ratio (%) :	101.5	101.0	101.5	100.5
Minimum Specification :	95	95	95	95
Moisture Specification :	OMC+/-2%	OMC+/-2%	OMC+/-2%	OMC+/-2%
Site Selection :				
Soil Description :				
Remarks :	-			



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Project Name :	Residential Development	Order Number :	
Project Number :	TT606	Test Method :	AS1289.5.7.1
Location:	2 Jarvis Road , Waterford Qld 4133	Page 6 of 8	

Sample Number :	20-662	20-663	20-664	20-665
Test Number :	21	22	23	24
Sampling Method :	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)
Date Sampled :	22/09/2020	23/09/2020	23/09/2020	23/09/2020
Date Tested :	22/09/2020	23/09/2020	23/09/2020	23/09/2020
Material Type :	General Fill	General Fill	General Fill	General Fill
Material Source :	On Site	On Site	On Site	On Site
Lot Number :				
Sample Location :	Lot 32 6m from East Boundary 13m from North Boundary 0.3m BFL	Boundary Lots 1/2 15m from East Boundary FL	Oxford Street Chainage:25 5m Left CL FL	Lot 24 9m from East Boundary 15m from North Boundary FL
Test Depth (mm) :	150	150	150	150
Layer Depth (mm) :				
Maximum Size (mm) :	37.5	37.5	37.5	37.5
Oversize Wet (%) :	0	0	0	0
Oversize Dry (%) :				
Oversize Density (t/m ³) :				
Field Moisture Content (%) :	15.7	16.9	13.3	13.3
Hilf MDR Number :	20-662	20-663	20-664	20-665
Hilf MDR Method :	No	No	No	No
Compactive Effort :	Standard	Standard	Standard	Standard
Field Density Method :	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1
Moisture Method :	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1
Moisture Ratio (%) :	96	97.5	93.5	96.5
Field Wet Density (t/m ³) :	2.011	2.000	2.097	2.090
Optimum Moisture Content (%) :	16.400	17.400	14.200	13.800
Moisture Variation :	0.7	0.5	0.9	0.5
Peak Converted Wet Density (t/m ³) :	1.985	1.979	2.079	2.069
Hilf Density Ratio (%) :	101.5	101.0	101.0	101.0
Minimum Specification :	95	95	95	95
Moisture Specification :	OMC+/-2%	OMC+/-2%	OMC+/-2%	OMC+/-2%
Site Selection :				
Soil Description :				
Remarks :	-			



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Address :	243A Burnside Road, Stapylton , QLD, 4207	Report Date :	2/10/2020
Project Name :	Residential Development	Order Number :	
Project Number :	TT606	Test Method :	AS1289.5.7.1
Location:	2 Jarvis Road , Waterford Qld 4133		Page 7 of 8

Sample Number :	20-666	20-667	20-668	20-669
Test Number :	25	26	27	28
Sampling Method :	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)
Date Sampled :	24/09/2020	24/09/2020	24/09/2020	25/09/2020
Date Tested :	24/09/2020	24/09/2020	24/09/2020	25/09/2020
Material Type :	General Fill	General Fill	General Fill	General Fill
Material Source :	On Site	On Site	On Site	On Site
Lot Number :				
Sample Location :	Lot 22 15m from East Boundary 6m from North Boundary FL	Lot 34 20m from East Boundary 8m from North Boundary FL	Boundary Lots 30/31 10m from North Boundary FL	Lot 21 8m from East boundary 18m from North Boundary FL
Test Depth (mm) :	150	150	150	150
Layer Depth (mm) :				
Maximum Size (mm) :	37.5	37.5	37.5	37.5
Oversize Wet (%) :	0	0	0	0
Oversize Dry (%) :				
Oversize Density (t/m ³) :				
Field Moisture Content (%) :	16.7	12.6	13.1	13.0
Hilf MDR Number :	20-666	20-667	20-668	20-669
Hilf MDR Method :	No	No	No	No
Compactive Effort :	Standard	Standard	Standard	Standard
Field Density Method :	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1
Moisture Method :	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1
Moisture Ratio (%) :	96.5	92.5	95	90.5
Field Wet Density (t/m ³) :	2.035	2.050	2.071	2.085
Optimum Moisture Content (%) :	17.300	13.600	13.700	14.300
Moisture Variation :	0.6	1.0	0.7	1.4
Peak Converted Wet Density (t/m ³) :	2.017	2.039	2.045	2.061
Hilf Density Ratio (%) :	101.0	100.5	101.5	101.0
Minimum Specification :	95	95	95	95
Moisture Specification :	OMC+/-2%	OMC+/-2%	OMC+/-2%	OMC+/-2%
Site Selection :				
Soil Description :				
Remarks :	-			



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Project Name :	Residential Development	Order Number :	
Project Number :	TT606	Test Method :	AS1289.5.7.1
Location:	2 Jarvis Road , Waterford Qld 4133	Page 8 of 8	

Sample Number :	20-670	20-671	20-672	20-673
Test Number :	29	30	31	32
Sampling Method :	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)	AS 1289 1.2.1 - 6.4 (b)
Date Sampled :	25/09/2020	25/09/2020	25/09/2020	25/09/2020
Date Tested :	25/09/2020	25/09/2020	25/09/2020	25/09/2020
Material Type :	General Fill	General Fill	General Fill	General Fill
Material Source :	On Site	On Site	On Site	On Site
Lot Number :				
Sample Location :	Lot 18 15m from East boundary 7m from North Boundary FL	Lot 19 15m from East boundary 5m from North Boundary FL	Lot 26 10m from East boundary 3m from North Boundary FL	Oxford Street chainage: 90 7m Right CL FL
Test Depth (mm) :	150	150	150	150
Layer Depth (mm) :				
Maximum Size (mm) :	37.5	37.5	37.5	37.5
Oversize Wet (%) :	0	0	0	0
Oversize Dry (%) :				
Oversize Density (t/m ³) :				
Field Moisture Content (%) :	14.5	14.0	12.9	15.7
Hilf MDR Number :	20-670	20-671	20-672	20-673
Hilf MDR Method :	No	No	No	No
Compactive Effort :	Standard	Standard	Standard	Standard
Field Density Method :	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1	AS1289.5.8.1
Moisture Method :	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1	AS1289.2.1.1
Moisture Ratio (%) :	95.5	94	96	93
Field Wet Density (t/m ³) :	1.985	2.125	2.088	1.999
Optimum Moisture Content (%) :	15.100	14.900	13.400	16.800
Moisture Variation :	0.7	0.9	0.6	1.2
Peak Converted Wet Density (t/m ³) :	1.953	2.101	2.058	1.973
Hilf Density Ratio (%) :	101.5	101.0	101.5	101.5
Minimum Specification :	95	95	95	95
Moisture Specification :	OMC+/-2%	OMC+/-2%	OMC+/-2%	OMC+/-2%
Site Selection :				
Soil Description :				
Remarks :	-			

	<p>This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.</p>	<p>APPROVED SIGNATORY</p> <p>Jamie Jackson - Manager NATA Accreditation Number 15394</p>
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