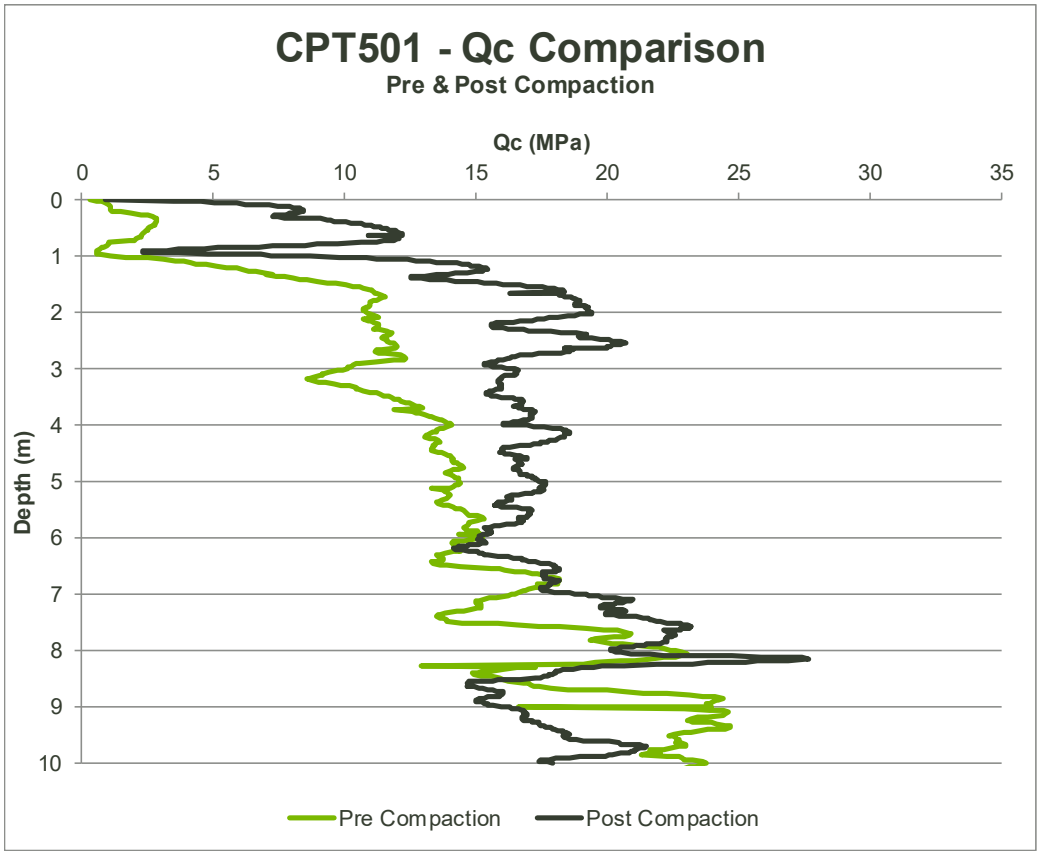
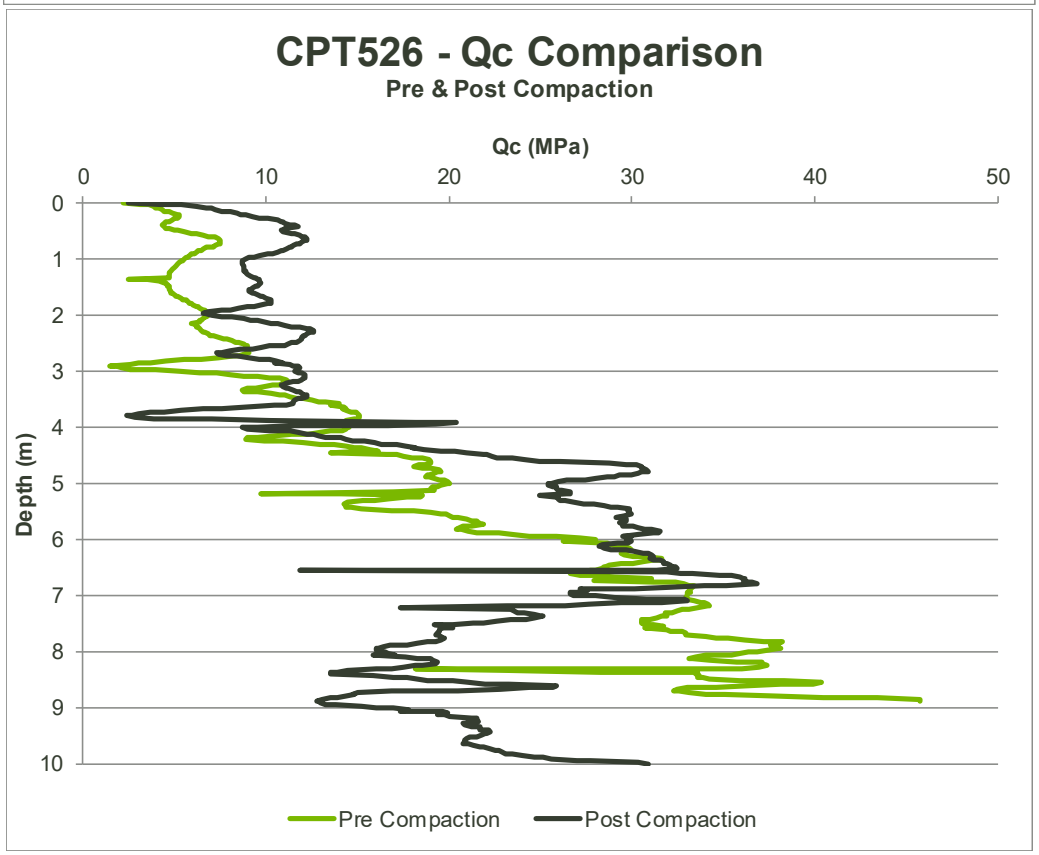
Appendix E
Qc Comparisons





aurecon
Level 2, Iwikau Building
93 Cambridge Terrace
Christchurch
New Zealand

Prestons Ground Improvement

Stage Q1-3 & R1 Pre & Post Compaction

PRELIMINARY

Date: 22/01/2019

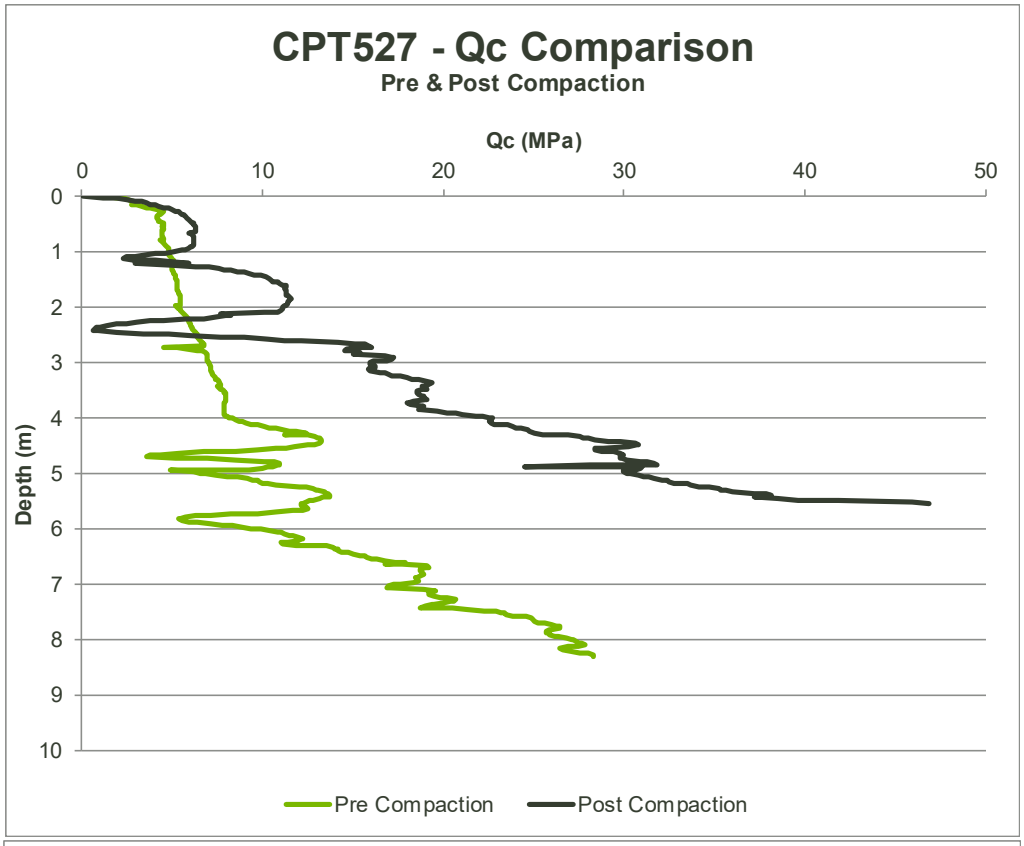
Producer: K. Foote

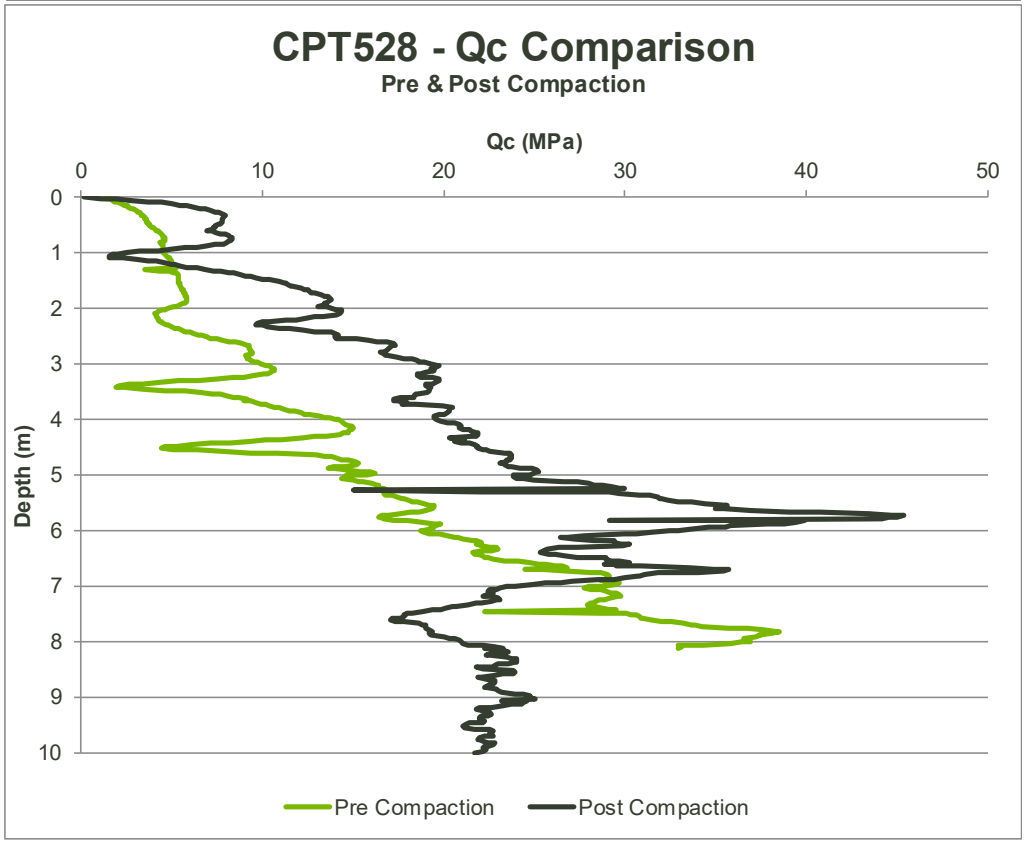
Page 1

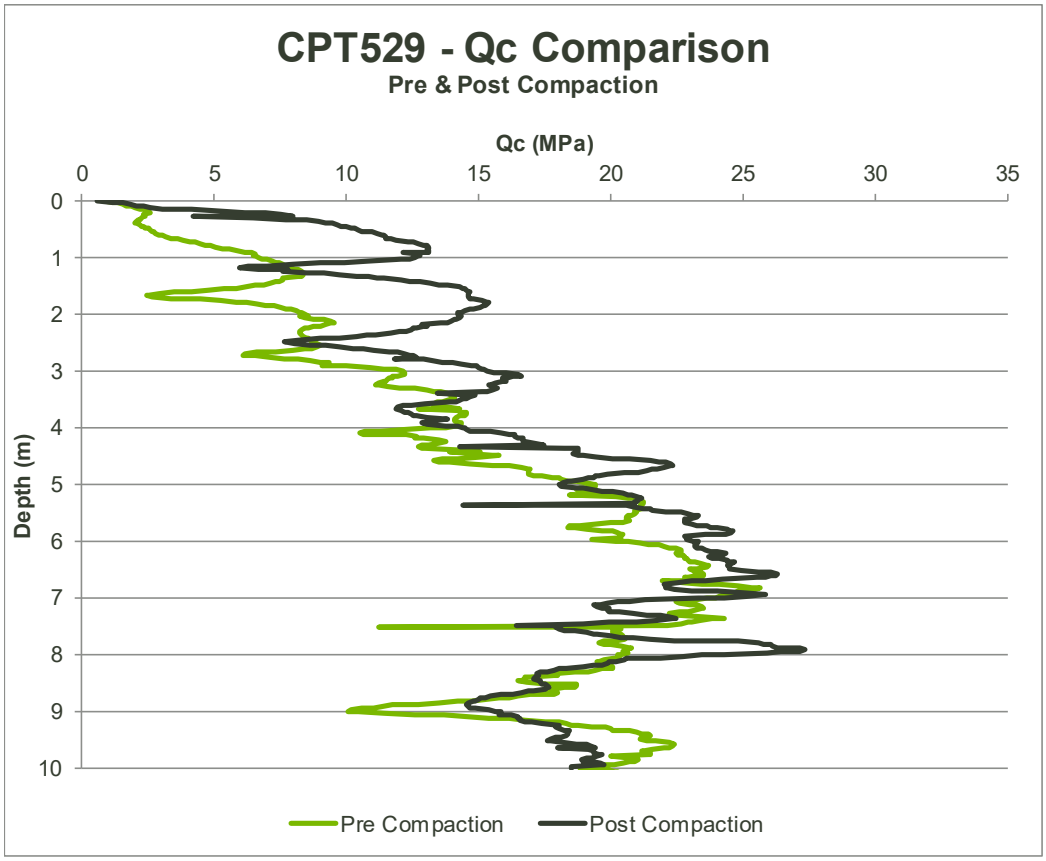
Scale: NTS

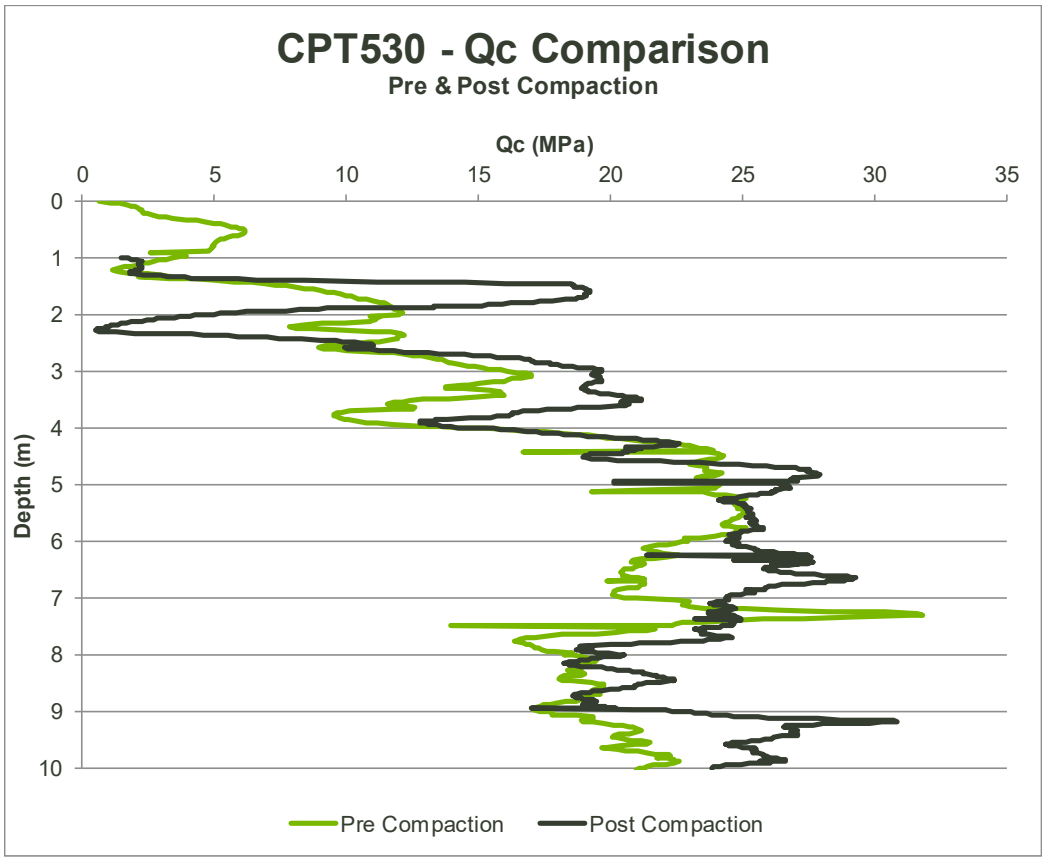
Rev 0

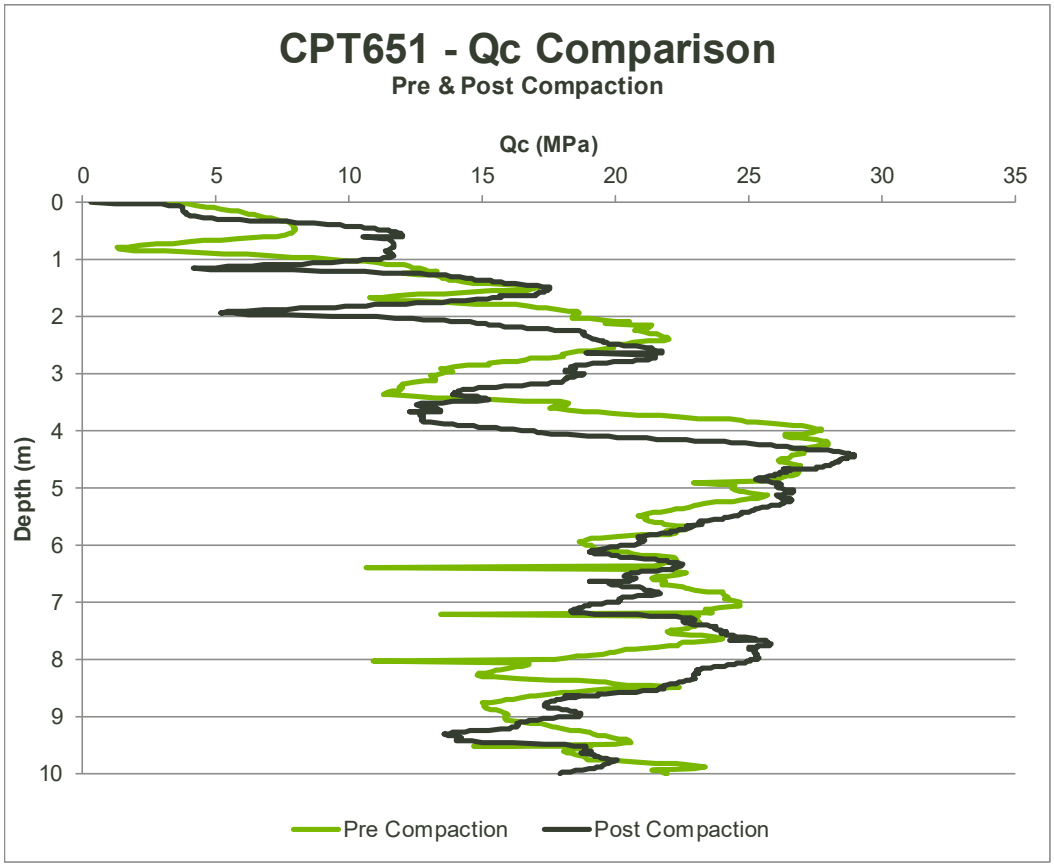
Project#:: 235361

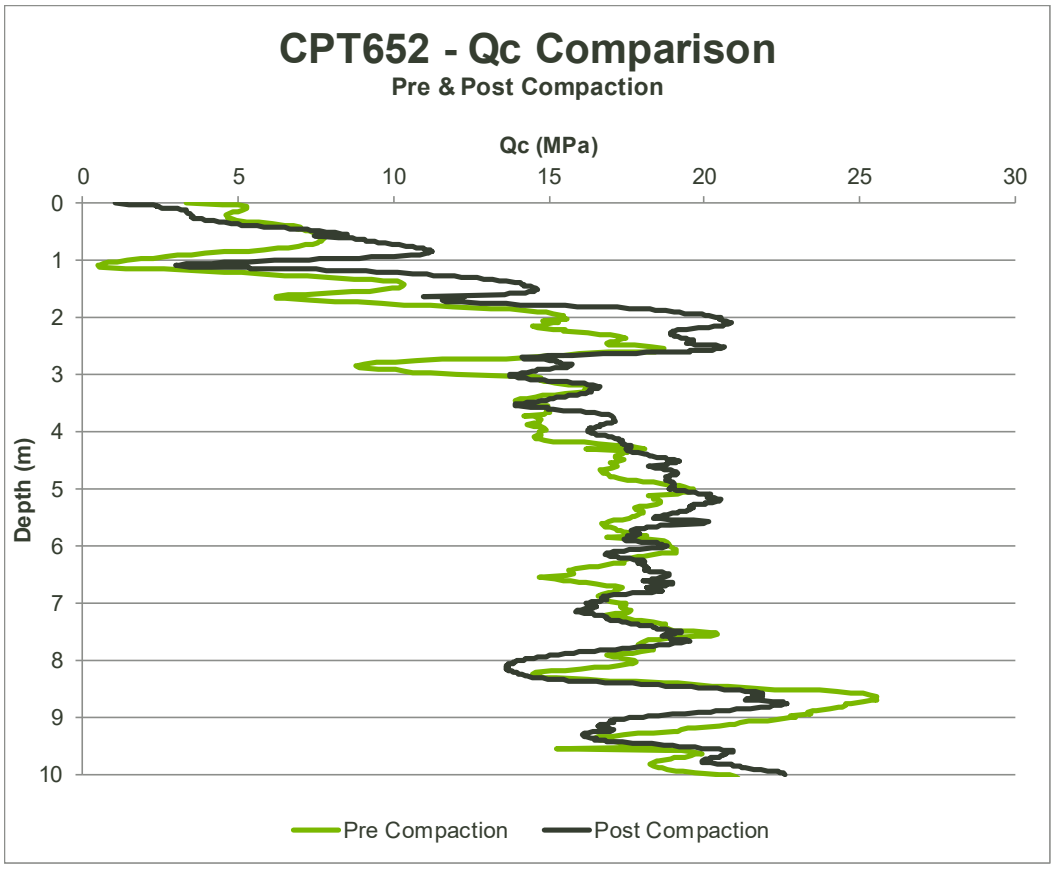

CPT527 - Qc Comparison
Pre & Post Compaction
Qc (MPa)
0
10
20
30
40
50
Depth (m)
0
1
2
3
4
5
6
7
8
9
10
Pre Compaction
Post Compaction


CPT528 - Qc Comparison
Pre & Post Compaction
Qc (MPa)
0
10
20
30
40
50
Depth (m)
0
1
2
3
4
5
6
7
8
9
10
Pre Compaction
Post Compaction


CPT529 - Qc Comparison
Pre & Post Compaction
Qc (MPa)
0
5
10
15
20
25
30
35
Depth (m)
0
1
2
3
4
5
6
7
8
9
10
Pre Compaction
Post Compaction


CPT530 - Qc Comparison
Pre & Post Compaction
Qc (MPa)
0
5
10
15
20
25
30
35
Depth (m)
0
1
2
3
4
5
6
7
8
9
10
Pre Compaction
Post Compaction


CPT651 - Qc Comparison
Pre & Post Compaction
Qc (MPa)
0
5
10
15
20
25
30
35
Depth (m)
0
1
2
3
4
5
6
7
8
9
10
Pre Compaction
Post Compaction


CPT652 - Qc Comparison
Pre & Post Compaction
Qc (MPa)
0
5
10
15
20
25
30
Depth (m)
0
1
2
3
4
5
6
7
8
9
10
Pre Compaction
Post Compaction

Appendix F
Compaction Curves

Canterbury Laboratory

24 Miners Road, Templeton, Christchurch
PO Box 16-064, Christchurch 8441
Telephone: +64 3 349 9142
Facsimile: +64 3 349 9143
www.fultonhogan.com
0800 LABORATORY

Maximum Dry Density Report

Report No: MDD:CAN18S-14541
Issue No: 1

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240
NZ

Project: QA Testing - City Care Ltd

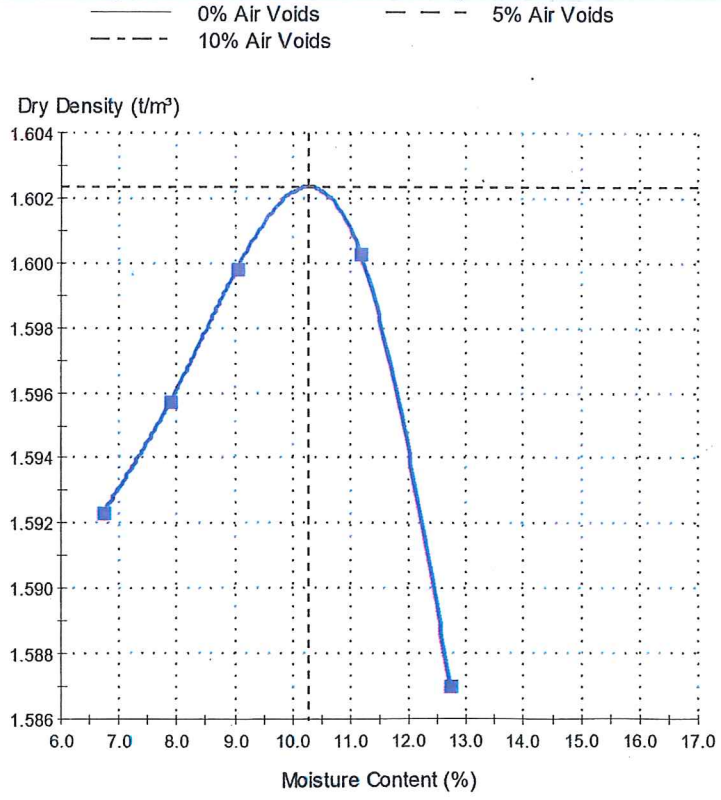
IANZ ACCREDITED LABORATORY

Approved Signatory: Max Burford (Supervisor)
IANZ Accreditation No:200
Date of Issue: 21/06/2018

Sample Details

Sample ID:	CAN18S-14541	**Client Sample ID:**	1208/18
Material:	Sand	**Sample Source:**	Miscellaneous Material Source
Site/Sampled From:	Lot 264 (mix) (sample 1)	**Date Sampled:**	13/06/2018
Specification:	Vibrating Hammer Compaction Test	**Sampled By:**	Advised - See Comments
Sampling Method:	Not Advised - Not Accredited	**Date Tested:**	19/06/2018
Technician:	Johny Slade	**Sampling Endorsed?:**	No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986

Maximum Dry Density (t/m³):	**1.60**
Optimum Moisture Content (%):	**10**
Solid Density (t/m³):	2.68 assumed
Fraction Tested Passes (mm):	37.5
Material Removed (%):	0
Sample History:	Natural

275 2.79? 1660 AW

Comments

Sampled by Clive

Canterbury Laboratory

24 Miners Road, Templeton, Christchurch
PO Box 16-064, Christchurch 8441
Telephone: +64 3 349 9142
Facsimile: +64 3 349 9143
www.fultonhogan.com
0800 LABORATORY

Maximum Dry Density Report

Report No: MDD:CAN18S-14543
Issue No: 1

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240
NZ

Project: QA Testing - City Care Ltd

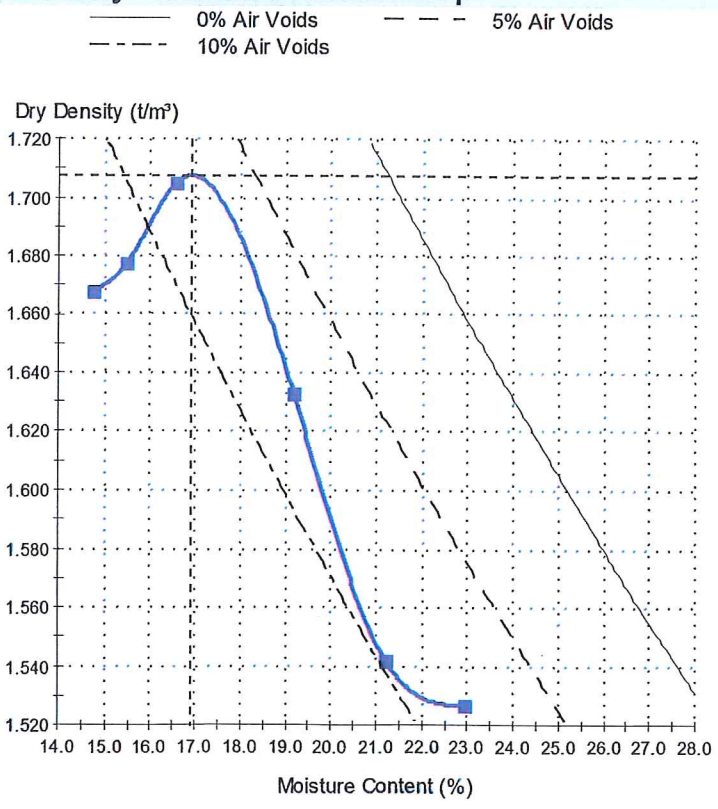
IANZ ACCREDITED LABORATORY

Approved Signatory: Max Burford (Supervisor)
IANZ Accreditation No:200
Date of Issue: 21/06/2018

Sample Details

Sample ID:	CAN18S-14543	**Client Sample ID:**	1210/18
Material:	Sand	**Sample Source:**	Miscellaneous Material Source
Site/Sampled From:	Caldwell Bdy (sample 3)	**Date Sampled:**	13/06/2018
Specification:	Vibrating Hammer Compaction Test	**Sampled By:**	Advised - See Comments
Sampling Method:	Not Advised - Not Accredited	**Date Tested:**	19/06/2018
Technician:	Johny Slade	**Sampling Endorsed?:**	No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986

Maximum Dry Density (t/m³):	**1.70**
Optimum Moisture Content (%):	**17**
Solid Density (t/m³):	2.68 assumed
Fraction Tested Passes (mm):	37.5
Material Removed (%):	0
Sample History:	Natural

Comments

Sampled by Clive
Compaction for test points @ 21.2% & 23.2% ceased prior to 3 minutes due to oversaturation causing ejection of fines from sample.

Canterbury Laboratory

24 Miners Road, Templeton, Christchurch
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0800 LABORATORY

Report No: MDD:CAN18S-14542
Issue No: 1

Maximum Dry Density Report

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240
NZ

Project: QA Testing - City Care Ltd

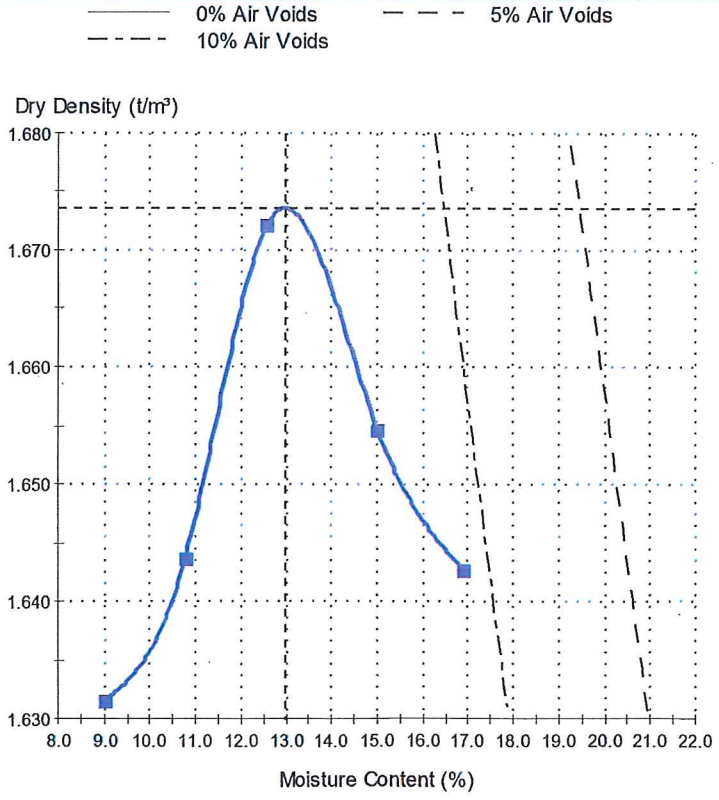
IANZ ACCREDITED LABORATORY

Approved Signatory: Max Burford (Supervisor)
IANZ Accreditation No:200
Date of Issue: 21/06/2018

Sample Details

Sample ID:	CAN18S-14542	**Client Sample ID:**	1209/18
Material:	Sand	**Sample Source:**	Miscellaneous Material Source
Site/Sampled From:	Large stripped stockpile (sample 2)	**Date Sampled:**	13/06/2018
Specification:	Vibrating Hammer Compaction Test	**Sampled By:**	Advised - See Comments
Sampling Method:	Not Advised - Not Accredited	**Date Tested:**	19/06/2018
Technician:	Johny Slade	**Sampling Endorsed?:**	No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986

Maximum Dry Density (t/m³):	**1.68**
Optimum Moisture Content (%):	**13**
Solid Density (t/m³):	2.68 assumed
Fraction Tested Passes (mm):	37.5
Material Removed (%):	0
Sample History:	Natural

Comments

Sampled by Clive
Compaction for test point @ 16.9% ceased prior to 3 minutes due to oversaturation causing ejection of fines from sample.

Canterbury Laboratory

325 Pound Rd, Yaldhurst
PO Box 16-064, Christchurch 8441
Telephone: +64 3 349 9142
Facsimile: +64 3 349 9143
www.fultonhogan.com
0800 LABORATORY

Maximum Dry Density Report

Report No: MDD:CAN14S-05061
Issue No: 1

Client: Toni O'Regan
City Care Limited
PO Box 7669
Sydenham

Christchurch 8240

Project: QA Testing - City Care Ltd

The test (s) reported herein (unless indicated) have been performed in accordance with the laboratory's scope of accreditation. Results only apply to samples as received. This report must be reproduced in full.

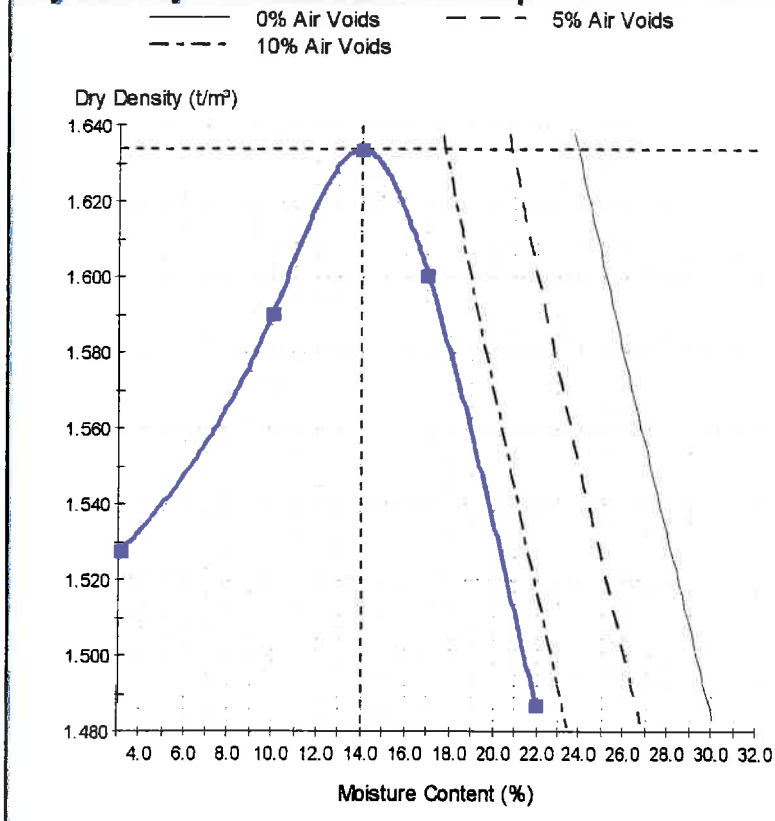
IANZ ACCREDITED LABORATORY

Approved Signatory: Max Burford (Supervisor)
IANZ Accreditation No:200
Date of Issue: 06/03/14

Sample Details

Sample ID:	CAN14S-05061	**Client Sample ID:**	0429/14 Site B
Material:	BEACH SAND	**Sample Source:**	Field Sample [Taken From Site]
Site/Sampled From:	Prestons Road Alpine V Site B	**Date Sampled:**	25/02/2014
Specification:	No Specification	**Sampled By:**	Advised - See Comments
Sampling Method:	As Received - Not Accredited	**Date Tested:**	06/03/2014
Technician:	Daniel Daly	**Sampling Endorsed?:**	No

Dry Density - Moisture Relationship



Test Results

NZS 4402:1986 Test 4.1.3 - 1986

Maximum Dry Density (t/m³):	1.64
Optimum Moisture Content (%):	14
Solid Density (t/m³):	2.68 assumed
Fraction Tested Passes (mm):	37.5
Material Removed (%):	0
Sample History:	Natural

Comments

50% MEDIUM SAND 46% fine sand & 4% silt

Appendix G
NDM Test Results

Project Prestons Park Subdivision
Project No. 235361
Date 27-Nov-18
Title Summary of Compaction for Q1-Q3 and R1

Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
19/07/2018	1587/18	1	1	395190.7	811919	QR	1660	SAND	3		100
		2	2	395190	811938.3	QR	1660	SAND	3		98
18/07/2018	1568/18	1	3	395190.7	811919	QR	1660	SAND	2	1587/18/01	102
		2	4	395190	811938.3	QR	1660	SAND	2	1587/18/02	101
2/10/2018	2376/18	1	5	395352.1	811964.4	QR	2320	PIT RUN	4		99
		2	6	395363.2	811974.4	QR	2320	PIT RUN	4		96
		3	7	395317	811967.7	QR	2320	PIT RUN	1		95
		4	8	395308.9	811954	QR	2320	PIT RUN	1		99
		5	9	395363.2	811950	QR	1600	SAND	5		99
		6	10	395368	811966.4	QR	1600	SAND	5		101
		7	11	395383.7	811964.4	QR	1600	SAND	5		102
		8	12	395388.9	811984	QR	1600	SAND	5		100
24/10/2018	2575/18	1	13	395325.2	811955.8	QR	2320	PIT RUN	2		96
		2	14	395317.8	811936.1	QR	2320	PIT RUN	2		97
		3	15	395323.5	811931	QR	1620	SAND	1		106
		4	16	395343.6	811935.7	QR	1620	SAND	1		99
9/10/2018	2439/18	1	17	395301.8	811965.1	QR	2320	PIT RUN	1		96
		2	18	395319.5	811961.5	QR	2320	PIT RUN	1		96
		3	19	395367.9	811944.3	QR	1600	SAND	1		101
		4	20	395389.4	811946.7	QR	1600	SAND	1		101
		5	21	395394.7	811939.1	QR	1600	SAND	1		99
		6	22	395390.9	811919.1	QR	1600	SAND	1		99
		7	23	395411.4	811933.9	QR	1600	SAND	1		96
		8	24	395413.9	811956.2	QR	1600	SAND	1		96
		9	25	395410.5	811963.9	QR	1600	SAND	1		102
		10	26	395388	811959.8	QR	1600	SAND	1		98
3 & 4/10/20	2392/18	1	27	395319.5	811961.5	QR	2320	PIT RUN	2	2439/18/17	97
		2	28	395301.8	811965.1	QR	2320	PIT RUN	2	2439/18/18	97
		3	29	395291.9	811967.1	QR	2320	PIT RUN	1		97
		4	30	395276.6	811950.6	QR	2320	PIT RUN	1		97
		5	31	395346.3	811974.6	QR	1600	SAND	5		100
		6	32	395363.2	811974.4	QR	1600	SAND	5		101
		7	33	395368	811966.4	QR	1600	SAND	6 & FINAL	2376/18/10	100
		8	34	395363.2	811950	QR	1600	SAND	6 & FINAL	2376/18/09	98
		9	35	395383.7	811964.4	QR	1600	SAND	6 & FINAL		100
		10	36	395388.9	811984	QR	1600	SAND	6 & FINAL		101
		11	37	395363.2	811974.4	QR	1600	SAND	6 & FINAL		102
		12	38	395346.3	811974.6	QR	1600	SAND	6 & FINAL		104
29/10/2018	2615/18	1	39	395342.2	811933.3	QR	1620	SAND	2		99
		2	40	395328.6	811920.9	QR	1620	SAND	2		99
		3	41	395317.8	811936.1	QR	2320	PIT RUN	3		99
		4	42	395331.8	811947.4	QR	2320	PIT RUN	3		98
		5	43	395298.7	811942.8	QR	2320	PIT RUN	1		96
		6	44	395285.8	811932.3	QR	2320	PIT RUN	1		99
17/08/2018	1913/18	1	45	395375	812022.3	QR	2320	PIT RUN	4		95
		2	46	395360.4	812036.6	QR	2320	PIT RUN	4		96
		3	47	395349.9	812037.5	QR	2320	PIT RUN	4		98
		4	48	395337.7	812024.3	QR	2320	PIT RUN	4		99
21/08/2018	1936/18	1	49	395242.6	811638.1	QR	1600	SAND	2		102
		2	50	395246.3	811615.4	QR	1600	SAND	2		104
		3	51	395360.6	812004.1	QR	1600	SAND	5		109
		4	52	395376.9	812009.6	QR	1600	SAND	5		104
		5	53	395383.5	811994.6	QR	1600	SAND	5		109
		6	54	395368.5	811982.8	QR	1600	SAND	6		108
22/08/2018	1947/18	1	55	395399.4	812021.7	QR	2320	SAND	4		96
		2	56	395411.5	812033.2	QR	2320	SAND	4		96
22-Aug	1946/18	1	57	395242.6	811638.1	QR	1600	SAND	3		103

Project Prestons Park Subdivision
Project No. 235361
Date 27-Nov-18
Title Summary of Compaction for Q1-Q3 and R1

Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
		2	58	395246.3	811615.4	QR	1600	SAND		3	105
23/08/2018	1967/18	1	59	395489.1	811943.3	QR	1600	SAND		2	105
		2	60	395499.8	811953.8	QR	1600	SAND		2	104
17/08/2018	1912/18	1	61	395446.9	811959.3	QR	1600	SAND		2	99
		2	62	395453.2	811981.3	QR	1600	SAND		2	104
16/08/2018	1895/18	1	63	395280	811817.6	QR	1600	SAND	FINAL		102
		2	64	395263.8	811827.5	QR	1600	SAND	FINAL		108
		3	65	395250.3	811831.2	QR	1600	SAND	FINAL		108
		4	66	395246.1	811823.1	QR	1600	SAND	FINAL		103
2/08/2018	1747/18	1	67	395213.2	811916.7	QR	1600	SAND		1	105
		2	68	395212.5	811938.4	QR	1600	SAND		1	102
		3	69	395237.8	811945	QR	1600	SAND		2	103
		4	70	395239	811931.2	QR	1600	SAND		2	103
		5	71	395242.8	811922.5	QR	1600	SAND		2	104
		6	72	395261.8	811917.2	QR	1600	SAND		2	104
8/08/2018	1815/18	1	73	395228.4	811942.5	QR	1600	SAND		4	98
		2	74	395247.9	811940.6	QR	1600	SAND		4	98
		3	75	395261.8	811917.2	QR	1600	SAND		4	99
		4	76	395242.8	811922.5	QR	1600	SAND		4	99
		5	77	395213.2	811916.7	QR	1600	SAND		4	97
		6	78	395212.5	811938.4	QR	1600	SAND		4	100
3/08/2018	1765/18	1	79	395212.5	811938.4	QR	1600	SAND		2	94
		2	80	395213.2	811916.7	QR	1600	SAND		2	94
3/08/2018	1763/18	1	81	395376	811980.5	QR	1600	SAND		3	98
		2	82	395383.1	811986.8	QR	1600	SAND		3	96
		3	83	395378.4	812004.3	QR	1600	SAND		2	95
		4	84	395361.3	811994.5	QR	1600	SAND		2	99
		5	85	395376	811980.5	QR	1600	SAND		1	94
		6	86	395383.1	811986.8	QR	1600	SAND		1	98
		7	87	395378.4	812004.3	QR	1600	SAND		3	96
		8	88	395361.3	811994.5	QR	1600	SAND		3	98
15/08/2018	1875/18	1	89	395252.2	811924.9	QR	1600	SAND		5	100
		2	90	395235.8	811923.9	QR	1600	SAND		5	100
		3	91	395235.2	811939.9	QR	1600	SAND		5	102
		4	92	395247.9	811940.6	QR	1600	SAND		5	101
		5	93	395213.2	811916.7	QR	1600	SAND		5	102
		6	94	395212.5	811938.4	QR	1600	SAND		5	100
		7	95	395241.5	811692.5	QR	1600	SAND		1	102
		8	96	395242.1	811673.6	QR	1600	SAND		1	102
		9	97	395246.9	811655.6	QR	1600	SAND		1	100
		10	98	395224.5	811654.4	QR	1600	SAND		1	96
		11	99	395209.1	811655.4	QR	1600	SAND		1	97
		12	100	395198.2	811665.4	QR	1600	SAND		1	96
		13	101	395209.8	811677.4	QR	1600	SAND		1	101
		14	102	395224.8	811685.8	QR	1600	SAND		1	99
		15	103	395223.3	811699.5	QR	1600	SAND		1	98
		16	104	395206	811707.5	QR	1600	SAND		1	96
		17	105	395224.1	811721.8	QR	1600	SAND		1	99
		18	106	395205.6	811728.1	QR	1600	SAND		1	98
		19	107	395246.1	811723.5	QR	1600	SAND		1	95
		20	108	395238.5	811703.6	QR	1600	SAND		1	96
16/08/2018	1894/18	1	109	395264.8	811786	QR	1600	SAND	FINAL		104
		2	110	395246.7	811793.9	QR	1600	SAND	FINAL		105
		3	111	395239.3	811774.9	QR	1600	SAND	FINAL		107
		4	112	395258.1	811768.8	QR	1600	SAND	FINAL		110
		5	113	395252.6	811751.6	QR	1600	SAND	FINAL		104
		6	114	395234.8	811757.1	QR	1600	SAND	FINAL		107

Project Prestons Park Subdivision
Project No. 235361
Date 27-Nov-18
Title Summary of Compaction for Q1-Q3 and R1

Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
		7	115	395221.4	811753.9	QR	1600	SAND	FINAL		105
		8	116	395224.3	811766.1	QR	1600	SAND	FINAL		104
		9	117	395227.5	811774.1	QR	1600	SAND	FINAL		101
		10	118	395229.9	811783.4	QR	1600	SAND	FINAL		101
		11	119	395233	811790.1	QR	1600	SAND	FINAL		99
		12	120	395236.8	811799.4	QR	1600	SAND	FINAL		103
		13	121	395239.7	811807.2	QR	1600	SAND	FINAL		102
		14	122	395242.7	811815.1	QR	1600	SAND	FINAL		103
		15	123	395254	811811.5	QR	1600	SAND	FINAL		106
		16	124	395272.8	811803.2	QR	1600	SAND	FINAL		104
6/08/2018	1779/18	1	125	395212.7	811932.4	QR	1600	SAND		3	99
		2	126	395218.8	811942.9	QR	1600	SAND		3	93
		3	127	395235.2	811939.9	QR	1600	SAND		3	94
		4	128	395229.2	811928.8	QR	1600	SAND		3	97
		5	129	395247.1	811919.7	QR	1600	SAND		3	95
		6	130	395250.3	811929.3	QR	1600	SAND		3	98
		7	131	395210.1	811945.6	QR	1600	SAND		2 17/65/18	100
		8	132	395205.2	811937.8	QR	1600	SAND		2 1765/18	98
17/08/2018	1911/18	1	133	395261.8	811917.2	QR	1600	SAND	FINAL		103
		2	134	395242.8	811922.5	QR	1600	SAND	FINAL		107
		3	135	395243.1	811937.1	QR	1600	SAND	FINAL		102
		4	136	395226	811938.4	QR	1600	SAND	FINAL		106
		5	137	395212.5	811938.4	QR	1600	SAND	FINAL		101
		6	138	395213.2	811916.7	QR	1600	SAND	FINAL		101
		7	139	395190.7	811919	QR	1600	SAND	FINAL		108
		8	140	395190	811938.3	QR	1600	SAND	FINAL		100
6/11/2018	2660/18	1	141	395291	811927.8	QR	2320	PIT RUN		2	98
		2	142	395312.3	811931.8	QR	2320	PIT RUN		2	98
		3	143	395317.5	811926.1	QR	1620	SAND		2	104
		4	144	395308.6	811905.5	QR	1620	SAND		2	105
31/10/2018	2631/18	1	145	395285.8	811932.3	QR	2320	PIT RUN		3	99
		2	146	395294.6	811951.7	QR	2320	PIT RUN		3	99
		3	147	395310.8	811946.2	QR	2320	PIT RUN		5	96
		4	148	395331.8	811947.4	QR	2320	PIT RUN		5	97
		5	149	395336	811942.3	QR	1620	SAND		4	103
		6	150	395328.6	811920.9	QR	1620	SAND		4	102
19/10/2018	2554/18	1	151	395328.4	811820.2	QR	1620	SAND	FINAL		96
		2	152	395347.7	811820.9	QR	1620	SAND	FINAL		99
		3	153	395345.5	811805.5	QR	1620	SAND	FINAL		97
		4	154	395364.7	811806.2	QR	1620	SAND	FINAL		97
30/10/2018	2623/18	1	155	395283.4	811938.6	QR	2320	PIT RUN		2	98
		2	156	395296.1	811946.7	QR	2320	PIT RUN		2	98
		3	157	395310.8	811946.2	QR	2320	PIT RUN		4	98
		4	158	395331.8	811947.4	QR	2320	PIT RUN		4	97
		5	159	395336	811942.3	QR	1620	SAND		3	101
		6	160	395328.6	811920.9	QR	1620	SAND		3	102
19/10/2018	2556/18	1	161	395314.6	811941.1	QR	2320	PIT RUN	FINAL		99
		2	162	395327.6	811952.5	QR	2320	PIT RUN	FINAL		97
6/11/2018	2669/18	1	163	395291	811927.8	QR	2320	PIT RUN		3	97
		2	164	395312.3	811931.8	QR	2320	PIT RUN		3	95
		3	165	395317.5	811926.1	QR	1620	SAND		3	100
		4	166	395308.6	811905.5	QR	1620	SAND		3	103
7/11/2018	2686/18	1	167	395291	811927.8	QR	2320	PIT RUN	FINAL		96
		2	168	395312.3	811931.8	QR	2320	PIT RUN	FINAL		96
		3	169	395254.7	811758.1	QR	1660	SAND		1	101
		4	170	395232.5	811752.5	QR	1660	SAND		1	99
		5	171	395221.4	811753.9	QR	1660	SAND		1	103

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Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
		6	172	395208.8	811770.1	QR	1660	SAND	1		102
		7	173	395302.4	811914	QR	1660	SAND	FINAL		96
		8	174	395324.1	811919.3	QR	1660	SAND	FINAL		96
5/11/2018	2659/18	1	175	395291	811927.8	QR	2320	PIT RUN	1	2648/18	95
		2	176	395312.3	811931.8	QR	2320	PIT RUN	1	2648/18	95
2/11/2018	2648/18	1	177	395305.5	811909.6	QR	1620	SAND	1		100
		2	178	395320.7	811922.7	QR	1620	SAND	1		111
		3	179	395312.3	811931.8	QR	2320	PIT RUN	1		91
		4	180	395291	811927.8	QR	2320	PIT RUN	1		94
1/11/2018	2638/18	1	181	395280.9	811943.2	QR	2320	PIT RUN	4 & FINAL		98
		2	182	395298.7	811942.8	QR	2320	PIT RUN	4 & FINAL		97
		3	183	395323.5	811931	QR	1620	SAND	5 & FINAL		100
		4	184	395342.2	811933.3	QR	1620	SAND	5 & FINAL		98
8/11/2018	2696/18	1	185	395213.3	811755.1	QR	1660	SAND	2		102
		2	186	395216.6	811768.2	QR	1660	SAND	2		103
		3	187	395245.3	811760.7	QR	1660	SAND	2		103
		4	188	395242.3	811749	QR	1660	SAND	2		100
30/07/2018	1700/18	1	189	395249.8	811702	QR	1600	SAND	FINAL		103
		2	190	395249.9	811687.3	QR	1600	SAND	FINAL		106
		3	191	395234.1	811686.2	QR	1600	SAND	FINAL		104
		4	192	395233.7	811701.8	QR	1600	SAND	FINAL		102
13/11/2018	2735/18	1	193	395245.3	811760.7	QR	1660	SAND	FINAL		98
		2	194	395242.3	811749	QR	1660	SAND	FINAL		96
		3	195	395213.3	811755.1	QR	1660	SAND	FINAL		99
		4	196	395216.6	811768.2	QR	1660	SAND	FINAL		95
		5	197	395211.2	811778.6	QR	1660	SAND	FINAL		99
		6	198	395226.3	811782.6	QR	1660	SAND	FINAL		100
		7	199	395239.3	811774.9	QR	1660	SAND	FINAL		96
		8	200	395258.1	811768.8	QR	1660	SAND	FINAL		100
		9	201	395264.8	811786	QR	1660	SAND	FINAL		103
		10	202	395246.7	811793.9	QR	1660	SAND	FINAL		103
		11	203	395234.8	811794.6	QR	1660	SAND	FINAL		99
		12	204	395220.6	811800.3	QR	1660	SAND	FINAL		98
		13	205	395225.4	811813.8	QR	1660	SAND	FINAL		102
		14	206	395237.5	811814.5	QR	1660	SAND	FINAL		100
		15	207	395254	811811.5	QR	1660	SAND	FINAL		101
		16	208	395272.8	811803.2	QR	1660	SAND	FINAL		99
		17	209	395248.3	811826.9	QR	1660	SAND	FINAL		106
		18	210	395236.8	811833.6	QR	1660	SAND	FINAL		101
		19	211	395263.8	811827.5	QR	1660	SAND	FINAL		102
		20	212	395280	811817.6	QR	1660	SAND	FINAL		105
		21	213	395288.9	811832.4	QR	1660	SAND	FINAL		105
		22	214	395276.9	811842.8	QR	1660	SAND	FINAL		102
		23	215	395294.6	811845	QR	1660	SAND	FINAL		101
		24	216	395299.7	811856.5	QR	1660	SAND	FINAL		103
		25	217	395284.1	811857.7	QR	1660	SAND	FINAL		105
		26	218	395285.5	811874.2	QR	1660	SAND	FINAL		99
		27	219	395279.1	811879.9	QR	1660	SAND	FINAL		98
		28	220	395281.1	811897.6	QR	1660	SAND	FINAL		100
5/12/2018	2904/18	1	221	395137	811828.4	QR	1660	SAND	FINAL		104
		2	222	395136.1	811836	QR	1660	SAND	FINAL		102
		3	223	395135.3	811848.2	QR	1660	SAND	FINAL		102
		4	224	395135.2	811857.9	QR	1660	SAND	FINAL		95
		5	225	395134	811870.2	QR	1660	SAND	FINAL		99
		6	226	395132.8	811877.8	QR	1660	SAND	FINAL		99
		7	227	395132.1	811890.6	QR	1660	SAND	FINAL		99
		8	228	395131.3	811897.9	QR	1660	SAND	FINAL		98

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Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
		9	229	395130	811911.8	QR	1660	SAND	FINAL		96
		10	230	395129.5	811919.8	QR	1660	SAND	FINAL		95
23/11/2018	2824/18	1	231	395136.1	811836	QR	1660	SAND	1	2904/18/222	100
		2	232	395135.3	811848.2	QR	1660	SAND	1	2904/18/223	99
		3	233	395135.2	811857.9	QR	1660	SAND	1	2904/18/224	96
		4	234	395134	811870.2	QR	1660	SAND	1	2904/18/225	99
		5	235	395132.8	811877.8	QR	1660	SAND	1	2904/18/226	99
		6	236	395132.1	811890.6	QR	1660	SAND	1	2904/18/227	100
		7	237	395131.3	811897.9	QR	1660	SAND	1	2904/18/228	102
		8	238	395130	811911.8	QR	1660	SAND	1	2904/18/229	102
		9	239	395129.5	811919.8	QR	1660	SAND	1	2904/18/230	101
		10	240	395137	811828.4	QR	1660	SAND	1	2904/18/221	98
4/12/2018	2887/18	1	241	395137	811828.4	QR	1660	SAND	3	2904/18/221	98
		2	242	395136.1	811836	QR	1660	SAND	3	2904/18/222	96
		3	243	395135.3	811848.2	QR	1660	SAND	3	2904/18/223	96
		4	244	395135.2	811857.9	QR	1660	SAND	3	2904/18/224	98
		5	245	395134	811870.2	QR	1660	SAND	3	2904/18/225	97
		6	246	395132.8	811877.8	QR	1660	SAND	3	2904/18/226	96
		7	247	395132.1	811890.6	QR	1660	SAND	3	2904/18/227	98
		8	248	395131.3	811897.9	QR	1660	SAND	3	2904/18/228	100
		9	249	395130	811911.8	QR	1660	SAND	3	2904/18/229	99
		10	250	395129.5	811919.8	QR	1660	SAND	3	2904/18/230	99
12/11/2018	2709/18	1	251	395254.7	811758.1	QR	1660	SAND	3	2686/18/169	101
		2	252	395232.5	811752.5	QR	1660	SAND	3	2686/18/170	102
		3	253	395221.4	811753.9	QR	1660	SAND	3	2686/18/171	100
		4	254	395208.8	811770.1	QR	1660	SAND	3	2686/18/172	100
		5	255	395335.6	811880.8	QR	1660	SAND	FINAL		103
		6	256	395341.3	811899.2	QR	1660	SAND	FINAL		107
		7	257	395335.9	811906.1	QR	1660	SAND	FINAL		105
		8	258	395313.1	811901.3	QR	1660	SAND	FINAL		99
		9	259	395333.1	811918.8	QR	1660	SAND	FINAL		101
		10	260	395357.9	811922.9	QR	1660	SAND	FINAL		109
		11	261	395361.1	811918	QR	1660	SAND	FINAL		104
		12	262	395357.4	811891.8	QR	1660	SAND	FINAL		102
7/09/2018	2110/18	1	263	395198.2	811665.4	QR	1700	SAND	FINAL		102
		2	264	395209.1	811655.4	QR	1700	SAND	FINAL		106
		3	265	395184.1	811655.6	QR	1700	SAND	FINAL		102
		4	266	395157.2	811649.1	QR	1700	SAND	FINAL		102
		5	267	395153.1	811668.7	QR	1700	SAND	FINAL		103
		6	268	395171.4	811683.4	QR	1700	SAND	FINAL		106
		7	269	395173.1	811693	QR	1700	SAND	FINAL		101
		8	270	395148.9	811704.7	QR	1700	SAND	FINAL		108
		9	271	395147.5	811713.2	QR	1700	SAND	FINAL		103
		10	272	395175.5	811727.7	QR	1700	SAND	FINAL		101
		11	273	395174.5	811736.1	QR	1700	SAND	FINAL		103
		12	274	395145	811742.4	QR	1700	SAND	FINAL		102
		13	275	395144.8	811750.3	QR	1700	SAND	FINAL		104
		14	276	395175.4	811762.3	QR	1700	SAND	FINAL		105
		15	277	395177.7	811771.3	QR	1700	SAND	FINAL		102
		16	278	395140.4	811787.8	QR	1700	SAND	FINAL		101
		17	279	395140.6	811794.9	QR	1700	SAND	FINAL		104
		18	280	395164.7	811808.4	QR	1700	SAND	FINAL		101
		19	281	395175.1	811794	QR	1700	SAND	FINAL		103
		20	282	395192.4	811807.5	QR	1700	SAND	FINAL		101
		21	283	395164.6	811817.6	QR	1700	SAND	FINAL		106
		22	284	395137	811828.4	QR	1700	SAND	FINAL		103
		23	285	395180.2	811821.1	QR	1700	SAND	FINAL		104

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Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
		24	286	395202.9	811828.5	QR	1700	SAND	FINAL		106
		25	287	395172.3	811840.3	QR	1700	SAND	FINAL		103
		26	288	395135.3	811848.2	QR	1700	SAND	FINAL		101
17/09/2018	2204/18	1	289	395372.6	812037.6	QR	1700	SAND	5 & FINAL		99
		2	290	395363.2	812022	QR	1700	SAND	5 & FINAL		100
		3	291	395364.6	812012.2	QR	1700	SAND	6 & FINAL		96
		4	292	395378.4	812004.3	QR	1700	SAND	6 & FINAL		96
		5	293	395380.9	811998.3	QR	1700	SAND	6 & FINAL		99
		6	294	395376	811980.5	QR	1700	SAND	6 & FINAL		98
		7	295	395355.8	811988.9	QR	1700	SAND	5 & FINAL		102
		8	296	395339.6	811997.2	QR	1700	SAND	5 & FINAL		100
		9	297	395339.4	812005.6	QR	1700	SAND	5 & FINAL		101
		10	298	395352.3	812019.7	QR	1700	SAND	5 & FINAL		101
		11	299	395349.3	812026.9	QR	2320	PIT RUN	5 & FINAL		98
		12	300	395337.1	812035.9	QR	2320	PIT RUN	5 & FINAL		97
21/09/2018	2293/18	1	301	395393.9	811981.2	QR	1600	SAND	1		99
		2	302	395380.8	811969.8	QR	1600	SAND	1		98
		3	303	395372.4	811964.3	QR	1600	SAND	1		96
		4	304	395360.2	811954.2	QR	1600	SAND	1		95
1-Oct	2348/18	1	305	395393.9	811981.2	QR	1700	SAND	4		95
		2	306	395380.8	811969.8	QR	1700	SAND	4		99
		3	307	395372.4	811964.3	QR	1700	SAND	4		95
		4	308	395360.2	811954.2	QR	1700	SAND	4		102
		5	309	395352.1	811964.4	QR	2320	PIT RUN	3		96
		6	310	395363.2	811974.4	QR	2320	PIT RUN	3		95
12/09/2018	2144/18	1	311	395558.9	812009.9	QR	1660	SAND	2		102
		2	312	395545.2	811989.1	QR	1660	SAND	2		100
		3	313	395530.9	811970.4	QR	1660	SAND	2		97
		4	314	395500.2	811939.2	QR	1660	SAND	2		98
26/09/2018	2318/18	1	315	395388.9	811984	QR	1600	SAND	2		95
		2	316	395383.7	811964.4	QR	1600	SAND	2		99
		3	317	395372.4	811964.3	QR	1600	SAND	2		97
		4	318	395360.2	811954.2	QR	1600	SAND	2		98
		5	319	395352.1	811964.4	QR	2320	PIT RUN	1		99
		6	320	395363.2	811974.4	QR	2320	PIT RUN	1		97
		7	321	395248.2	811641.6	QR	1600	SAND	FINAL		96
		8	322	395234.6	811640.5	QR	1600	SAND	FINAL		98
		9	323	395223	811639.8	QR	1600	SAND	FINAL		99
		10	324	395211.1	811638.7	QR	1600	SAND	FINAL		99
		11	325	395200	811637.7	QR	1700	SAND	FINAL		100
		12	326	395187.9	811637.3	QR	1700	SAND	FINAL		97
28/09/2018	2335/18	1	327	395352.1	811964.4	QR	2320	PIT RUN		2	98
		2	328	395363.2	811974.4	QR	2320	PIT RUN		2	98
		3	329	395357.4	811958.2	QR	1660	SAND		3	100
		4	330	395376.9	811961.6	QR	1660	SAND		3	102
		5	331	395383.7	811964.4	QR	1660	SAND		3	98
		6	332	395388.9	811984	QR	1660	SAND		3	99
13/09/2018	2173/18	1	333	395242.6	811638.1	QR	1600	SAND		4	102
		2	334	395246.3	811615.4	QR	1600	SAND		4	101
		3	335	395500.2	811939.2	QR	1600	SAND		3	103
		4	336	395530.9	811970.4	QR	1600	SAND		3	97
		5	337	395545.2	811989.1	QR	1600	SAND		3	97
		6	338	395558.9	812009.9	QR	1600	SAND		3	98
15/10/2018	2505/18	1	339	395276.6	811950.6	QR	2320	PIT RUN		3	96
		2	340	395291.9	811967.1	QR	2320	PIT RUN		3	96
		3	341	395301.8	811965.1	QR	2320	PIT RUN		4	98
		4	342	395317	811967.7	QR	2320	PIT RUN		4	99

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Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
		5	343	395319.5	811961.5	QR	2320	PIT RUN	2		96
		6	344	395308.9	811954	QR	2320	PIT RUN	2		96
16/10/2018	2520/18	1	345	395276.6	811950.6	QR	2320	PIT RUN	FINAL		98
		2	346	395291.9	811967.1	QR	2320	PIT RUN	FINAL		99
		3	347	395301.8	811965.1	QR	2320	PIT RUN	FINAL		98
		4	348	395317	811967.7	QR	2320	PIT RUN	FINAL		100
		5	349	395319.5	811961.5	QR	2320	PIT RUN	3 - PARTIAL		98
		6	350	395308.9	811954	QR	2320	PIT RUN	3 - PARTIAL		98
17/10/2018	2522/18	1	351	395355.9	811795.9	QR	1620	SAND	3		98
		2	352	395355.4	811816.1	QR	1620	SAND	3		96
		3	353	395347.7	811820.9	QR	1620	SAND	3		98
		4	354	395328.4	811820.2	QR	1620	SAND	3		102
17/10/2018	2521/18	1	355	395319.5	811961.5	QR	2320	PIT RUN	4		96
		2	356	395308.9	811954	QR	2320	PIT RUN	4		99
15/10/2018	2506/18	1	357	395336.3	811828.5	QR	1620	SAND	2		96
		2	358	395337.9	811812.9	QR	1620	SAND	2		99
		3	359	395345.5	811805.5	QR	1620	SAND	2		98
		4	360	395364.7	811806.2	QR	1620	SAND	2		97
17/10/2018	2534/18	1	361	395319.5	811961.5	QR	2320	PIT RUN	FINAL		98
		2	362	395308.9	811954	QR	2320	PIT RUN	FINAL		99
5/10/2018	2409/18	1	363	395336.3	811828.5	QR	1700	SAND	1		99
		2	364	395337.9	811812.9	QR	1700	SAND	1		103
		3	365	395345.5	811805.5	QR	1700	SAND	1		100
		4	366	395364.7	811806.2	QR	1700	SAND	1		98
29/08/2018	2022/18	1	367	395434.1	812004.3	QR	1600	SAND	5 & FINAL		103
		2	368	395421.3	811991.9	QR	1600	SAND	5 & FINAL		102
		3	369	395411.2	812004.8	QR	1600	SAND	5 & FINAL		105
		4	370	395423.7	812015.4	QR	1600	SAND	5 & FINAL		105
		5	371	395411.5	812033.2	QR	1600	SAND	5 & FINAL		109
		6	372	395399.4	812021.7	QR	1600	SAND	5 & FINAL		104
4/10/2018	2401/18	1	373	395275.2	811962	QR	2320	PIT RUN	2		97
		2	374	395291	811963.3	QR	2320	PIT RUN	2		95
		3	375	395301.8	811965.1	QR	2320	PIT RUN	3		95
		4	376	395317	811967.7	QR	2320	PIT RUN	3		95
27/08/2018	1989/18	1	377	395456.8	811978.3	QR	1600	SAND	4 & FINAL		104
		2	378	395443.1	811965.7	QR	1600	SAND	4 & FINAL		106
		3	379	395431.5	811979.4	QR	1600	SAND	4 & FINAL		102
		4	380	395445.4	811992.1	QR	1600	SAND	4 & FINAL		103
		5	381	395434.1	812004.3	QR	1600	SAND	4		102
		6	382	395421.3	811991.9	QR	1600	SAND	4		108
30/08/2018	2036/18	1	383	395494.8	811937.2	QR	1600	SAND	4		99
		2	384	395493.1	811958.5	QR	1600	SAND	4		99
		3	385	395512.9	811978.1	QR	1600	SAND	5		96
		4	386	395533.9	811977.1	QR	1600	SAND	5		99
		5	387	395541.4	811984.3	QR	1600	SAND	5		99
		6	388	395534.6	812006	QR	1600	SAND	5		99
		7	389	395539.1	812013.2	QR	1600	SAND	5		97
		8	390	395563.3	812020.5	QR	1600	SAND	5		101
		9	391	395234.6	811640.5	QR	1600	SAND	4		105
		10	392	395246.3	811615.4	QR	1600	SAND	4		97
16/07/2018	1522/18	1	393	395349.9	812037.5	QR	2320	PIT RUN	1		97
		2	394	395337.7	812024.3	QR	2320	PIT RUN	1		97
		3	395	395352.3	812019.7	QR	2320	PIT RUN	1		99
		4	396	395339.4	812005.6	QR	2320	PIT RUN	1		96
		5	397	395353.6	811997.7	QR	2320	PIT RUN	1		96
		6	398	395343.2	811984.4	QR	2320	PIT RUN	1		98
7/08/2018	1795/18	1	399	395360.6	812004.1	QR	1600	SAND	4	RETEST 1780/18	101

Project Prestons Park Subdivision
Project No. 235361
Date 27-Nov-18
Title Summary of Compaction for Q1-Q3 and R1

Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
		2	400	395376.9	812009.6	QR	1600	SAND	4	RETEST 1780/18	102
		3	401	395421.3	811991.9	QR	1600	SAND	2		104
		4	402	395434.1	812004.3	QR	1600	SAND	2		102
		5	403	395445.4	811992.1	QR	1600	SAND	2		105
		6	404	395431.5	811979.4	QR	1600	SAND	2		99
		7	405	395443.1	811965.7	QR	1600	SAND	1		104
		8	406	395456.8	811978.3	QR	1600	SAND	1		105
6/08/2018	1780/18	1	407	395421.3	811991.9	QR	1600	SAND	1		101
		2	408	395434.1	812004.3	QR	1600	SAND	1		101
		3	409	395445.4	811992.1	QR	1600	SAND	1		98
		4	410	395431.5	811979.4	QR	1600	SAND	1		101
		5	411	395366.3	811988.6	QR	1600	SAND	4		97
		6	412	395380.9	811998.3	QR	1600	SAND	4		98
		7	413	395376.9	812009.6	QR	1600	SAND	4		98
		8	414	395360.6	812004.1	QR	1600	SAND	4		95
		9	415	395373.6	812030.5	QR	1600	SAND	4		97
		10	416	395361.7	812029.9	QR	1600	SAND	4		97
		11	417	395376	811980.5	QR	1600	SAND	2	RETEST 1763/18	98
		12	418	395383.1	811986.8	QR	1600	SAND	2	RETEST 1763/18	95
2/08/2018	1748/18	1	419	395423.7	812015.4	QR	1600	SAND	3		96
		2	420	395411.2	812004.8	QR	1600	SAND	3		98
		3	421	395378.4	812004.3	QR	1600	SAND	2		98
		4	422	395361.3	811994.5	QR	1600	SAND	2		98
31/07/2018	1722/18	1	423	395250.3	811929.3	QR	1600	SAND	1		107
		2	424	395254	811913.6	QR	1600	SAND	1		103
		3	425	395229.2	811928.8	QR	1600	SAND	1		101
		4	426	395247.9	811940.6	QR	1600	SAND	1		103
31/07/2018	1720/18	1	427	395370	812013.3	QR	1600	SAND	1		100
		2	428	395370.1	812001	QR	1600	SAND	1		99
26/07/2018	1656/18	1	429	395399.4	812021.7	QR	2320	PIT RUN	2		99
		2	430	395411.5	812033.2	QR	2320	PIT RUN	2		96
25/07/2018	1645/18	1	431	395406.6	812017.3	QR	2320	PIT RUN	1		99
		2	432	395405.8	812034.4	QR	2320	PIT RUN	1		97
25/07/2018	1644/18	1	433	395264	811876.9	QR	1600	SAND	1		97
		2	434	395255.7	811864	QR	1600	SAND	1		100
		3	435	395267	811855.8	QR	1600	SAND	1		97
		4	436	395243.7	811850	QR	1600	SAND	1		99
		5	437	395257	811840.7	QR	1600	SAND	1		99
		6	438	395157.1	811928.7	QR	1600	SAND	FINAL		98
		7	439	395135.5	811926.4	QR	1600	SAND	FINAL		98
		8	440	395135.9	811906.1	QR	1600	SAND	FINAL		97
		9	441	395158.7	811906.1	QR	1600	SAND	FINAL		103
24/07/2018	1627/18	1	442	395198.5	811938.7	QR	1660	SAND	3		100
		2	443	395190	811938.3	QR	1660	SAND	5		102
		3	444	395190.7	811919	QR	1660	SAND	5		99
		4	445	395199.1	811919.7	QR	1660	SAND	3		98
20/07/2018	1604/18	1	446	395198.5	811938.7	QR	1660	SAND	1		101
		2	447	395190	811938.3	QR	1660	SAND	1		99
		3	448	395190.7	811919	QR	1660	SAND	4		100
		4	449	395199.1	811919.7	QR	1660	SAND	4		97
19/07/2018	1586/18	1	450	395343.2	811984.4	QR	2320	PIT RUN	3		97
		2	451	395353.6	811997.7	QR	2320	PIT RUN	3		100
		3	452	395353	812006.6	QR	2320	PIT RUN	3		96
		4	453	395337.4	812018.3	QR	2320	PIT RUN	3		100
		5	454	395337.7	812024.3	QR	2320	PIT RUN	3		100
		6	455	395349.9	812037.5	QR	2320	PIT RUN	3		99
		7	456	395360.4	812036.6	QR	2320	PIT RUN	3		98

Project Prestons Park Subdivision
Project No. 235361
Date 27-Nov-18
Title Summary of Compaction for Q1-Q3 and R1

Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
		8	457	395375	812022.3	QR	2320	PIT RUN	3		99
18/07/2018	1569/18	1	458	395363.2	812022	QR	2320	PIT RUN	2		102
		2	459	395372.6	812037.6	QR	2320	PIT RUN	2		99
18/07/2018	1555/18	1	460	395343.2	811984.4	QR	2320	PIT RUN	2		97
		2	461	395353.6	811997.7	QR	2320	PIT RUN	2		99
		3	462	395353	812006.6	QR	2320	PIT RUN	2		100
		4	463	395337.4	812018.3	QR	2320	PIT RUN	2		99
		5	464	395349.3	812026.9	QR	2320	PIT RUN	2		98
		6	465	395337.1	812035.9	QR	2320	PIT RUN	2		98
		7	466	395360.4	812036.6	QR	2320	PIT RUN	1		98
		8	467	395375	812022.3	QR	2320	PIT RUN	1		101
11/09/2018	2127/18	1	468	395558.9	812009.9	QR	1660	SAND	1		98
		2	469	395545.2	811989.1	QR	1660	SAND	1		96
		3	470	395530.9	811970.4	QR	1660	SAND	1		100
		4	471	395500.2	811939.2	QR	1660	SAND	1		99
20/08/2018	1932/18	1	472	395248.2	811641.6	QR	1600	SAND	1		97
		2	473	395246.3	811615.4	QR	1600	SAND	1		100
		3	474	395343.2	811984.4	QR	1600	SAND	4		102
		4	475	395353.6	811997.7	QR	1600	SAND	4		102
		5	476	395353	812006.6	QR	1600	SAND	4		100
		6	477	395337.4	812018.3	QR	1600	SAND	4		103
		7	478	395460.6	811971.5	QR	1600	SAND	3		103
		8	479	395439.5	811969.6	QR	1600	SAND	3		104
		9	480	395434.2	811975.6	QR	1600	SAND	3		99
		10	481	395442.9	811995.6	QR	1600	SAND	3		103
		11	482	395438	812000.4	QR	1600	SAND	3		100
		12	483	395416.4	811994.9	QR	1600	SAND	3		100
		13	484	395413.5	812000.4	QR	1600	SAND	4		102
		14	485	395420.9	812020.1	QR	1600	SAND	4		105
		15	486	395418	812025.7	QR	1600	SAND	5		105
		16	487	395399.6	812033.5	QR	1600	SAND	5		107
18/09/2018	2217/18	1	488	395500.2	811939.2	QR	1700	SAND	5		101
		2	489	395489.1	811943.3	QR	1700	SAND	5		97
		3	490	395530.9	811970.4	QR	1700	SAND	5		100
		4	491	395545.2	811989.1	QR	1700	SAND	5		96
		5	492	395558.9	812009.9	QR	1700	SAND	5		98
14/09/2018	2185/18	1	493	395500.2	811939.2	QR	1600	SAND	4		102
		2	494	395530.9	811970.4	QR	1600	SAND	4		103
		3	495	395545.2	811989.1	QR	1600	SAND	4		100
		4	496	395558.9	812009.9	QR	1600	SAND	4		99
30/07/2018	1697/18	1	497	395360.4	812036.6	QR	2320	PIT RUN	3		95
		2	498	395375	812022.3	QR	2320	PIT RUN	3		96
15/06/2018	1233/18	1	499	395162.3	811955	QR	2320	PIT RUN	3		97
		2	500	395146.2	811946.7	QR	2320	PIT RUN	3		100
		3	501	395126.7	811937.4	QR	2320	PIT RUN	3		100
14/06/2018	1215/18	1	502	395162.3	811955	QR	2320	PIT RUN	1		97
		2	503	395146.2	811946.7	QR	2320	PIT RUN	1		98
		3	504	395126.7	811937.4	QR	2320	PIT RUN	1		96
15/06/2018	1224/18	1	505	395162.5	811940.4	QR	2320	PIT RUN	2		98
		2	506	395146.2	811946.7	QR	2320	PIT RUN	2		100
		3	507	395127.7	811953	QR	2320	PIT RUN	2		98
27/06/2018	1332/18	1	508	395247.2	811951.7	QR	2320	PIT RUN	1		98
		2	509	395231.6	811962.7	QR	2320	PIT RUN	1		97
		3	510	395221.1	811950.8	QR	2320	PIT RUN	1		99
		4	511	395208.9	811961.9	QR	2320	PIT RUN	1		100
		5	512	395200.1	811948.8	QR	2320	PIT RUN	1		98
		6	513	395186.6	811959.9	QR	2320	PIT RUN	1		96

Project Prestons Park Subdivision
Project No. 235361
Date 27-Nov-18
Title Summary of Compaction for Q1-Q3 and R1

Date	Test ID#	Test #	Unique ID#	mE	mN	Stage	MDD	Type	Lift #	Retest	Compaction
28/06/2018	1354/18	1	514	395242.1	811963.1	QR	2320	PIT RUN		3	97
		2	515	395221.1	811950.8	QR	2320	PIT RUN		3	99
		3	516	395210.3	811949.6	QR	2320	PIT RUN		3	98
		4	517	395186.6	811959.9	QR	2320	PIT RUN		3	99
28/06/2018	1347/18	1	518	395242.1	811963.1	QR	2320	PIT RUN		2	95
		2	519	395221.1	811950.8	QR	2320	PIT RUN		2	96
		3	520	395210.3	811949.6	QR	2320	PIT RUN		2	97
		4	521	395186.6	811959.9	QR	2320	PIT RUN		2	97
16/07/2018	1523/18	1	522	395186.6	811959.9	QR	1660	SAND		1	97
		2	523	395190.7	811919	QR	1660	SAND		1	97
29/06/2018	1369/18	1	524	395240.9	811956.9	QR	2320	PIT RUN	FINAL		100
		2	525	395224.8	811955.7	QR	2320	PIT RUN	FINAL		102
		3	526	395206.5	811954.7	QR	2320	PIT RUN	FINAL		100
		4	527	395188.9	811953.4	QR	2320	PIT RUN	FINAL		102
25/07/2018	1515/18	1	528	395161.1	811885.7	QR	1660	SAND		1	95
		2	529	395163.1	811864.9	QR	1660	SAND		1	95

Appendix H
Post Earthfill CPT Logs

CPT TEST LOG

Job Number: 18255

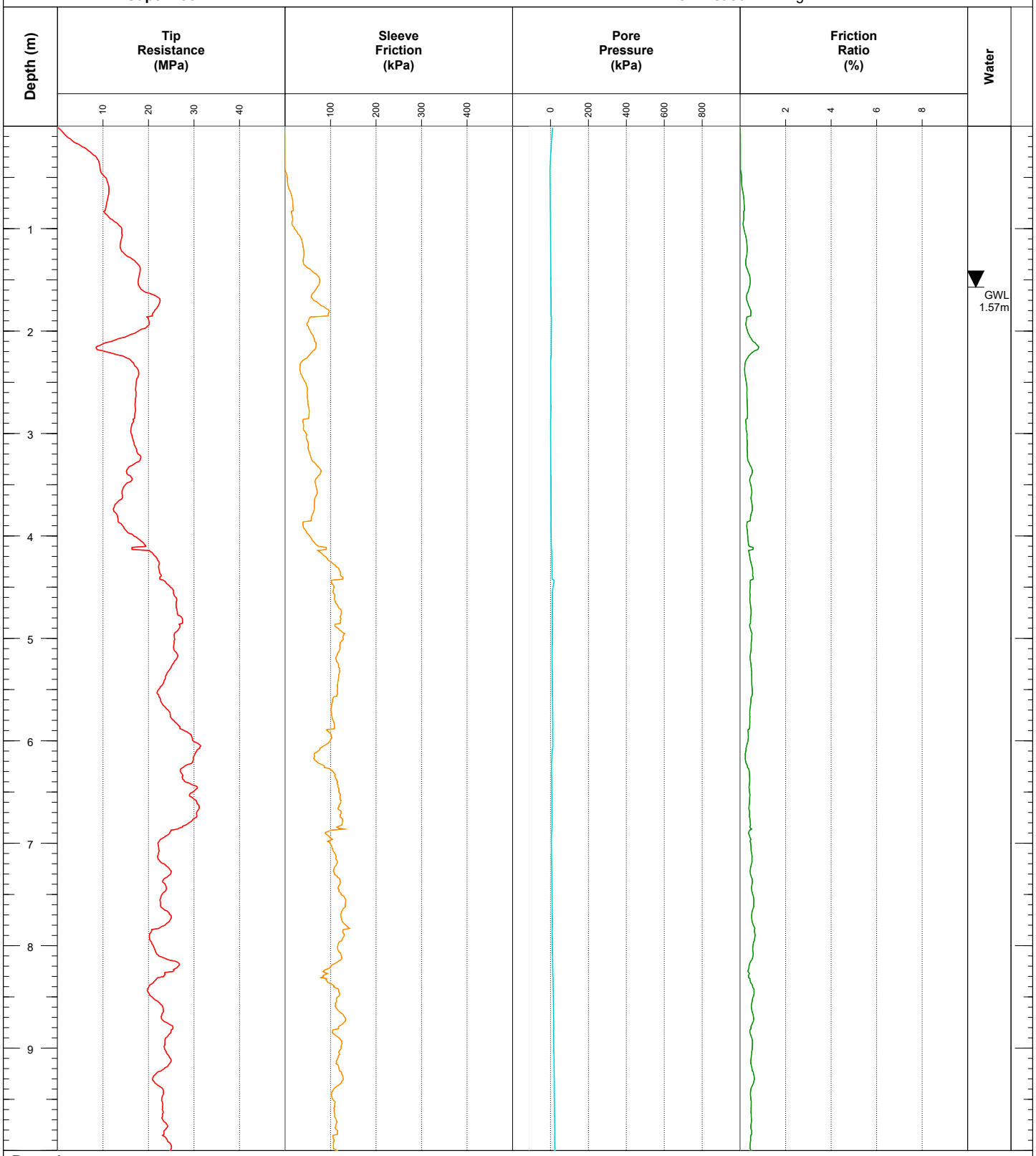
Client: Aurecon

Project: Prestons Park Stage 3

Test Label: CPTPF55

Site Location: Marshland, Christchurch
Test Date: 23/08/2018
Coordinates: CPTPF55, CPTPF55 (WGS84)
Supervisor: Kieran Foote

Operator: Edwin Diaz
Piezocone (Rig): MKJ364 (P001245)
Hole Depth: 10.43m
EOH Reason: Target



Remarks

CPTu testing carried out to ASTM Standard D5778-12
10cm-sq Pagani piezocone used for each CPTu test
CPTu refusal at 50MPa on the tip, 500kPa on the friction sleeve or at 2500kPa pore pressure

Average Energy Transfer Ratio for the DPSH-B hammer on each rig:

P 001245: 95%
P 001249: 90%

Calibration performed on 4th November 2014

Created: 24/08/2018 6:55:04 AM

CPT TEST LOG

Job Number: 18255

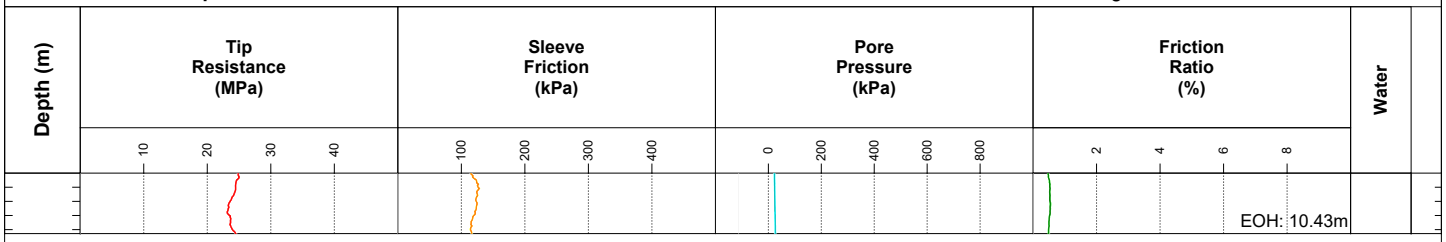
Client: Aurecon

Project: Prestons Park Stage 3

Test Label: CPTPF55

Site Location: Marshland, Christchurch
Test Date: 23/08/2018
Coordinates: CPTPF55, CPTPF55 (WGS84)
Supervisor: Kieran Foote

Operator: Edwin Diaz
Piezocone (Rig): MKJ364 (P001245)
Hole Depth: 10.43m
EOH Reason: Target



Remarks

CPTu testing carried out to ASTM Standard D5778-12
10cm-sq Pagani piezocone used for each CPTu test
CPTu refusal at 50MPa on the tip, 500kPa on the friction sleeve or at 2500kPa pore pressure

Average Energy Transfer Ratio for the DPSH-B hammer on each rig:

P 001245: 95%
P 001249: 90%

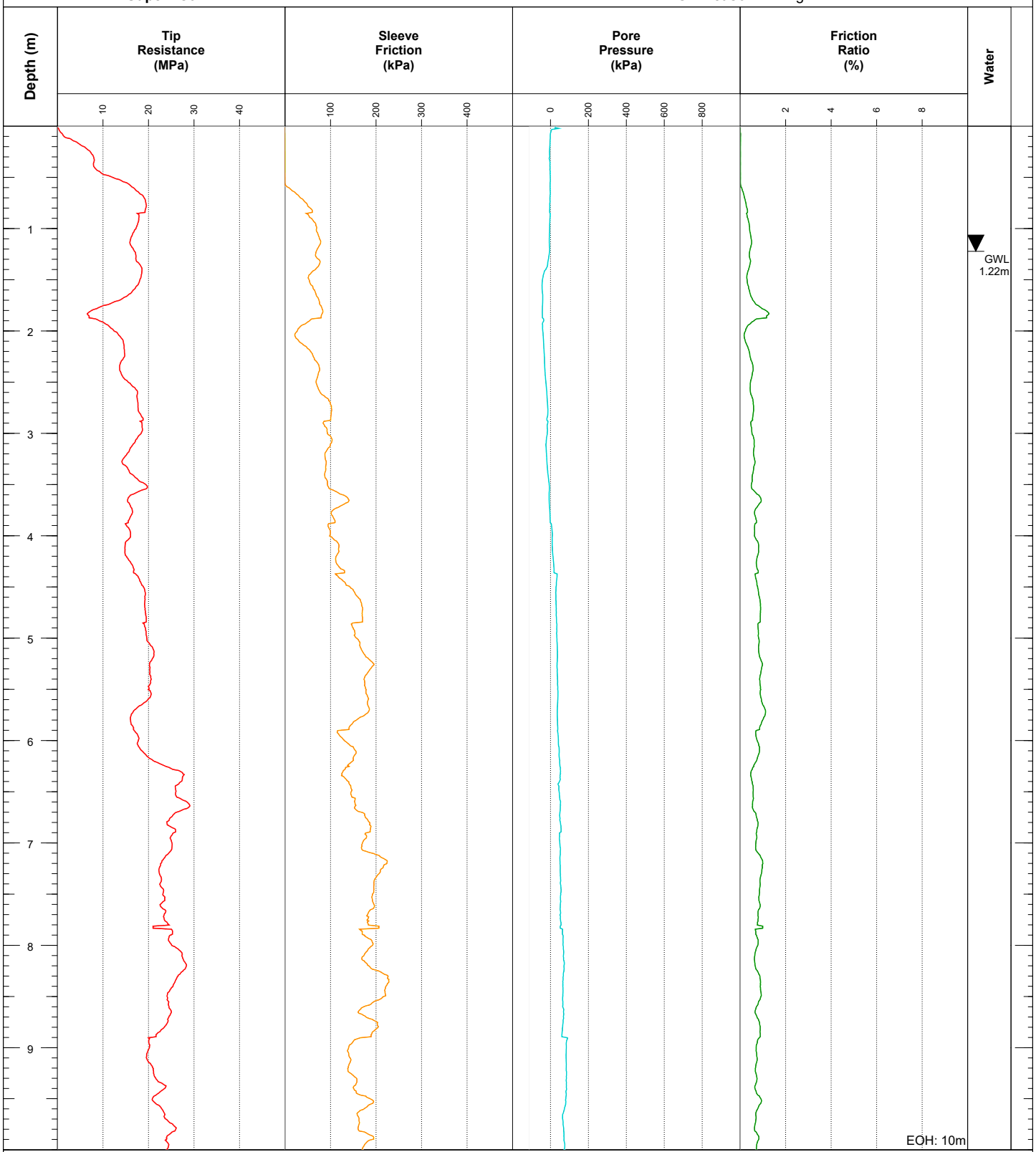
Calibration performed on 4th November 2014

Created: 24/08/2018 6:55:06 AM

CPT TEST LOG

Job Number:	18255
Client:	Aurecon
Project:	Prestons Park Stage 3
Test Label:	CPTPF56

Site Location:	Marshland, Christchurch	**Operator:**	Edwin Diaz
Test Date:	23/08/2018	**Piezocone (Rig):**	MKJ364 (P001245)
Coordinates:	CPTPF56, CPTPF56 (WGS84)	**Hole Depth:**	10m
Supervisor:	Kieran Foote	**EOH Reason:**	Target



Remarks

CPTu testing carried out to ASTM Standard D5778-12
10cm-sq Pagani piezocone used for each CPTu test
CPTu refusal at 50MPa on the tip, 500kPa on the friction sleeve or at 2500kPa pore pressure

Average Energy Transfer Ratio for the DPSH-B hammer on each rig:

P 001245: 95%
P 001249: 90%

Calibration performed on 4th November 2014

Created: 24/08/2018 6:55:37 AM

CPT TEST LOG

Job Number: 18255

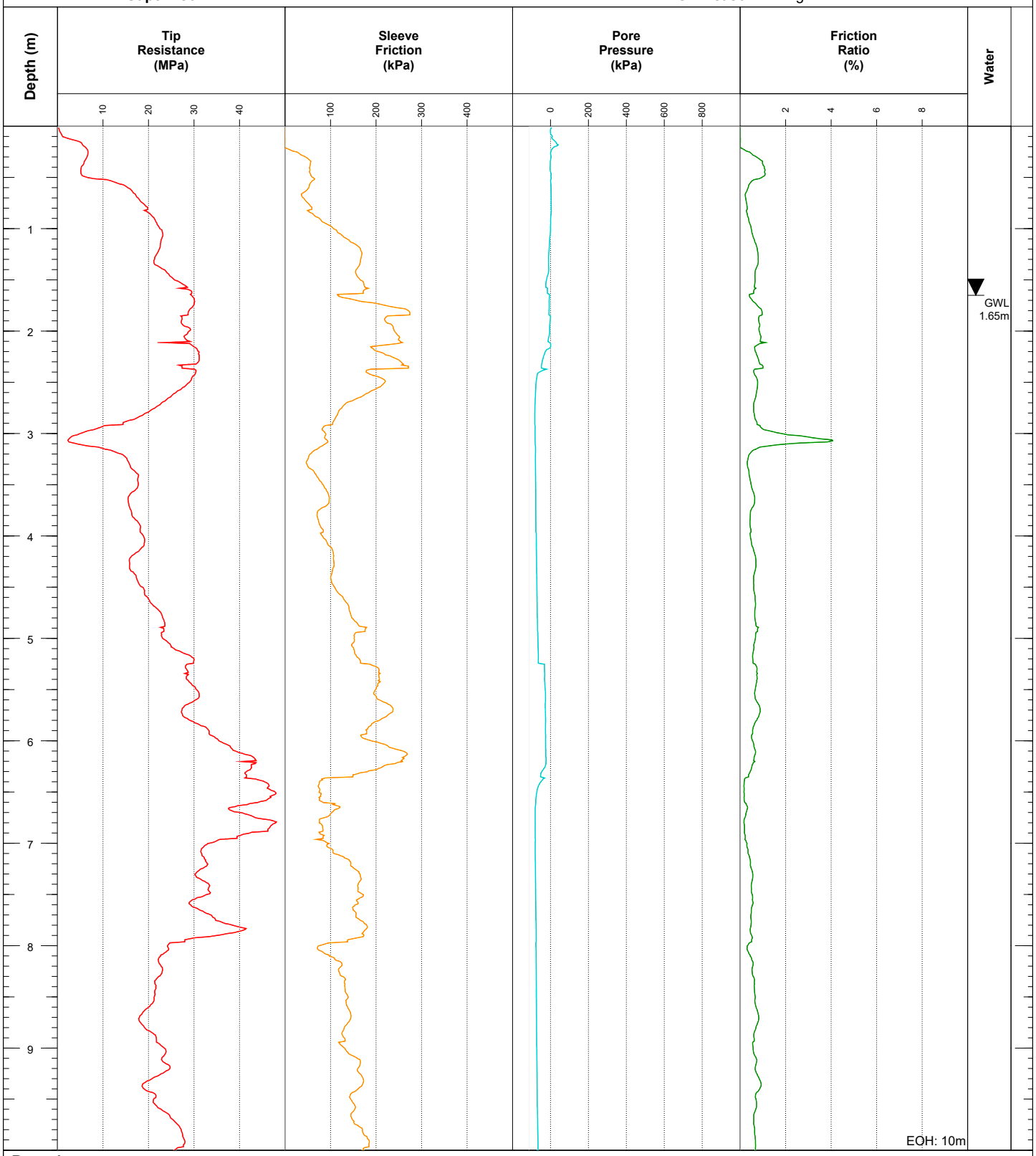
Client: Aurecon

Project: Prestons Park Stage 3

Test Label: CPTPF57

Site Location: Marshland, Christchurch
Test Date: 30/08/2018
Coordinates: CPTPF57, CPTPF57 (WGS84)
Supervisor: Kieran Foote

Operator: Edwin Diaz
Piezocone (Rig): MKJ364 (P001245)
Hole Depth: 10m
EOH Reason: Target



Remarks

CPTu testing carried out to ASTM Standard D5778-12
10cm-sq Pagani piezocone used for each CPTu test
CPTu refusal at 50MPa on the tip, 500kPa on the friction sleeve or at 2500kPa pore pressure

Average Energy Transfer Ratio for the DPSH-B hammer on each rig:

P 001245: 95%
P 001249: 90%

Calibration performed on 4th November 2014

Created: 3/09/2018 8:48:28 AM

CPT TEST LOG

Job Number: 19002

Client: Aurecon

Project: Preston Park 15_1_2019

Test Label: CPTPF61

Site Location: Christchurch

Test Date: 15/01/2019

Coordinates: -43.482648, 172.670572 (WGS84)

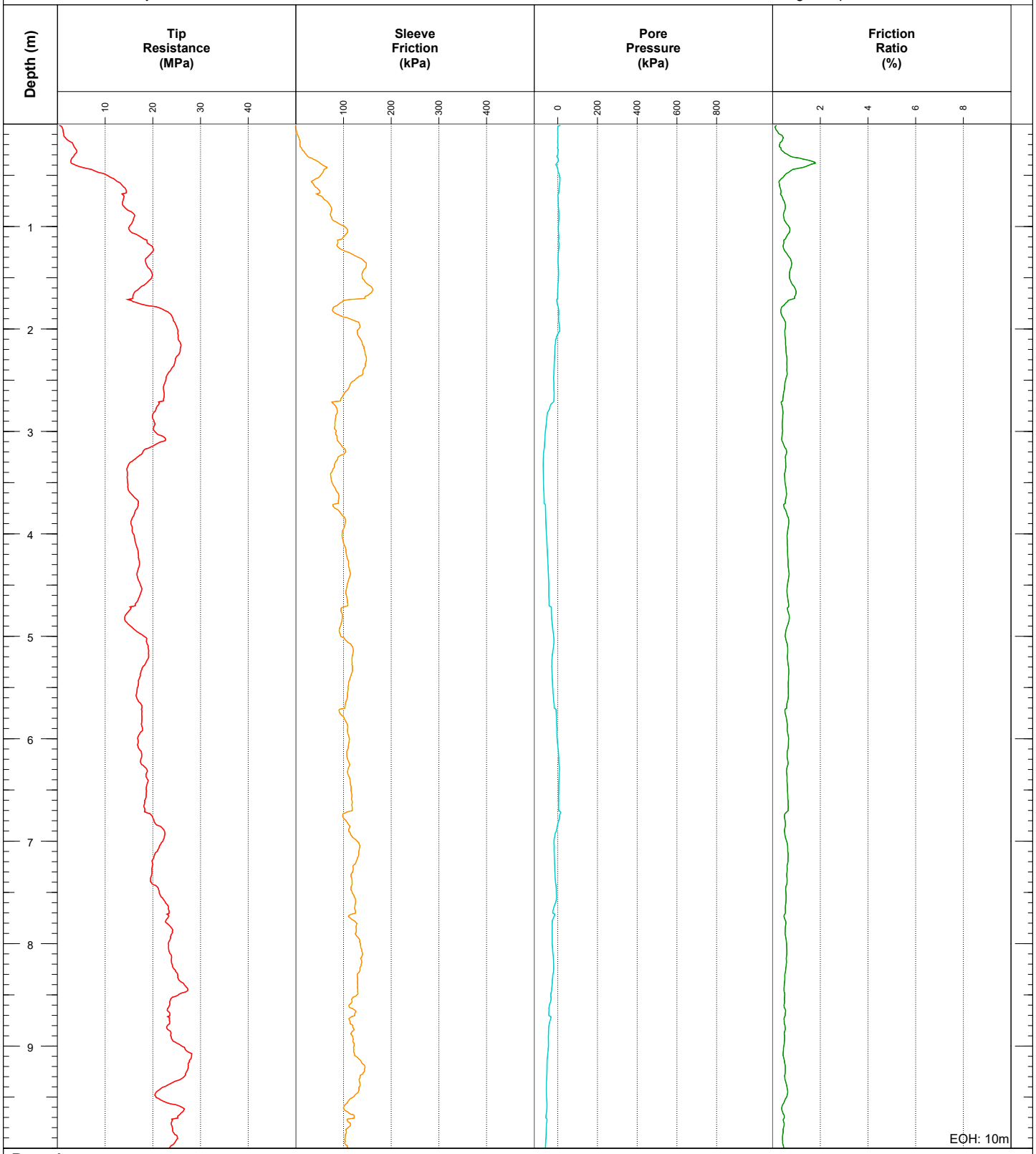
Supervisor: Kieran Foote

Operator:

Piezocone (Rig): MKJ327 (P001223)

Hole Depth: 10m

EOH Reason: Target Depth



Remarks

CPTu testing carried out to ASTM Standard D5778-12
10cm-sq Pagani piezocone used for each CPTu test
CPTu refusal at 50MPa on the tip, 500kPa on the friction sleeve or at 2500kPa pore pressure

Average Energy Transfer Ratio for the DPSH-B hammer on each rig:

P 001245: 95%
P 001249: 90%

Calibration performed on 4th November 2014

Created: 17/01/2019 3:24:23 PM

CPT TEST LOG

Job Number: 19002

Client: Aurecon

Project: Preston Park 15_1_2019

Test Label: CPTPF62

Site Location: Christchurch

Test Date: 15/01/2019

Coordinates: -43.483132, 172.66993 (WGS84)

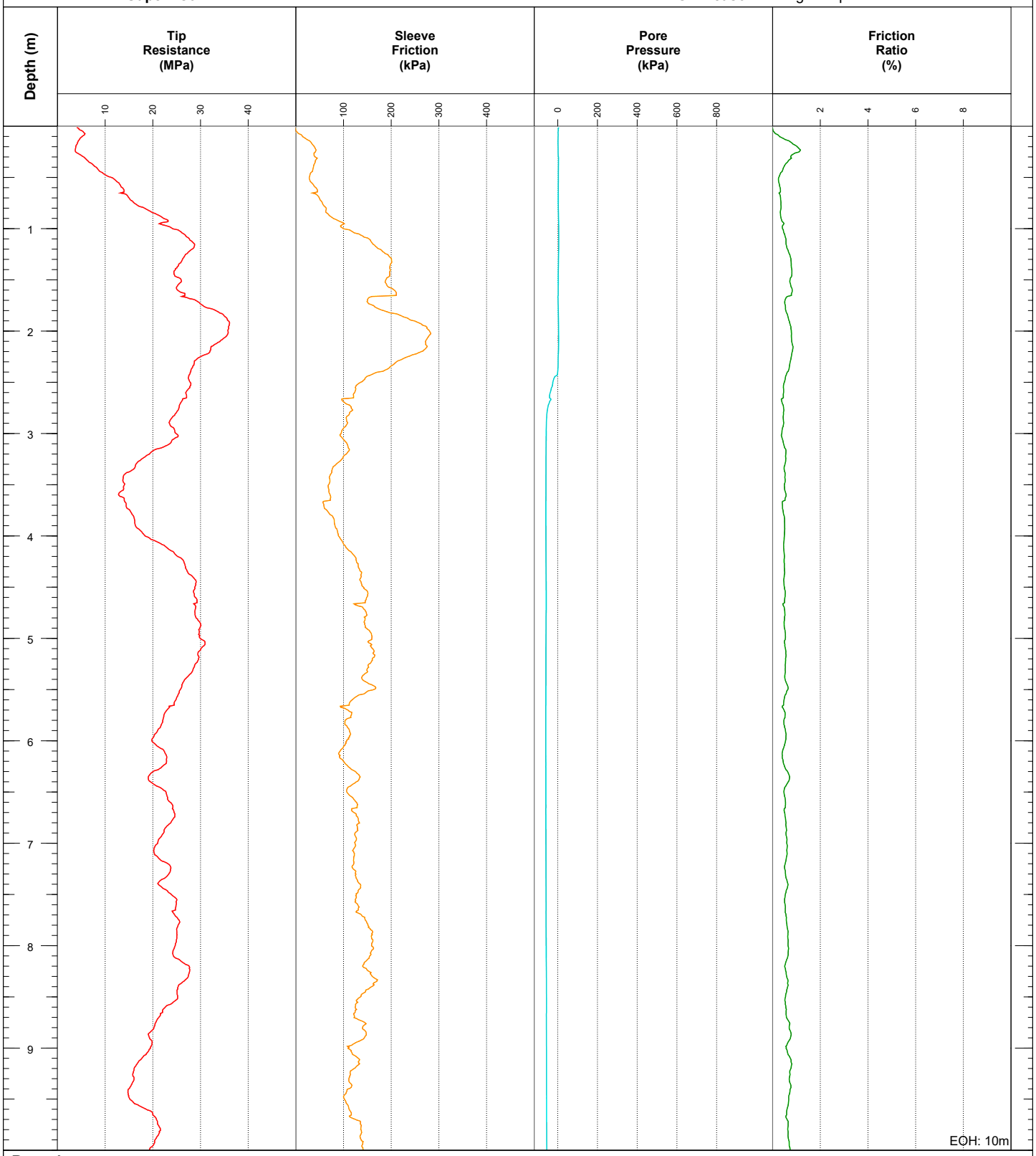
Supervisor: Kieran Foote

Operator:

Piezocone (Rig): MKJ364 (P001223)

Hole Depth: 10m

EOH Reason: Target Depth



Remarks

CPTu testing carried out to ASTM Standard D5778-12
10cm-sq Pagani piezocone used for each CPTu test
CPTu refusal at 50MPa on the tip, 500kPa on the friction sleeve or at 2500kPa pore pressure

Average Energy Transfer Ratio for the DPSH-B hammer on each rig:

P 001245: 95%
P 001249: 90%

Calibration performed on 4th November 2014

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CPT TEST LOG

Job Number: 19002

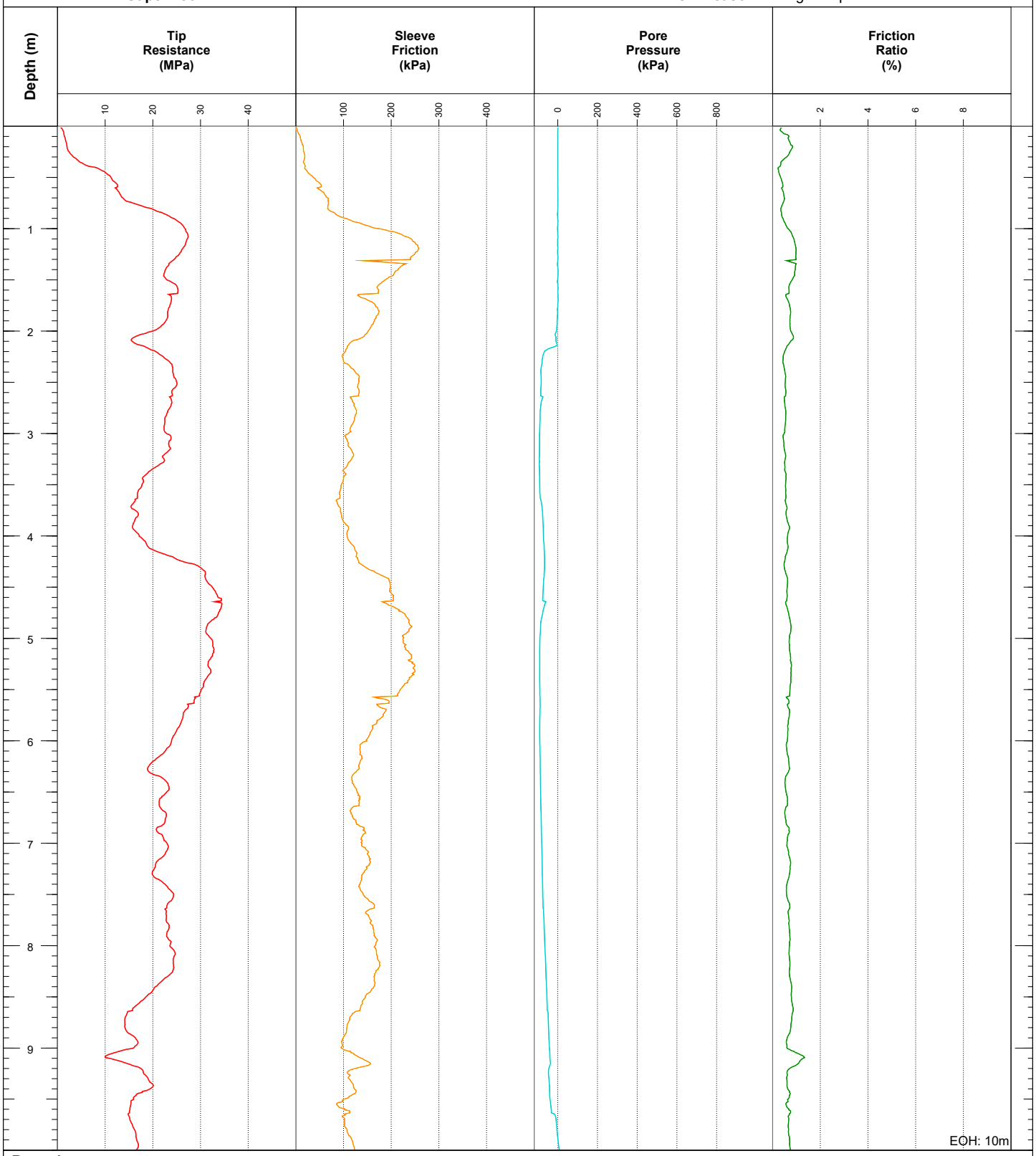
Client: Aurecon

Project: Preston Park 15_1_2019

Test Label: CPTPF63

Site Location: Christchurch
Test Date: 15/01/2019
Coordinates: -43.48361, 172.670188 (WGS84)
Supervisor: Kieran Foote

Operator:
Piezocone (Rig): MKJ327 (P001223)
Hole Depth: 10m
EOH Reason: Target Depth



Remarks

CPTu testing carried out to ASTM Standard D5778-12
10cm-sq Pagani piezocone used for each CPTu test
CPTu refusal at 50MPa on the tip, 500kPa on the friction sleeve or at 2500kPa pore pressure

Average Energy Transfer Ratio for the DPSH-B hammer on each rig:

P 001245: 95%
P 001249: 90%

Calibration performed on 4th November 2014

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CPT TEST LOG

Job Number: 19002

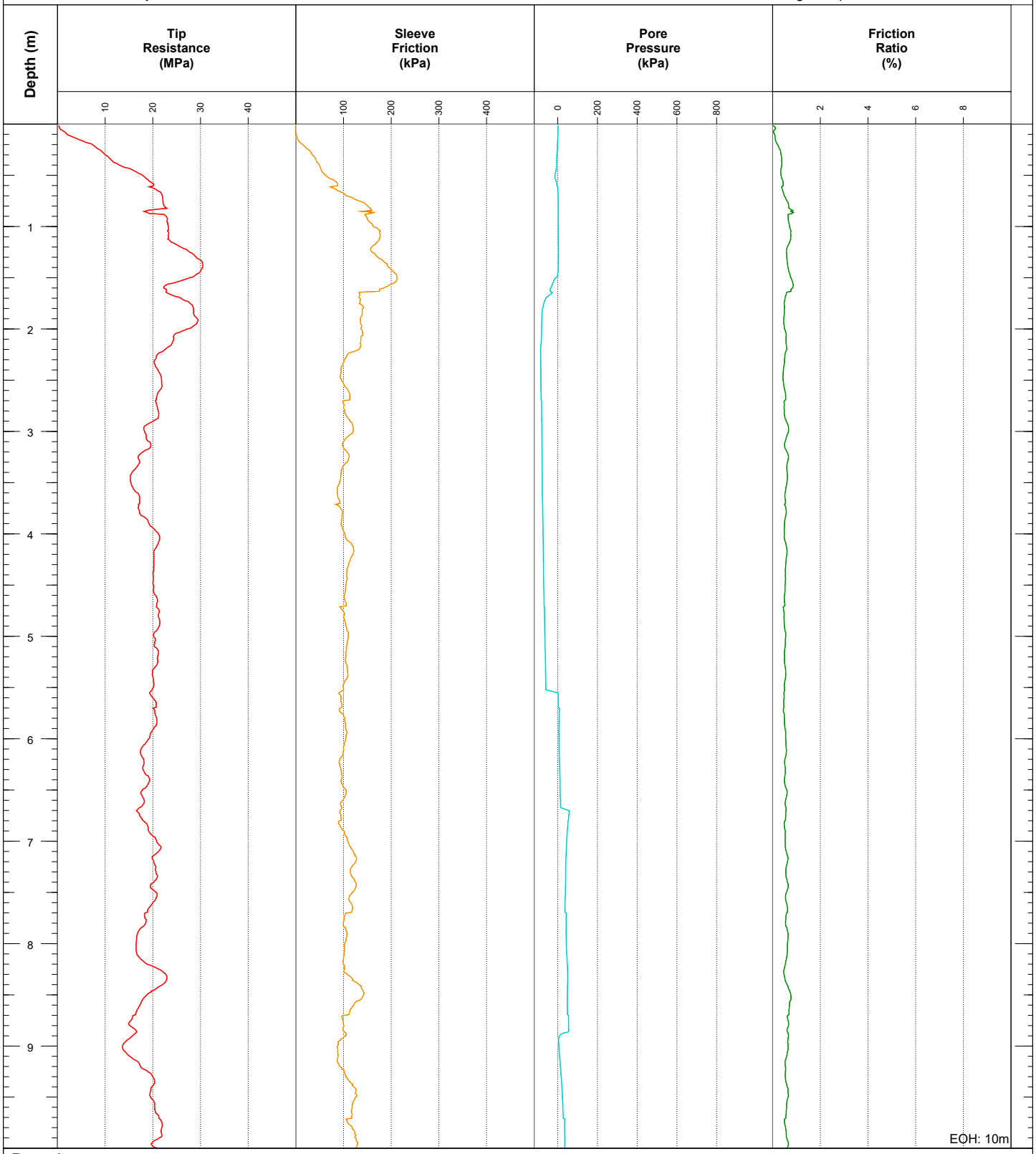
Client: Aurecon

Project: Preston Park 15_1_2019

Test Label: CPTPF64

Site Location: Christchurch
Test Date: 15/01/2019
Coordinates: -43.483168, 172.671018 (WGS84)
Supervisor: Kieran Foote

Operator:
Piezocone (Rig): MKJ327 (P001223)
Hole Depth: 10m
EOH Reason: Target Depth



Remarks

CPTu testing carried out to ASTM Standard D5778-12
10cm-sq Pagani piezocone used for each CPTu test
CPTu refusal at 50MPa on the tip, 500kPa on the friction sleeve or at 2500kPa pore pressure

Average Energy Transfer Ratio for the DPSH-B hammer on each rig:

P 001245: 95%
P 001249: 90%

Calibration performed on 4th November 2014

Created: 17/01/2019 3:26:34 PM

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