



# Appendix H

## NDM Test Results

**Project**    Prestons South Subdivision  
**Project No.**    235361  
**Date**    20/05/2016  
**Title**    Summary of Gravel Compaction Results

Note: All retest's have met the required compaction level.

Note: Not all labels are indicated on attached Figure 5 due to testing occuring in the same location.

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
25/06/2014	1425	1	36	812329	395381	U	2320	PIT RUN	1		98.8
		2	37	812297	395405	U	2320	PIT RUN	1		99.4
		3	38	812306	395384	U	2320	PIT RUN	1		98.5
		4	39	812336	395356	U	2320	PIT RUN	1		100.1
30/06/2014	1463	5	44	812306	395401	U	2320	PIT RUN	1		98.3
		6	45	812278	395412	U	2320	PIT RUN	1		98.2
		7	46	812266	395417	U	2320	PIT RUN	1		99.8
		8	47	812237	395421	U	2320	PIT RUN	1		98.2
3/07/2014	1498	5	55	812336	395356	U	2320	PIT RUN	2		98.5
		6	56	812329	395381	U	2320	PIT RUN	2		98.6
4/07/2014	1514	1	61	812293	395408	U	2340	PIT RUN	4	1566	93.9
		2	62	812278	395412	U	2340	PIT RUN	4	1566	94.7
		3	63	812266	395417	U	2340	PIT RUN	4	1566	96.1
		4	64	812254	395421	U	2340	PIT RUN	4	1566	96.6
9/07/2014	1566	1	65	812289	395393	U	2340	PIT RUN	3		99.5
		2	66	812278	395397	U	2340	PIT RUN	3		102.1
		3	67	812262	395402	U	2340	PIT RUN	3		99.1
		4	68	812251	395402	U	2340	PIT RUN	3		99.3
		5	69	812254	395421	U	2320	PIT RUN	4		100.2
		6	70	812266	395417	U	2320	PIT RUN	4		99.5
		7	71	812278	395412	U	2320	PIT RUN	4		99.9
		8	72	812293	395408	U	2320	PIT RUN	4		99.7
7/07/2014	1541	1	73	812302	395389	U	2340	PIT RUN	1		98.3
		2	74	812289	395393	U	2340	PIT RUN	1		98.2
		3	75	812278	395397	U	2340	PIT RUN	1		98.6
		4	76	812262	395402	U	2340	PIT RUN	1		99.4
7/07/2014	1540	1	77	812306	395401	U	2320	PIT RUN	3		98.6
		2	78	812297	395409	U	2320	PIT RUN	3		98.0
		3	79	812288	395409	U	2320	PIT RUN	3		98.1
		4	80	812278	395412	U	2320	PIT RUN	3		98.5
8/07/2014	1561	1	81	812311	395379	U	2340	PIT RUN	2		99.2
		2	82	812302	395389	U	2340	PIT RUN	2		98.6
		3	83	812289	395393	U	2340	PIT RUN	2		98.4

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		4	84	812278	395397	U	2340	PIT RUN	2		99.1
11/07/2014	1603	1	85	812306	395384	U	2340	PIT RUN	4		99.6
		2	86	812278	395397	U	2340	PIT RUN	4	1602	95.9
11/07/2014	1602	1	87	812311	395379	U	2340	PIT RUN	4		99.0
		2	88	812302	395389	U	2340	PIT RUN	4		98.8
		3	89	812289	395393	U	2340	PIT RUN	4		102.2
		4	90	812278	395397	U	2340	PIT RUN	4		103.1
14/07/2014	1620	5	95	812319	395371	U	2320	PIT RUN	4		98.5
		6	96	812337	395375	U	2320	PIT RUN	4		103.5
		7	97	812321	395390	U	2320	PIT RUN	4		99.1
		1	98	812336	395356	U	2340	PIT RUN	4		98.7
		2	99	812329	395381	U	2340	PIT RUN	4		100.7
		3	100	812302	395389	U	2340	PIT RUN	5		98.0
		4	101	812289	395393	U	2340	PIT RUN	5		98.2
16/07/2014	1642	5	102	812278	395397	U	2340	PIT RUN	5		99.0
		6	103	812262	395402	U	2340	PIT RUN	5		101.4
		7	104	812266	395417	U	2340	PIT RUN	5		98.5
		8	105	812278	395412	U	2340	PIT RUN	5		99.2
		9	106	812293	395408	U	2340	PIT RUN	5		98.0
		10	107	812306	395401	U	2340	PIT RUN	5		99.0
17/07/2014	1649	1	112	812302	395389	U	2320	PIT RUN	6		98.5
		2	113	812289	395393	U	2320	PIT RUN	6		102.1
		3	114	812278	395397	U	2320	PIT RUN	6		98.9
		4	115	812262	395402	U	2320	PIT RUN	6		98.8
		5	116	812336	395356	U	2320	PIT RUN	5		98.8
		6	117	812319	395371	U	2320	PIT RUN	5		98.1
		7	118	812329	395381	U	2320	PIT RUN	5		99.0
		8	119	812306	395401	U	2320	PIT RUN	6		98.5
		9	120	812293	395408	U	2320	PIT RUN	6		98.6
		10	121	812278	395412	U	2320	PIT RUN	6		98.2
		11	122	812266	395417	U	2320	PIT RUN	6		99.3
28/07/2014	1728	1	123	812298	395390	U	2340	PIT RUN	1		99.4
		2	124	812294	395391	U	2340	PIT RUN	1		100.6
		3	125	812285	395395	U	2340	PIT RUN	1		99.9
		4	126	812258	395402	U	2340	PIT RUN	1		98.7
25/07/2014	1712	1	127	812334	395380	U	2340	PIT RUN	3		98.3
		2	128	812336	395356	U	2340	PIT RUN	3		99.4
		3	129	812311	395379	U	2340	PIT RUN	4		98.6
		4	130	812298	395390	U	2340	PIT RUN	4		99.1
		5	131	812294	395391	U	2340	PIT RUN	4		98.4

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		6	132	812285	395395	U	2340	PIT RUN	4		98.8
28/07/2014	1727	1	133	812334	395380	U	2340	PIT RUN	4		98.3
		2	134	812321	395390	U	2340	PIT RUN	4		99.4
21/07/2014	1665	1	135	812311	395379	U	2320	PIT RUN	6		100.7
		2	136	812313	395400	U	2320	PIT RUN	6		98.6
		3	137	812301	395403	U	2320	PIT RUN	6		99.1
		4	138	812293	395408	U	2320	PIT RUN	7		99.0
		5	139	812278	395412	U	2320	PIT RUN	7		100.6
		6	140	812266	395417	U	2320	PIT RUN	7		99.6
		7	141	812254	395421	U	2320	PIT RUN	7		98.2
		8	142	812251	395396	U	2320	PIT RUN	7		98.2
		9	143	812262	395402	U	2320	PIT RUN	7		98.0
		10	144	812278	395397	U	2320	PIT RUN	7		99.0
		11	145	812289	395393	U	2320	PIT RUN	7		99.4
23/07/2014	1686	1	146	812249	395421	U	2340	PIT RUN	2		99.6
		2	147	812227	395421	U	2340	PIT RUN	2		99.0
		3	148	812202	395424	U	2340	PIT RUN	2		98.0
		4	149	812183	395425	U	2340	PIT RUN	2		99.5
		5	150	812271	395414	U	2340	PIT RUN	1		99.0
		6	151	812271	395399	U	2340	PIT RUN	1		99.4
24/07/2014	1690	1	152	812329	395381	U	2320	PIT RUN	7		98.2
		2	153	812319	395371	U	2320	PIT RUN	7		99.6
		3	154	812336	395356	U	2320	PIT RUN	7		99.8
		4	155	812288	395409	U	2340	PIT RUN	2		98.5
		5	156	812271	395399	U	2340	PIT RUN	2		99.3
		6	157	812266	395417	U	2340	PIT RUN	3		99.3
		7	158	812249	395421	U	2340	PIT RUN	3		98.3
		8	159	812227	395421	U	2340	PIT RUN	3		98.1
		9	160	812217	395423	U	2340	PIT RUN	3		98.7
		10	161	812202	395424	U	2340	PIT RUN	3		98.9
30/07/2014	1745	1	162	812258	395402	U	2340	PIT RUN	2		98.5
		2	163	812241	395405	U	2340	PIT RUN	2		98.4
		3	164	812223	395404	U	2340	PIT RUN	2		98.7
		4	165	812199	395412	U	2340	PIT RUN	2		99.1
		5	166	812271	395414	U	2340	PIT RUN	5		98.4
		6	167	812285	395395	U	2340	PIT RUN	5		98.2
31/07/2014	1760	1	168	812258	395402	U	2340	PIT RUN	3		98.4
		2	169	812241	395405	U	2340	PIT RUN	3		99.7
		3	170	812223	395404	U	2340	PIT RUN	3		98.3
		4	171	812199	395412	U	2340	PIT RUN	3		98.9

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
1/08/2014	1775	1	172	812258	395402	U	2340	PIT RUN	4		98.0
		2	173	812241	395405	U	2340	PIT RUN	4		98.1
		3	174	812223	395404	U	2340	PIT RUN	4		98.8
		4	175	812199	395412	U	2340	PIT RUN	4		98.8
4/08/2014	1795	1	176	812336	395356	U	2320	PIT RUN	8		98.7
		2	177	812345	395362	U	2320	PIT RUN	8		100.4
		3	178	812345	395374	U	2320	PIT RUN	8		98.7
		8	183	812329	395381	U	2320	PIT RUN	8		98.1
		9	184	812321	395390	U	2320	PIT RUN	8		100.3
		10	185	812313	395400	U	2320	PIT RUN	8		99.3
		11	186	812301	395403	U	2320	PIT RUN	8		98.0
		12	187	812289	395393	U	2320	PIT RUN	8		98.0
		13	188	812302	395389	U	2320	PIT RUN	8		98.4
		14	189	812311	395379	U	2320	PIT RUN	8		99.8
		15	190	812319	395371	U	2320	PIT RUN	8		99.4
		16	191	812271	395399	U	2320	PIT RUN	4		99.2
		17	192	812241	395405	U	2320	PIT RUN	4		98.1
		18	193	812223	395404	U	2320	PIT RUN	4		100.3
		19	194	812199	395412	U	2320	PIT RUN	4		99.0
6/08/2014	1817	1	195	812202	395424	U	2320	PIT RUN	5		98.3
		2	196	812227	395421	U	2320	PIT RUN	5		98.1
		3	197	812237	395421	U	2320	PIT RUN	5		98.0
		4	198	812249	395421	U	2320	PIT RUN	5		98.1
7/08/2014	1834	1	199	812176	395415	U	2340	PIT RUN	1		99.5
		2	200	812159	395426	U	2340	PIT RUN	1		98.1
9/08/2014	1885	1	201	812176	395415	U	2340	PIT RUN	2		99.1
		2	202	812159	395426	U	2340	PIT RUN	2		99.9
		3	203	812199	395412	U	2340	PIT RUN	5		98.1
		4	204	812223	395404	U	2340	PIT RUN	5		98.5
		5	205	812241	395405	U	2340	PIT RUN	5		98.8
		6	206	812271	395399	U	2340	PIT RUN	5		100.2
		7	207	812249	395421	U	2320	PIT RUN	6		98.3
		8	208	812237	395421	U	2320	PIT RUN	6		98.1
		9	209	812227	395421	U	2320	PIT RUN	6		98.2
		10	210	812202	395424	U	2320	PIT RUN	6		98.1
11/08/2014	1892	1	211	812202	395424	U	2340	PIT RUN	7		98.2
		2	212	812227	395421	U	2340	PIT RUN	7		98.2
		3	213	812237	395421	U	2340	PIT RUN	7		98.9
		4	214	812249	395421	U	2340	PIT RUN	7		98.2
22/07/2014	1676	1	215	812249	395421	U	2320	PIT RUN	1		98.8

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		2	216	812227	395421	U	2320	PIT RUN	1		98.0
		3	217	812217	395423	U	2320	PIT RUN	1		99.0
		4	218	812202	395424	U	2320	PIT RUN	1		98.5
12/08/2014	1905	1	219	812202	395424	U	2340	PIT RUN	8		98.0
		2	220	812227	395421	U	2340	PIT RUN	8		98.0
		3	221	812237	395421	U	2340	PIT RUN	8		98.0
		4	222	812249	395421	U	2340	PIT RUN	8		98.4
		5	223	812176	395415	U	2320	PIT RUN	3		98.4
		6	224	812159	395426	U	2320	PIT RUN	3		98.0
		7	225	812294	395391	U	2320	PIT RUN	6		98.1
		8	226	812288	395409	U	2320	PIT RUN	6		98.0
13/08/2014	1920	1	227	812294	395391	U	2340	PIT RUN	7		100.6
		2	228	812288	395409	U	2340	PIT RUN	7		98.0
		3	229	812176	395415	U	2340	PIT RUN	4		98.3
		4	230	812159	395426	U	2340	PIT RUN	4		99.0
14/08/2014	1935	1	231	812271	395399	U	2340	PIT RUN	6		98.1
		2	232	812241	395405	U	2340	PIT RUN	6		98.3
		3	233	812223	395404	U	2340	PIT RUN	6		98.1
		4	234	812199	395412	U	2340	PIT RUN	6		98.7
		5	235	812176	395415	U	2340	PIT RUN	5		98.6
		6	236	812159	395426	U	2340	PIT RUN	5		98.0
26/08/2014	2029	1	263	812176	395415	U	2320	PIT RUN	7		99.3
		2	264	812159	395426	U	2320	PIT RUN	7		100.7
		3	265	812199	395412	U	2320	PIT RUN	7		101.9
		4	266	812223	395404	U	2320	PIT RUN	7		98.4
		5	267	812241	395405	U	2320	PIT RUN	7		100.4
		6	268	812271	395399	U	2320	PIT RUN	7		99.9
27/08/2014	2039	6	284	812271	395399	U	2340	PIT RUN	8		98.3
		7	285	812241	395405	U	2340	PIT RUN	8		98.1
		8	286	812223	395404	U	2340	PIT RUN	8		98.3
		9	287	812199	395412	U	2340	PIT RUN	8		98.2
		5	310	812159	395426	U	2340	PIT RUN	6		98.2
		6	311	812176	395415	U	2340	PIT RUN	6		99.1
4/07/2014	1513	1	401	812319	395371	U	2340	PIT RUN	3	1604	93.7
		2	402	812321	395390	U	2340	PIT RUN	3	1604	94.6
11/07/2014	1604	1	403	812319	395371	U	2340	PIT RUN	3		98.8
		2	404	812321	395390	U	2340	PIT RUN	3		99.0
		3	405	812317	395394	U	2340	PIT RUN	3		100.4
1/07/2014	1480	9	414	812342	395372	U	2320	PIT RUN	2		98.7
		10	415	812337	395375	U	2320	PIT RUN	2		99.1

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		11	416	812321	395390	U	2320	PIT RUN	2		99.4
		12	417	812313	395400	U	2320	PIT RUN	2		99.1
28/09/2015	2554	1	1056	812142.218	395426.354	U	2340	PIT RUN	1		100.0
		2	1057	812127.249	395425.229	U	2340	PIT RUN	1		99.0
		3	1058	812103.078	395427.724	U	2340	PIT RUN	1		98.0
		4	1059	812075.166	395430.919	U	2340	PIT RUN	1		98.0
		5	1060	812059.286	395431.395	U	2340	PIT RUN	1		98.0
29/09/2015	2577	1	1061	812142.218	395426.354	U	2340	PIT RUN	2		99.0
		2	1062	812127.249	395425.229	U	2340	PIT RUN	2		100.0
		3	1063	812103.078	395427.724	U	2340	PIT RUN	2		99.0
		4	1064	812075.166	395430.919	U	2340	PIT RUN	2		99.0
		5	1065	812059.286	395431.395	U	2340	PIT RUN	2		99.0
1/10/2015	2595	1	1066	812042.079	395436.452	U	2340	PIT RUN	1		99.0
		2	1067	812027.107	395447.489	U	2340	PIT RUN	1		101.0
		3	1068	812016.188	395458.82	U	2340	PIT RUN	1		100.0
		4	1069	812003.777	395470.486	U	2340	PIT RUN	1		99.0
		5	1070	811994.726	395479.045	U	2340	PIT RUN	1		99.0
2/10/2015	2611	1	1071	812042.079	395436.452	U	2340	PIT RUN	2		99.0
		2	1072	812027.107	395447.489	U	2340	PIT RUN	2		100.0
		3	1073	812016.188	395458.82	U	2340	PIT RUN	2		98.0
		4	1074	812003.777	395470.486	U	2340	PIT RUN	2		98.0
		5	1075	811994.726	395479.045	U	2340	PIT RUN	2		98.0
		6	1076	812059.286	395431.395	U	2340	PIT RUN	3		100.0
		7	1077	812075.166	395430.919	U	2340	PIT RUN	3		99.0
		8	1078	812103.078	395427.724	U	2340	PIT RUN	3		99.0
		9	1079	812127.249	395425.229	U	2340	PIT RUN	3		99.0
		10	1080	812142.218	395426.354	U	2340	PIT RUN	3		99.0
2/10/2015	2631	1	1081	812042.079	395436.452	U	2340	PIT RUN	3		98.0
		2	1082	812027.107	395447.489	U	2340	PIT RUN	3		101.0
		3	1083	812016.188	395458.82	U	2340	PIT RUN	3		101.0
		4	1084	812003.777	395470.486	U	2340	PIT RUN	3		100.0
		5	1085	811994.726	395479.045	U	2340	PIT RUN	3		99.0
5/10/2015	2632	1	1086	811994.726	395479.045	U	2340	PIT RUN	4		100.0
		2	1087	812003.777	395470.486	U	2340	PIT RUN	4		102.0
		3	1088	812016.188	395458.82	U	2340	PIT RUN	4		98.0
		4	1089	812027.107	395447.489	U	2340	PIT RUN	4		99.0
		5	1090	812042.079	395436.452	U	2340	PIT RUN	4		100.0
		6	1091	812059.286	395431.395	U	2340	PIT RUN	4		99.0
		7	1092	812075.166	395430.919	U	2340	PIT RUN	4		98.0
		8	1093	812103.078	395427.724	U	2340	PIT RUN	4		100.0

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		9	1094	812127.249	395425.229	U	2340	PIT RUN	4		101.0
		10	1095	812142.218	395426.354	U	2340	PIT RUN	4		100.0
8/10/2015	2691	1	1096	811994.726	395479.045	U	2340	PIT RUN	7		99.0
		2	1097	812003.777	395470.486	U	2340	PIT RUN	7		98.0
		3	1098	812016.188	395458.82	U	2340	PIT RUN	7		100.0
		4	1099	812027.107	395447.489	U	2340	PIT RUN	7		99.0
		5	1100	812042.079	395436.452	U	2340	PIT RUN	7		98.0
12/10/2015	2724	1	1101	811994.726	395479.045	U	2340	PIT RUN	8		99.0
		2	1102	812003.777	395470.486	U	2340	PIT RUN	8		102.0
		3	1103	812016.188	395458.82	U	2340	PIT RUN	8		101.0
		4	1104	812027.107	395447.489	U	2340	PIT RUN	8		99.0
		5	1105	812042.079	395436.452	U	2340	PIT RUN	8		102.0
		6	1106	812059.286	395431.395	U	2340	PIT RUN	6		102.0
		7	1107	812075.166	395430.919	U	2340	PIT RUN	6		99.0
		8	1108	812103.078	395427.724	U	2340	PIT RUN	6		101.0
		9	1109	812127.249	395425.229	U	2340	PIT RUN	6		98.0
		10	1110	812142.218	395426.354	U	2340	PIT RUN	6		100.0
14/10/2015	2731	1	1111	811982.503	395471.766	U	2340	PIT RUN	1		100.0
		2	1112	811995.259	395457.972	U	2340	PIT RUN	1		100.0
		3	1113	812005.996	395447.939	U	2340	PIT RUN	1		101.0
		4	1114	812018.672	395438.277	U	2340	PIT RUN	1		99.0
		5	1115	812035.693	395421.627	U	2340	PIT RUN	1		101.0
14/10/2015	2741	1	1116	811982.503	395471.766	U	2340	PIT RUN	2		101.0
		2	1117	811995.259	395457.972	U	2340	PIT RUN	2		99.0
		3	1118	812005.996	395447.939	U	2340	PIT RUN	2		101.0
		4	1119	812018.672	395438.277	U	2340	PIT RUN	2		99.0
		5	1120	812035.693	395421.627	U	2340	PIT RUN	2		102.0
16/10/2015	2777	1	1121	811982.503	395471.766	U	2340	PIT RUN	3		101.0
		2	1122	811995.259	395457.972	U	2340	PIT RUN	3		100.0
		3	1123	812005.996	395447.939	U	2340	PIT RUN	3		100.0
		4	1124	812018.672	395438.277	U	2340	PIT RUN	3		100.0
		5	1125	812035.693	395421.627	U	2340	PIT RUN	3		98.0
19/10/2015	2778	1	1126	811982.503	395471.766	U	2340	PIT RUN	4		100.0
		2	1127	811995.259	395457.972	U	2340	PIT RUN	4		99.0
		3	1128	812005.996	395447.939	U	2340	PIT RUN	4		100.0
		4	1129	812018.672	395438.277	U	2340	PIT RUN	4		100.0
		5	1130	812035.693	395421.627	U	2340	PIT RUN	4		99.0
		6	1131	812052.462	395416.95	U	2340	PIT RUN	1		99.0
		7	1132	812073.621	395416.799	U	2340	PIT RUN	1		102.0
		8	1133	812108.012	395412.876	U	2340	PIT RUN	1		98.0



DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		9	1134	812132.609	395410.738	U	2340	PIT RUN	1		101.0
		10	1135	812153.39	395412.282	U	2340	PIT RUN	1		98.0
21/10/2015	2829	1	1136	811982.503	395471.766	U	2340	PIT RUN	5		98.0
		2	1137	811995.259	395457.972	U	2340	PIT RUN	5		100.0
		3	1138	812005.996	395447.939	U	2340	PIT RUN	5		98.0
		4	1139	812018.672	395438.277	U	2340	PIT RUN	5		99.0
		5	1140	812035.693	395421.627	U	2340	PIT RUN	5		99.0
		6	1141	812052.462	395416.95	U	2340	PIT RUN	2		99.0
		7	1142	812073.621	395416.799	U	2340	PIT RUN	2		98.0
		8	1143	812108.012	395412.876	U	2340	PIT RUN	2		100.0
		9	1144	812132.609	395410.738	U	2340	PIT RUN	2		99.0
		10	1145	812153.39	395412.282	U	2340	PIT RUN	2		103.0
27/10/2015	2872	1	1146	811982.503	395471.766	U	2340	PIT RUN	6		99.0
		2	1147	811995.259	395457.972	U	2340	PIT RUN	6		99.0
		3	1148	812005.996	395447.939	U	2340	PIT RUN	6		99.0
		4	1149	812018.672	395438.277	U	2340	PIT RUN	6		101.0
		5	1150	812035.693	395421.627	U	2340	PIT RUN	6		99.0
		6	1151	812052.462	395416.95	U	2340	PIT RUN	3		100.0
		7	1152	812073.621	395416.799	U	2340	PIT RUN	3		101.0
		8	1153	812108.012	395412.876	U	2340	PIT RUN	3		102.0
		9	1154	812132.609	395410.738	U	2340	PIT RUN	3		99.0
		10	1155	812153.39	395412.282	U	2340	PIT RUN	3		102.0
3/11/2015	2922	1	1156	811982.503	395471.766	U	2340	PIT RUN	7		99.0
		2	1157	811995.259	395457.972	U	2340	PIT RUN	7		100.0
		3	1158	812005.996	395447.939	U	2340	PIT RUN	7		98.0
		4	1159	812018.672	395438.277	U	2340	PIT RUN	7		101.0
		5	1160	812035.693	395421.627	U	2340	PIT RUN	7		100.0
		6	1161	812052.462	395416.95	U	2340	PIT RUN	4		101.0
		7	1162	812073.621	395416.799	U	2340	PIT RUN	4		101.0
		8	1163	812108.012	395412.876	U	2340	PIT RUN	4		99.0
		9	1164	812132.609	395410.738	U	2340	PIT RUN	4		100.0
		10	1165	812153.39	395412.282	U	2340	PIT RUN	4		101.0
18/11/2015	3143	1	1166	811982.503	395471.766	U	2340	PIT RUN	8		100.0
		2	1167	811995.259	395457.972	U	2340	PIT RUN	8		101.0
		3	1168	812005.996	395447.939	U	2340	PIT RUN	8		101.0
		4	1169	812018.672	395438.277	U	2340	PIT RUN	8		101.0
		5	1170	812035.693	395421.627	U	2340	PIT RUN	8		102.0
		6	1171	812052.462	395416.95	U	2340	PIT RUN	5		100.0
		7	1172	812073.621	395416.799	U	2340	PIT RUN	5		100.0
		8	1173	812108.012	395412.876	U	2340	PIT RUN	5		99.0

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		9	1174	812132.609	395410.738	U	2340	PIT RUN	5		99.0
		10	1175	812153.39	395412.282	U	2340	PIT RUN	5		102.0
27/11/2015	3287	1	1176	812153.39	395412.282	U	2340	PIT RUN	6		98.0
		2	1177	812132.609	395410.738	U	2340	PIT RUN	6		102.0
		3	1178	812108.012	395412.876	U	2340	PIT RUN	6		98.0
		4	1179	812073.621	395416.799	U	2340	PIT RUN	6		99.0
		5	1180	812052.462	395416.95	U	2340	PIT RUN	6		101.0
		6	1181	812035.693	395421.627	U	2340	PIT RUN	9		100.0
		7	1182	812018.672	395438.277	U	2340	PIT RUN	9		101.0
		8	1183	812005.996	395447.939	U	2340	PIT RUN	9		99.0
		9	1184	811995.259	395457.972	U	2340	PIT RUN	9		101.0
		10	1185	811982.503	395471.766	U	2340	PIT RUN	9		102.0
26/01/2016	125	1	1186	812103.078	395427.724	U	2340	PIT RUN	7		99.0
		2	1187	812075.166	395430.919	U	2340	PIT RUN	7		98.0
		3	1188	812059.286	395431.395	U	2340	PIT RUN	7		98.0
27/01/2016	133	1	1189	812153.39	395412.282	U	2280	PIT RUN	8		104.0
		2	1190	812132.609	395410.738	U	2280	PIT RUN	8		107.0
		3	1191	812108.012	395412.876	U	2280	PIT RUN	8		103.0
		4	1192	812073.621	395416.799	U	2280	PIT RUN	8		105.0
		5	1193	812052.462	395416.95	U	2280	PIT RUN	8		105.0
		6	1194	812035.693	395421.627	U	2280	PIT RUN	11		106.0
		7	1195	812018.672	395438.277	U	2280	PIT RUN	11		104.0
		8	1196	812005.996	395447.939	U	2280	PIT RUN	11		105.0
		9	1197	811995.259	395457.972	U	2280	PIT RUN	11		105.0
		10	1198	811982.503	395471.766	U	2280	PIT RUN	11		104.0
		11	1199	811994.726	395479.045	U	2280	PIT RUN	8		103.0
		12	1200	812003.777	395470.486	U	2280	PIT RUN	8		102.0
		13	1201	812016.188	395458.82	U	2280	PIT RUN	8		104.0
		14	1202	812027.107	395447.489	U	2280	PIT RUN	8		103.0
		15	1203	812042.079	395436.452	U	2280	PIT RUN	8		101.0
		16	1204	812059.286	395431.395	U	2280	PIT RUN	11		106.0
		17	1205	812075.166	395430.919	U	2280	PIT RUN	11		105.0
		20	1208	812142.218	395426.354	U	2280	PIT RUN	11		104.0
3/12/2015	3350	1	1209	811982.503	395471.766	U	2340	PIT RUN	10		101.0
		2	1210	811995.259	395457.972	U	2340	PIT RUN	10		99.0
		3	1211	812005.996	395447.939	U	2340	PIT RUN	10		100.0
		4	1212	812018.672	395438.277	U	2340	PIT RUN	10		102.0
		5	1213	812035.693	395421.627	U	2340	PIT RUN	10		99.0
		6	1214	812052.462	395416.95	U	2340	PIT RUN	7		100.0
		7	1215	812073.621	395416.799	U	2340	PIT RUN	7		101.0

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		8	1216	812108.012	395412.876	U	2340	PIT RUN	7		99.0
		9	1217	812132.609	395410.738	U	2340	PIT RUN	7		98.0
		10	1218	812153.39	395412.282	U	2340	PIT RUN	7		100.0
10/12/2015	3434	1	1219	811994.726	395479.045	U	2340	PIT RUN	10		99.0
		2	1220	812003.777	395470.486	U	2340	PIT RUN	10		100.0
		3	1221	812016.188	395458.82	U	2340	PIT RUN	10		99.0
		4	1222	812027.107	395447.489	U	2340	PIT RUN	10		98.0
		5	1223	812042.079	395436.452	U	2340	PIT RUN	10		99.0
4/12/2015	3364	1	1224	811994.726	395479.045	U	2340	PIT RUN	9		99.0
		2	1225	812003.777	395470.486	U	2340	PIT RUN	9		99.0
		3	1226	812016.188	395458.82	U	2340	PIT RUN	9		100.0
		4	1227	812027.107	395447.489	U	2340	PIT RUN	9		100.0
		5	1228	812042.079	395436.452	U	2340	PIT RUN	9		100.0
		6	1229	812059.286	395431.395	U	2340	PIT RUN	7		99.0
		7	1230	812075.166	395430.919	U	2340	PIT RUN	7		101.0
		8	1231	812103.078	395427.724	U	2340	PIT RUN	7		100.0
		9	1232	812127.249	395425.229	U	2340	PIT RUN	7		101.0
		10	1233	812142.218	395426.354	U	2340	PIT RUN	7		99.0
9/12/2015	3429	1	1234	811994.726	395479.045	U	2340	PIT RUN	10		99.0
		2	1235	812003.777	395470.486	U	2340	PIT RUN	10		98.0

**Project**           Prestons South Subdivision  
**Project No.**        235361  
**Date**                20/05/2016  
**Title**                Summary of Sand Compaction Results

Note: All retest's have met the required compaction level.

Note: Not all labels are indicated on attached Figure 5 due to testing occuring in the same location.

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		3	138	812305	395132	O	1620	SAND	1		102.7
		4	139	812304	395109	O	1620	SAND	1		101.3
21/05/2014	1175	64	197	812304	395109	O	1620	SAND	2		98.9
30/05/2014	1270	1	233	812265	395247	O	1640	SAND	1		99.5
		2	234	812278	395246	O	1640	SAND	1		100.3
		3	235	812294	395244	O	1640	SAND	1		99.3
4/06/2014	1302	150	240	812280	395120	O	1640	SAND	1		97.5
		149	241	812283	395181	O	1640	SAND	1		99.1
		139	242	812289	395212	O	1640	SAND	1		98.7
		125	243	812271	395293	O	1640	SAND	1		97.5
		138	244	812270	395262	O	1640	SAND	1		95
		84	245	812290	395261	O	1640	SAND	1		97
		102	246	812293	395291	O	1640	SAND	1		95.3
		107	251	812322	395333	O	1560	SAND	1		103.4
24/06/2014	1416	1	267	812270	395213	O	1560	SAND	1		106.8
		2	268	812266	395180	O	1560	SAND	1		101.7
		3	269	812260	395124	O	1560	SAND	1		98.7
24/06/2014	1417	1	270	812218	395127	P	1560	SAND	1		105.5
		2	271	812230	395184	P	1560	SAND	1		104.7
		3	272	812234	395216	O	1560	SAND	1		103
		4	273	812236	395126	O	1560	SAND	1		99.4
		5	274	812248	395183	O	1560	SAND	1		107.8
		6	275	812253	395214	O	1560	SAND	1		108.3
11/07/2014	1599	1	282	811990	395197	P	1620	SAND	1		104.9
		2	283	812009	395189	P	1620	SAND	1		99.6
		3	284	811990	395273	P	1620	SAND	1		101.4
		4	285	812008	395268	P	1620	SAND	1	1648	94.9
		5	286	812025	395270	P	1620	SAND	1		95.7
		6	287	812025	395297	P	1620	SAND	1		95

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
17/07/2014	1648	1	288	812008	395268	P	1620	SAND	1	1599	96.5
		2	289	812008	395286	P	1620	SAND	1	1599	96.1
26/06/2014	1438	1	290	812253	395214	O	1640	SAND	2		100.2
		2	291	812234	395216	O	1640	SAND	2		105
		3	292	812216	395219	O	1640	SAND	2		97.9
		4	293	812211	395186	P	1640	SAND	2		98.5
		5	294	812230	395184	P	1640	SAND	2		100.2
		6	295	812248	395183	O	1640	SAND	2		99.8
		7	296	812236	395126	O	1640	SAND	2	1499	93.3
		8	297	812218	395127	P	1640	SAND	2	1499	90.7
3/07/2014	1499	1	298	812260	395124	O	1640	SAND	2		101.9
		2	299	812236	395126	O	1640	SAND	2	1438	103.1
		3	300	812218	395127	P	1640	SAND	2	1438	101.3
		4	301	812201	395130	P	1640	SAND	2		100.7
		4	305	812151	395272	O	1640	SAND	1		98.8
		5	306	812153	395303	O	1640	SAND	1		98.5
		6	307	812171	395268	O	1640	SAND	1		95.9
		7	308	812175	395299	O	1640	SAND	1		100.1
		8	309	812153	395221	O	1640	SAND	1		97.7
		9	310	812149	395200	P	1640	SAND	1		100.9
		10	311	812149	395180	P	1640	SAND	1		97.1
		11	312	812175	395188	P	1640	SAND	1		97
		12	313	812192	395188	P	1640	SAND	1		98.7
		13	314	812197	395218	O	1640	SAND	1		95.5
		14	315	812178	395219	O	1640	SAND	1		95.9
		15	316	812141	395136	P	1640	SAND	1		99.9
		16	317	812160	395133	P	1640	SAND	1		98.4
		17	318	812179	395133	P	1640	SAND	1		97.1
		18	319	812201	395130	P	1640	SAND	1		109.1
25/07/2014	1708	1	320	812195	395297	O	1640	SAND	2		95
		2	321	812192	395269	O	1640	SAND	2		100.7
		3	322	812211	395269	O	1640	SAND	2		99.3
		4	323	812230	395268	O	1640	SAND	2		99.3
		5	324	812250	395267	O	1640	SAND	2		104.7
		6	325	812252	395294	O	1640	SAND	2		102.8
		7	326	812234	395296	O	1640	SAND	2	1723	93.3

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		8	327	812213	395297	O	1640	SAND	2		112.4
28/07/2014	1723	1	328	812252	395294	O	1640	SAND	2		102.5
		2	329	812234	395296	O	1640	SAND	2		98.9
		3	330	812213	395297	O	1640	SAND	2		102.2
		4	331	812195	395297	O	1640	SAND	2		101.5
31/07/2014	1744	1	332	812250	395267	O	1640	SAND	4		95.2
		2	333	812252	395294	O	1640	SAND	4		98.3
		3	334	812234	395296	O	1640	SAND	4	1761	94.8
		4	335	812230	395268	O	1640	SAND	4		100.2
		5	336	812211	395269	O	1640	SAND	4		100
		6	337	812213	395297	O	1640	SAND	4		97.9
		7	338	812195	395297	O	1640	SAND	4		97.8
		8	339	812192	395269	O	1640	SAND	4		95.1
31/07/2014	1761	1	340	812234	395296	O	1640	SAND	4	1744	100.9
22/07/2014	1677	1	341	812195	395297	O	1560	SAND	1		108.1
		2	342	812192	395269	O	1560	SAND	1		102.5
		3	343	812211	395269	O	1560	SAND	1		99.2
		4	344	812213	395297	O	1560	SAND	1		100.1
		5	345	812234	395296	O	1560	SAND	1		101.3
		6	346	812230	395268	O	1560	SAND	1		100.4
		7	347	812250	395267	O	1560	SAND	1		97.5
		8	348	812252	395294	O	1560	SAND	1		97.7
1/08/2014	1776	1	349	812252	395294	O	1560	SAND	5		102.8
		2	350	812234	395296	O	1560	SAND	5		108.1
		3	351	812213	395297	O	1560	SAND	5		107.7
		4	352	812195	395297	O	1560	SAND	5		104.7
		5	353	812192	395269	O	1560	SAND	5		104.7
		6	354	812211	395269	O	1560	SAND	5		107.6
		7	355	812230	395268	O	1560	SAND	5		102
		8	356	812250	395267	O	1560	SAND	5		101.2
16/07/2014	1641	1	364	812141	395146	P	1620	SAND	1		97.4
		2	365	812140	395114	P	1620	SAND	1		96.4
		3	366	812014	395277	P	1620	SAND	1	1818	94.7
		4	367	812003	395277	P	1620	SAND	1	1818	94.3
6/08/2014	1818	1	368	812014	395277	P	1620	SAND	1	1641	96.3
		2	369	812003	395277	P	1620	SAND	1	1641	96.4

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
8/08/2014	1859	1	370	812084	395130	P	1640	SAND	1		97.5
		2	371	812098	395130	P	1640	SAND	1		97.4
		3	372	812060	395131	P	1640	SAND	1		96.5
		4	373	812065	395164	P	1640	SAND	1		95.7
		5	374	812093	395162	P	1640	SAND	1		95.4
		6	375	812065	395192	P	1640	SAND	1		97.9
		7	376	812075	395224	P	1640	SAND	1		98.7
		8	377	812096	395209	P	1640	SAND	1		99
		9	378	812095	395191	P	1640	SAND	1		100.2
12/08/2014	1904	1	379	812057	395185	P	1640	SAND	1		96.9
		2	380	812058	395201	P	1640	SAND	1		96
		3	381	812089	395182	P	1640	SAND	1		99.3
		4	382	812090	395199	P	1640	SAND	1		102
		5	383	812102	395230	O	1640	SAND	1		102.7
		6	384	812088	395218	P	1640	SAND	1		96.8
		7	385	812064	395218	P	1640	SAND	1		99.4
		2	386	812055	395201	P	1640	SAND	1		97.4
13/08/2014	1921	1	387	812108	395264	O	1640	SAND	1		97.1
		2	388	812109	395280	O	1640	SAND	1		106.7
		3	389	812112	395300	O	1640	SAND	1		107.4
		4	390	812079	395304	P	1640	SAND	1		98.7
		5	391	812078	395286	P	1640	SAND	1		97
		6	392	812076	395264	P	1640	SAND	1		95.5
		14	393	812062	395164	P	1640	SAND	1		98.9
		1	394	812108	395264	O	1620	SAND	2		96.4
		2	395	812109	395280	O	1620	SAND	2		95.5
		3	396	812112	395300	O	1620	SAND	2		95.9
		4	397	812079	395304	P	1620	SAND	2		96.7
		5	398	812078	395286	P	1620	SAND	2		96.2
		6	399	812076	395264	P	1620	SAND	2		97.5
		14	400	812062	395164	P	1620	SAND	2		95.8
18/08/2014	1957	1	401	812068	395326	P	1640	SAND	1		99.2
		2	402	812066	395307	P	1640	SAND	2		97.5
		3	403	812065	395288	P	1640	SAND	2		99
		4	404	812062	395266	P	1640	SAND	2		100
		5	405	812096	395265	O	1640	SAND	2		100.9

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		6	406	812097	395284	O	1640	SAND	2		104.1
		7	407	812099	395303	O	1640	SAND	2		102.1
		8	408	812099	395322	O	1640	SAND	1		104.4
20/08/2014	1985	1	409	812194	395352	O	1640	SAND	1		96.3
		2	410	812211	395351	O	1640	SAND	1		101.8
		3	411	812227	395349	O	1640	SAND	1		99.8
		4	412	812242	395344	O	1640	SAND	1		103.3
		5	413	812260	395344	O	1640	SAND	1		98.5
		6	414	812261	395365	O	1640	SAND	1		101.1
		7	415	812245	395371	O	1640	SAND	1		96.5
		8	416	812229	395374	O	1640	SAND	1		96.9
		9	417	812212	395375	O	1640	SAND	1		95.8
		10	418	812193	395377	O	1640	SAND	1		102.2
22/08/2014	2011	1	419	812194	395352	O	1640	SAND	2		98.5
		2	420	812211	395351	O	1640	SAND	2		98
		3	421	812227	395349	O	1640	SAND	2		97.8
		4	422	812242	395344	O	1640	SAND	2		100
		5	423	812260	395344	O	1640	SAND	2		96.2
		6	424	812261	395365	O	1640	SAND	2		96.7
		7	425	812245	395371	O	1640	SAND	2		95
		8	426	812229	395374	O	1640	SAND	2		99.9
		9	427	812212	395375	O	1640	SAND	2		96.4
		10	428	812193	395377	O	1640	SAND	2		96.2
21/07/2014	1664	1	429	812216	395219	O	1640	SAND	2		99.5
		2	430	812197	395218	O	1640	SAND	2		98.8
		3	431	812178	395219	O	1640	SAND	2		98.3
		4	432	812153	395221	O	1640	SAND	2		97.2
		5	433	812149	395200	P	1640	SAND	2		97
		6	434	812175	395188	P	1640	SAND	2		101.3
		7	435	812192	395188	P	1640	SAND	2		98.1
		8	436	812211	395186	P	1640	SAND	2		100.3
		9	437	812149	395180	P	1640	SAND	2		97.5
		10	438	812141	395136	P	1640	SAND	2		99
		11	439	812160	395133	P	1640	SAND	2		99.8
		12	440	812179	395133	P	1640	SAND	2		103
		13	441	812201	395130	P	1640	SAND	2		98.9



DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		14	442	812171	395268	0	1640	SAND	2		99.8
		15	443	812175	395299	0	1640	SAND	2		97.7
		16	444	812153	395303	0	1640	SAND	2		97.2
		17	445	812151	395272	0	1640	SAND	2		101.3
29/07/2014	1737	1	446	812250	395267	0	1640	SAND	3		103.1
		2	447	812252	395294	0	1640	SAND	3		100.7
		3	448	812234	395296	0	1640	SAND	3		97.9
		4	449	812230	395268	0	1640	SAND	3		100.9
		5	450	812211	395269	0	1640	SAND	3		99.8
		6	451	812213	395297	0	1640	SAND	3		100.9
		7	452	812192	395269	0	1640	SAND	3		99.3
		8	453	812195	395297	0	1640	SAND	3		102.2
26/08/2014	2028	1	454	812261	395365	0	1640	SAND	3		99
		2	455	812245	395371	0	1640	SAND	3		98.9
		3	456	812260	395344	0	1640	SAND	3		103.1
		4	457	812242	395344	0	1640	SAND	3		103.8
		5	458	812227	395349	0	1640	SAND	3		98.6
		6	459	812229	395374	0	1640	SAND	3		97.9
		7	460	812211	395351	0	1640	SAND	3		100.9
		8	461	812212	395375	0	1640	SAND	3		98.5
		9	462	812194	395352	0	1640	SAND	3		100.3
		10	463	812193	395377	0	1640	SAND	3		96.9
28/08/2014	2049	1	469	812260	395344	0	1600	SAND	4		101.3
		2	470	812242	395344	0	1600	SAND	4		99.8
		3	471	812227	395349	0	1600	SAND	4		98.8
		4	472	812211	395351	0	1600	SAND	4		103.4
		5	473	812194	395352	0	1600	SAND	4		100.9
		6	474	812193	395377	0	1600	SAND	4		103.6
		7	475	812212	395375	0	1600	SAND	4		100.5
		8	476	812229	395374	0	1600	SAND	4		103.5
		9	477	812245	395371	0	1600	SAND	4		102.3
		10	478	812261	395365	0	1600	SAND	4		99.8
2/09/2014	2094	1	479	812260	395344	0	1600	SAND	5		101.3
		2	480	812242	395344	0	1600	SAND	5		105.7
		3	481	812227	395349	0	1600	SAND	5		101.7
		4	482	812211	395351	0	1600	SAND	5		98.7

DATE	LAB REFERENCE	SITE NUMBER	LABEL	NORTH	EAST	Sub-Stage	MAX DRY DENSITY	TYPE	LIFT	RETEST REFERENCE	% COMPACTION
		5	483	812194	395352	O	1600	SAND	5		101.1
		6	484	812193	395377	O	1600	SAND	5		99.4
		7	485	812212	395375	O	1600	SAND	5		99.1
		8	486	812229	395374	O	1600	SAND	5		101.1
		9	487	812245	395371	O	1600	SAND	5		99.8
		10	488	812261	395365	O	1600	SAND	5		99.5
9/09/2014	2158	1	506	812151	395377	O	1600	SAND	6		102.6
		2	507	812153	395361	O	1600	SAND	6		101.3
		3	508	812154	395343	O	1600	SAND	6		103.6
		4	509	812173	395342	O	1600	SAND	6		100
		5	510	812194	395352	O	1600	SAND	6		99.8
		6	511	812211	395351	O	1600	SAND	6		99.9
		7	512	812227	395349	O	1600	SAND	6		98.4
		8	513	812242	395344	O	1600	SAND	6		101.3
		9	514	812260	395344	O	1600	SAND	6		101.4
		10	515	812261	395365	O	1600	SAND	6		107.7
		11	516	812245	395371	O	1600	SAND	6		104.2
		12	517	812229	395374	O	1600	SAND	6		99.2
		13	518	812212	395375	O	1600	SAND	6		99.3
		14	519	812193	395377	O	1600	SAND	6		100.3
		15	520	812174	395380	O	1600	SAND	6		104.1
		2	699	812552	395466	X	1600	SAND	2		99.5
29/10/2014	2679	1	700	812112	395335	O	1640	SAND	1		98.8
		2	701	812069	395340	P	1640	SAND	1		102.3
		3	702	812070	395357	P	1640	SAND	1		103.7
		4	703	812070	395375	P	1640	SAND	1		101.2
		5	704	812070	395392	P	1640	SAND	1		98.3
		6	705	812102	395392	O	1640	SAND	1	2687	93.7
		7	706	812108	395374	O	1640	SAND	1		97
		8	707	812113	395354	O	1640	SAND	1		104.8
30/10/2014	2687	1	712	812102	395392	O	1640	SAND	1	2679	97.3