



11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 15

REPORT ON LEVEL 1 EARTHWORKS INSPECTION AND TESTING



PROJECT: Bellevue Stage 15 – 357 Ripley Road

CONTRACTOR: SEE Civil Pty Ltd

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1 INTRODUCTION

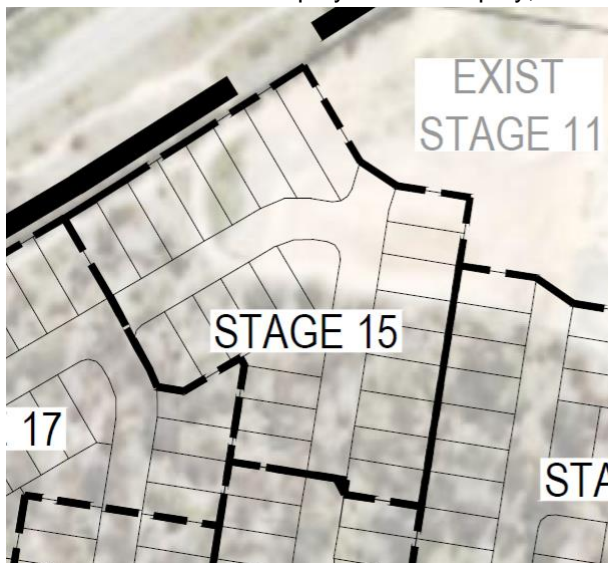
1.0 GENERAL

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with Clause 8.2 of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

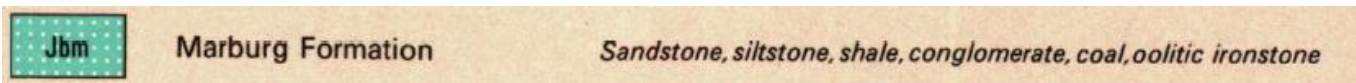
The fill placed on the site between the 3/05/2024 and 6/02/2025 as detailed in this report is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

1.1 SITE DESCRIPTION

The site is located at 357 Ripley Road in Ripley, Queensland shown below.



1.2 SITE GEOLOGY



Source: Moreton Geology Map

2 WORKS AND SPECIFICATIONS

The earthworks generally comprised of Level 1 filling placed across the site. Filling was conducted by using site won materials. The fill materials were placed in layers not exceeding 200mm and moisture conditioned. Compaction equipment was then utilised to compact the fill until the required density specifications were achieved.

Filling was carried out in accordance with AS3798-2007 '*Guidelines on earthworks for commercial and residential developments*' and with the project specification prepared for the project.

The specification requirements were that all fill was to be placed and compacted in layers to a density ratio of not less than 95% (standard compaction).

3 PREVIOUS EARTHWORKS

No previous earthworks have been conducted on the site.

4 FILL FOUNDATION

The stripped surfaces of proposed fill areas were inspected, and proof rolled prior to placement of fill. In general, the proof rolling was carried out with the equipment used to compact the fill and water truck. Compliance of the fill foundation and approval to commence filling was on the basis of:

- Adequate removal of topsoil and organics
- Soundness (minimum deflection) under proof rolling

5 COMPLIANCE TESTING

Test locations were randomly selected by the Geotechnical Testing Authority (GTA) Australian Soil and Concrete Testing. Compaction control tests were carried out at regular intervals throughout the placement of fill and after completion in accordance with the minimum test frequency recommendations included in the specifications. The table below summarises the test results. The test locations were not professionally surveyed and should be considered approximate.

All field density tests carried out on the structural fill meet the minimum specification requirements of 95% Standard Compaction (AS 1289 5.8.1, 5.7.1 & 2.1.1).

SUMMARY OF FIELD DENSITY TEST RESULTS

Test No	Test Date	Test Location	Test Level	Density Ratio %
106612	3/05/2024	Lot 388	E: 7699.1 N: 40267.9 RL: 69.30	96.5
106613	3/05/2024	Lot 379	E: 7730.4 N: 40253.0 RL: 70.79	95.5
106614	3/05/2024	Lot 378	E: 7716.2 N: 40239.1 RL: 69.53	98.5
106615	3/05/2024	Lot 389	E: 7681.5 N: 40248.5 RL: 67.40	96.0
106616	3/05/2024	-	E: 7666.8 N: 40234.6 RL: 65.40	100.5
106617	3/05/2024	Lot 390	E: 7698.3 N: 40218.7 RL: 67.40	96.0
106757	7/05/2024	Lot 377	E: 7717.14 N: 40230.18 RL: 69.50	95.5
106758	7/05/2024	Lot 390	E: 7704.20 N: 40232.82 RL: 68.58	95.0
106759	7/05/2024	Lot 390	E: 7679.56 N: 40237.89 RL: 67.09	97.0
106760	7/05/2024	Lot 399	E: 7648.70 N: 40248.25 RL: 65.14	95.0
106761	7/05/2024	Lot 400	E: 7619.80 N: 40258.10 RL: 63.88	95.0
106762	7/05/2024	-	E: 7619.62 N: 40277.25 RL: 64.98	99.0
106763	7/05/2024	Lot 386	E: 7675.98 N: 40287.16 RL: 68.71	96.0
106764	7/05/2024	Lot 385	E: 7674.27 N: 40308.21 RL: 69.50	96.5
106980	8/05/2024	Lot 379	E: 7724.0 N: 40228.0 RL: 70.02	98.0
106981	8/05/2024	-	E: 7648.24 N: 40258.4 RL: 66.11	95.5
106982	8/05/2024	-	E: 7616.1 N: 40271.5 RL: 64.70	96.5
106983	8/05/2024	-	E: 7627.1 N: 40286.3 RL: 66.30	97.0
106984	8/05/2024	Lot 388	E: 7660.4 N: 40273.9 RL: 67.85	98.5
106985	8/05/2024	Lot 378	E: 7703.16 N: 40256.9 RL: 69.57	95.5



106986	8/05/2024	-	E: 7724.7	N: 40249.5	RL: 70.90	96.0
106987	8/05/2024	-	E: 7683.7	N: 40300.3	RL: 69.57	96.5
107063	9/05/2024	Lot 417	E: 7625.48	N: 40313.67	RL: 68.16	101.0
107064	9/05/2024	Lot 413	E: 7635.06	N: 40290.10	RL: 67.22	100.0
107065	9/05/2024	Lot 398	E: 7663.70	N: 40241.90	RL: 63.74	99.5
107066	9/05/2024	-	E: 7660.35	N: 40230.59	RL: 65.81	99.5
107067	9/05/2024	Lot 411	E: 7609.19	N: 40294.70	RL: 65.49	100.5
107068	9/05/2024	Lot 409	E: 7589.55	N: 40304.01	RL: 64.58	100.5
107069	9/05/2024	Lot 419	E: 7599.37	N: 40331.15	RL: 66.99	100.0
107070	9/05/2024	-	E: 7593.11	N: 40346.00	RL: 67.58	100.0
107216	10/05/2024	-	E: 7480.57	N: 40328.10	RL: 62.27	96.0
107217	10/05/2024	Lot 403	E: 7500.91	N: 40316.83	RL: 61.51	96.0
107218	10/05/2024	Lot 404	E: 7516.05	N: 40303.19	RL: 60.94	97.5
107219	10/05/2024	Lot 405	E: 7535.49	N: 40293.07	RL: 61.14	97.0
107220	10/05/2024	Lot 408	E: 7574.60	N: 40287.25	RL: 63.12	96.5
107221	10/05/2024	-	E: 7586.47	N: 40274.80	RL: 63.31	96.5
107222	10/05/2024	Lot 402	E: 7593.40	N: 40263.15	RL: 63.27	96.5
107223	10/05/2024	Lot 401	E: 7611.35	N: 40254.30	RL: 63.69	96.0
107240	13/05/2024	Lot: 426	E: 7505.05	N: 40331.79	RL: 62.78	98.5
107241	13/05/2024	Basin Wall	E: 7477.28	N: 40320.67	RL: 62.03	99.5
107242	13/05/2024	Lot: 404	E: 7505.99	N: 40303.51	RL: 61.06	100.0
107243	13/05/2024	Lot: 405	E: 7533.43	N: 40302.92	RL: 61.85	97.5
107244	13/05/2024	Lot: 408	E: 7572.05	N: 40290.33	RL: 63.50	96.5
107245	13/05/2024	Gladden Street	E: 7595.03	N: 40272.86	RL: 64.21	100.0
107246	13/05/2024	Lot: 390	E: 7686.15	N: 40224.47	RL: 67.67	97.0
107247	13/05/2024	Plenty Place	E: 7672.79	N: 40247.17	RL: 67.42	98.0
107378	14/05/2024	-	E: 7603.00	N: 40227.78	RL: 63.41	99.5
107379	14/05/2024	-	E: 7616.16	N: 40223.63	RL: 63.96	97.5
107380	14/05/2024	-	E: 7624.52	N: 40212.45	RL: 64.09	97.5
107381	14/05/2024	-	E: 7648.26	N: 40226.98	RL: 65.38	97.5
107382	14/05/2024	-	E: 7694.28	N: 40240.71	RL: 68.83	95.0
107383	14/05/2024	-	E: 7681.71	N: 40257.80	RL: 68.87	97.5
107384	14/05/2024	-	E: 7610.40	N: 40276.81	RL: 65.35	97.5
107385	14/05/2024	-	E: 7664.23	N: 40287.69	RL: 63.28	96.0
107542	15/05/2024	LOT:387	E: 7689.75	N: 40279.37	RL: 69.58	95.5
107543	15/05/2024	LOT:413	E: 7650.12	N: 40281.11	RL: 67.86	97.5
107544	15/05/2024	LOT:409	E: 7577.49	N: 40292.55	RL: 64.63	98.5
107545	15/05/2024	LOT:406	E: 7539.94	N: 40299.50	RL: 63.24	100.0
107546	15/05/2024	LOT:404	E: 7506.50	N: 40300.23	RL: 61.99	102.0
107547	15/05/2024	Gladden Street	E: 7486.18	N: 40307.99	RL: 61.97	95.0
107548	15/05/2024	Basin Wall	E: 7475.55	N: 40324.08	RL: 62.53	96.5
107549	15/05/2024	LOT:422	E: 7558.35	N: 40325.37	RL: 64.13	97.5
107550	15/05/2024	LOT:388	E: 7671.89	N: 40273.90	RL: 71.84	98.0
107551	15/05/2024	LOT:413	E: 7636.89	N: 40288.82	RL: 68.39	99.0
107726	16/05/2024	LOT:413	E: 7636.84	N: 40282.22	RL: 70.37	98.0



107727	16/05/2024	LOT:410	E:7600.33	N:40288.66	RL:68.32	96.0
107728	16/05/2024	LOT:408	E:7565.45	N:40298.08	RL:72.53	97.0
107729	16/05/2024	LOT:404	E:7524.34	N:40304.12	RL:66.47	95.5
107730	16/05/2024	LOT:403	E:7517.97	N:40324.24	RL:66.23	98.0
107731	16/05/2024	LOT:422	E:7556.92	N:40326.35	RL:66.32	101.5
107732	16/05/2024	LOT:415	E:7641.05	N:40315.20	RL:70.17	95.0
107733	16/05/2024	LOT:417	E:7623.84	N:40322.26	RL:69.70	97.0
107843	20/05/2024	Lot 419	E: 7605.23	N: 40322.70	RL: 67.07	103.5
107844	20/05/2024	Lot 421	E: 7571.41	N: 40330.40	RL: 65.52	101.5
107845	20/05/2024	Lot 422	E: 7559.13	N: 40337.63	RL: 64.99	101.0
107846	20/05/2024	Lot 423	E: 7548.47	N: 40345.63	RL: 64.86	98.5
107847	20/05/2024	Lot 424	E: 7535.38	N: 40343.48	RL: 64.19	98.5
107848	20/05/2024	Lot 425	E: 7521.63	N: 40342.82	RL: 63.82	99.5
107849	20/05/2024	Lot 425	E: 7516.56	N: 40357.27	RL: 64.44	99.0
107850	20/05/2024	-	E: 7533.73	N: 40356.11	RL: 64.58	98.5
107851	20/05/2024	-	E: 7557.04	N: 40353.66	RL: 65.40	98.5
107852	20/05/2024	-	E: 7592.45	N: 40351.05	RL: 67.58	98.5
107853	21/05/2024	-	E: 7568.59	N: 40354.77	RL: 66.21	101.0
107854	21/05/2024	-	E: 7543.59	N: 40360.91	RL: 65.17	97.0
107855	21/05/2024	-	E: 7522.89	N: 40364.94	RL: 64.81	99.0
107856	21/05/2024	-	E: 7541.70	N: 40391.73	RL: 67.55	98.0
107857	21/05/2024	-	E: 7553.45	N: 40406.56	RL: 69.28	100.0
107858	21/05/2024	-	E: 7557.32	N: 40416.78	RL: 70.66	98.0
107859	21/05/2024	-	E: 7555.49	N: 40432.49	RL: 71.86	95.0
107860	21/05/2024	-	E: 7638.25	N: 40202.48	RL: 65.37	96.5
108091	22/05/2024	Lot 379	E: 7731.44	N: 40263.37	RL: 72.04	101.0
108092	22/05/2024	Lot 378	E: 7735.04	N: 40252.09	RL: 71.77	102.0
108093	22/05/2024	Lot 377	E: 7724.55	N: 40231.00	RL: 70.55	100.0
108094	22/05/2024	Lot 376	E: 7714.57	N: 40208.63	RL: 69.15	99.0
108095	22/05/2024	Lot 392	E: 7700.67	N: 40187.80	RL: 68.10	98.5
108096	22/05/2024	Lot 393	E: 7689.62	N: 40181.39	RL: 67.16	100.5
108097	22/05/2024	Lot 394	E: 7674.60	N: 40178.44	RL: 66.57	99.5
108098	22/05/2024	Lot 395	E: 7663.57	N: 40190.62	RL: 66.20	98.0
108169	23/05/2024	Lot 384	E: 7701.63	N: 40324.05	RL: 72.35	96.5
108170	23/05/2024	Lot 385	E: 7690.72	N: 40310.76	RL: 71.16	99.0
108171	23/05/2024	Lot 385	E: 7674.48	N: 40314.39	RL: 70.44	96.0
108172	23/05/2024	Lot 386	E: 7684.23	N: 40287.59	RL: 70.06	95.5
108173	23/05/2024	Lot 387	E: 7705.94	N: 40273.30	RL: 70.82	100.0
108174	23/05/2024	Lot 416	E: 7648.08	N: 40319.39	RL: 69.35	99.0
108175	23/05/2024	Lot 417	E: 7631.66	N: 40336.68	RL: 69.20	99.5
108176	23/05/2024	Lot 418	E: 7611.98	N: 40340.76	RL: 68.35	101.0
108247	24/05/2024	-	E: 7688.50	N: 40340.95	RL: 72.53	98.0
108248	24/05/2024	-	E: 7666.81	N: 40347.46	RL: 71.34	96.0
108249	24/05/2024	-	E: 7629.24	N: 40344.80	RL: 69.52	98.0
108250	24/05/2024	-	E: 7591.35	N: 40350.40	RL: 67.82	96.5



108251	24/05/2024	-	E: 7550.67	N: 40365.55	RL: 66.23	97.0
108252	24/05/2024	-	E: 7526.71	N: 40369.99	RL: 65.81	97.0
108253	24/05/2024	-	E: 7529.36	N: 40316.42	RL: 63.55	97.5
108254	24/05/2024	-	E: 7551.36	N: 40319.32	RL: 65.04	95.0
108367	27/05/2024	Lot 356	E: 7642.86	N: 40394.59	RL: 73.92	98.5
108368	27/05/2024	Lot 355	E: 7631.22	N: 40394.67	RL: 73.58	98.0
108369	27/05/2024	Lot 354	E: 7618.71	N: 40398.07	RL: 73.17	98.5
108370	27/05/2024	Lot 354	E: 7625.40	N: 40406.87	RL: 72.91	99.5
108371	27/05/2024	Lot 421	E: 7576.23	N: 40333.97	RL: 66.85	96.5
108372	27/05/2024	Lot 426	E: 7525.69	N: 40326.96	RL: 64.76	95.5
108373	27/05/2024	Lot 404	E: 7511.26	N: 40310.05	RL: 63.20	99.0
108374	27/05/2024	Lot 407	E: 7557.80	N: 40297.27	RL: 64.47	99.5
108547	28/05/2024	Lot:398	E:7658.65	N:40229.74	RL:67.52	100.0
108548	28/05/2024	Lot:397	E:7641.16	N:40220.38	RL:66.96	100.0
108549	28/05/2024	Lot:400	E:7613.74	N:40236.88	RL:66.32	98.5
108550	28/05/2024	Lot:400	E:7620.96	N:40262.40	RL:67.12	98.5
108551	28/05/2024	Lot:399	E:7658.54	N:40254.82	RL:67.90	99.0
108552	28/05/2024	Lot:413	E:7676.98	N:40276.98	RL:68.82	98.5
108553	28/05/2024	Lot:414	E:7635.24	N:40300.26	RL:69.14	101.0
108554	28/05/2024	Lot:415	E:7636.49	N:40312.44	RL:69.73	98.0
108555	29/05/2024	-	E: 7612.19	N: 40322.07	RL: 69.39	98.0
108556	29/05/2024	-	E: 7644.41	N: 40317.98	RL: 70.42	98.5
108557	29/05/2024	-	E: 7657.44	N: 40323.20	RL: 70.72	97.0
108558	29/05/2024	-	E: 7650.02	N: 40338.80	RL: 70.81	99.0
108559	29/05/2024	-	E: 7601.95	N: 40345.80	RL: 68.90	99.0
108560	29/05/2024	-	E: 7554.66	N: 40345.70	RL: 66.93	101.0
108561	29/05/2024	-	E: 7534.1	N: 40339.29	RL: 65.83	97.0
108562	29/05/2024	-	E: 7525.27	N: 40343.38	RL: 65.32	102.5
108731	30/05/2024		E:7574.63	N:40380.52	RL:68.07	98.5
108732	30/05/2024	LOT:350	E:7576.89	N:40397.33	RL:69.01	97.5
108733	30/05/2024		E:7580.81	N:40416.01	RL:70.54	98.5
108734	30/05/2024	LOT:346	E:7578.26	N:40440.93	RL:72.27	96.0
108735	30/05/2024	LOT:347	E:7573.48	N:40435.50	RL:71.85	95.5
108736	30/05/2024	LOT:347	E:7571.48	N:40430.65	RL:71.37	95.5
108737	30/05/2024	LOT:348	E:7571.22	N:40425.20	RL:71.02	100.0
108738	30/05/2024	LOT:348	E:7570.91	N:40419.41	RL:70.43	98.0
108918	31/05/2024	LOT:349	E:7570.54	N:40411.32	RL:70.16	99.5
108919	31/05/2024	LOT:349	E:7566.66	N:40405.22	RL:69.50	100.0
108920	31/05/2024	LOT:350	E:7558.49	N:40394.09	RL:68.25	99.0
108921	31/05/2024	LOT:351	E:7549.13	N:40383.52	RL:67.25	102.0
108922	31/05/2024		E:7593.05	N:40345.82	RL:68.60	101.0
108923	31/05/2024	LOT:393	E:7694.81	N:40192.45	RL:67.42	99.0
108924	3/06/2024	LOT:351	E:7552.13	N:40374.49	RL:67.04	102.0
108925	3/06/2024		E:7510.61	N:40356.57	RL:65.47	100.0
108926	3/06/2024		E:7502.40	N:40342.17	RL:64.05	101.5



108927	3/06/2024	LOT:423	E:7542.96	N:40322.84	RL:66.52	100.0
108928	3/06/2024	LOT:422	E:7559.28	N:40323.96	RL:67.31	98.0
108929	3/06/2024	LOT:421	E:7581.80	N:40327.52	RL:68.34	98.0
108930	3/06/2024	LOT:417	E:7620.73	N:40321.62	RL:69.79	99.0
108931	3/06/2024	LOT:416	E:7635.78	N:40328.84	RL:70.89	98.0
108972	4/06/2024	Lot 394	E: 7682.18	N: 40191.67	RL: 67.06	96.0
108973	4/06/2024	Lot: 430	E: 7538.81	N: 40433.18	RL: 71.20	96.0
108974	4/06/2024	Lot: 429	E: 7536.70	N: 40420.98	RL: 70.30	95.0
108975	4/06/2024	Lot : 428	E: 7539.63	N: 40407.53	RL: 69.21	96.0
109047	5/06/2024	Lot 467	5.0m South 4.0m East	O/S North,West side of lot	FSL of Lot	104.0
109048	5/06/2024	Lot 468	9.0m South 8.0m East	O/S North,West side of lot	FSL of Lot	101.0
109049	5/06/2024	Lot 469	10.0m South 7.0m East	O/S North,West side of lot	FSL of Lot	102.0
109050	5/06/2024	Lot 485	11.0m South 15.0m East	O/S North,West side of lot	FSL of Lot	102.0
109130	6/06/2024	LOT: 438	10m West 14m North	From South East corner of Lot	FSL of Lot	97.0
109131	6/06/2024	LOT: 437	7m West 16m North	From South East corner of Lot	FSL of Lot	101.5
109132	6/06/2024	LOT: 368	10m West 4m North	From South East corner of Lot	FSL of Lot	100.5
109133	6/06/2024	LOT: 367	15m West 7m North	From South East corner of Lot	FSL of Lot	101.0
109433	10/06/2024	Lot 344	5.0m South 27m West	From North East corner of Lot	FSL of Lot	96.5
109434	10/06/2024	Lot 345	9.0m South 14m West	From North East corner of Lot	FSL of Lot	97.0
109435	10/06/2024	Lot 346	3.0m South 25m West	From North East corner of Lot	FSL of Lot	96.5
109436	10/06/2024	Lot 347	10m South 19m West	From North East corner of Lot	FSL of Lot	97.0
109437	10/06/2024	Lot 348	7.0m South 19m West	From North East corner of Lot	FSL of Lot	96.5
109438	10/06/2024	Lot 349	8.0m South 20m West	From North East corner of Lot	FSL of Lot	98.0
109507	11/06/2024	LOT:428	5.0m off S Boundary	3.0m off E Boundary	FSL of Lot	96.5
109508	11/06/2024	LOT:429	4.0m off S Boundary	4.0m off E Boundary	FSL of Lot	100.5
109509	11/06/2024	LOT:430	3.0m off S Boundary	2.0m off E Boundary	FSL of Lot	95.5
109510	11/06/2024	LOT:485	6.0m off N Boundary	4.0m off W Boundary	FSL of Lot	97.0
126337	7/02/2025	Lot: 436	2m off East boundary	2.5m off North boundary	FSL of Lot	96.0
126338	7/02/2025	Lot: 437	3m off East boundary	5m off North boundary	FSL of Lot	95.0

126339	7/02/2025	Lot: 438	8m off East boundary	4m off North boundary	FSL of Lot	98.5
126340	7/02/2025	Lot: 467	11m off East boundary	10m off North boundary	FSL of Lot	97.0
126341	7/02/2025	Lot: 468	6m off East boundary	10m off North boundary	FSL of Lot	99.0
126342	7/02/2025	Lot: 469	4m off East boundary	8m off North boundary	FSL of Lot	99.5

Note: Summary of test results includes all results for stages 12 to 18.

No. of Tests: 188

Mean: 98.2 %

6 CONCLUSION

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction, as far as we have been able to determine, the structural fill placed on the site between the 03/05/2024 and 06/02/2025 is considered to have been carried out in general accordance with AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

7 LIMITATIONS

Unless otherwise stated in this report, this report does not include: Backfill behind retaining structures, Backfill to service trenches, Road Pavements, Any Topsoil placed on the site, Slope Stability or Site Drainage.

The following should also be considered:

- This report is not a SITE CLASS REPORT as per AS2870-2011 and not a Geotechnical Site Investigation Report as per AS1726-2017.
- The shrink/swell movements which can occur in the residual silty clays due to weather related natural moisture changes by the reduction in surface evaporation subsequent to covering the site with buildings and pavements. As outlined in AS2870-2011 ("Residential Slabs and Footings – Constructions").
- It should be noted that there is a possibility that compaction levels may have increased during placement of subsequent layers especially when there have been fully laden earthmoving equipment frequently travel across the fill areas exerting high traffic loads.
- All compacted filling is subject to decompaction phenomenon.
- Compacted FILL usually experiences secondary settlement at a rate of about 1% x depth.

Please do not hesitate to contact me if you have any queries.

Yours faithfully



Jason Mckenna
Laboratory Manager
ASCT Brisbane South
jason.mckenna@asct.com.au

Appendix A

Test Locations



PROJECT NAME:		A3 HORZ SCALE: 1 : 700		General Notes A person using SEE Civil drawings and other data accepts the risk of: 1. Using the drawings and other data in electronic form without requesting and checking them for accuracy against the original hard copy versions 2. Using the drawings or other data for any purpose not yet agreed to in writing by SEE Civil
PROJECT NUMBER:		A3 VERT SCALE: 1 : 700		
Bellevue Stage 15		DRAWING: . 1		
LEVEL 1 TEST LOCATIONS		SHEET: 1		
Coord System MGA 56	Datum AHD	SR No :	SURVEYOR	

12D WORKING FOLDER: C:\Users\daniel.covani\OneDrive - SEE CIVIL PTY LTD\986-10 Stage 12\1100 SUR\1103 Design Mod\12D Projects\Bellevue 12 Design\Bellevue Stage 12 Design 12D PROJECT: Bellevue Stage 12 Design PLOT FILE: C:\Users\daniel.covani\SEE CIVIL PTY LTD\Bellevue - 986-12 Stage 15\1100 SUR\250210 BELLEVUE STAGE 15 LEVEL 1 TEST LOCATIONS1, PLOTTED: Mon Feb 10 16:11:06 2025



ASCT Brisbane South
 PO Box 1232
 PARK RIDGE QLD 4125
 ABN: 28 608 830 306
 ACN: 608 830 306
 Mobile: 0437 776 582 or 0439 776 589
 Email: brisbane.south@asct.com.au
 Web: www.asct.com.au

Client: SEE Civil Pty Ltd

Project Name: Bellevue Stage 15 – 357 Ripley Road, Ripley

FIGURE 1
 Approximate Test Locations

Job No: 1886

Appendix B

Test Reports

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	29
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	11/02/2025
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	126337	126338	126339	126340	126341
Field Test Number:	1	2	3	4	5
Date - Field Tested:	7/02/2025	7/02/2025	7/02/2025	7/02/2025	7/02/2025
Time - Field Tested:	1000	1005	1010	1015	1020
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot: 436	Lot: 437	Lot: 438	Lot: 467	Lot: 468
Location/Chainage/Easting:	(m) 2m off East boundary	3m off East boundary	8m off East boundary	11m off East boundary	6m off East boundary
Position/Offset/Northing:	(m) 2.5m off North boundary	5m off North boundary	4m off North boundary	10m off North boundary	10m off North boundary
Level/Layer/R.L.	FSL	FSL	FSL	FSL	FSL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.07	2.10	2.10	2.04	2.08
Field Dry Density:	(t/m ³)	1.89	1.91	1.92	1.87	1.89
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	10.0	9.5	9.0	10.0
Adjusted Lab OMC:	(%)	10.3	10.7	10.3	9.9	10.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.20	2.13	2.09	2.10
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.20	2.13	2.10	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	0.5% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC
Moisture Ratio	(%)	91.5	93.5	93.5	92.0	89.5
Density Ratio	(%)	96.0	95.0	98.5	97.0	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.6	6	97.47	1.69	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 08/02/2025



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

K. Wesener
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hifl)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	29
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	11/02/2025
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	126342	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	7/02/2025	-	-	-	-
Time - Field Tested:	1025	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot: 469	-	-	-	-
Location/Chainage/Easting:	(m) 4m off East boundary	-	-	-	-
Position/Offset/Northing:	(m) 8m off North boundary	-	-	-	-
Level/Layer/R.L.	FSL	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.17	-	-	-	-
Field Dry Density:	(t/m ³)	1.98	-	-	-	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	9.0	-	-	-	-
Adjusted Lab OMC:	(%)	10.0	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.17	-	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.18	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	91.0	-	-	-	-
Density Ratio	(%)	99.5	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.6	6	97.47	1.69	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hifl Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 08/02/2025



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	1
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	9/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	106612	106613	106614	106615	106616
Sample Number:	106612	106613	106614	106615	106616
Field Test Number:	1	2	3	4	5
Date - Field Tested:	3/05/2024	3/05/2024	3/05/2024	3/05/2024	3/05/2024
Time - Field Tested:	1000	1010	1020	1030	1040
Material Source / Type:	On site - General Fill				
Remarks / Notes:					
Control Line:	Lot 388	Lot 379	Lot 378	Lot 389	-
Location/Chainage/Easting: (m)	E: 7699.1	E: 7730.4	E: 7716.2	E: 7681.5	E: 7666.8
Position/Offset/Northing: (m)	N: 40267.9	N: 40253.0	N: 40239.1	N: 40248.5	N: 40234.6
Level/Layer/R.L.	RL: 69.30	RL: 70.79	RL: 69.53	RL: 67.40	RL: 65.40
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.05	2.02	2.07	2.05	2.10
Field Dry Density: (t/m ³)	1.87	1.83	1.86	1.84	1.87
Retained Oversize (Wet basis): (%)	2% on 19.0mm	3% on 19.0mm	1% on 19.0mm	3% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.0	10.5	11.0	11.0	12.0
Adjusted Lab OMC: (%)	11.7	12.0	13.4	12.3	14.3
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.12	2.11	2.09	2.13	2.08
Adjusted Lab Max CWD: (t/m ³)	2.13	2.12	2.09	2.13	2.09
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC
Moisture Ratio (%)	84.5	87.5	84.0	88.5	85.5
Density Ratio (%)	96.5	95.5	98.5	96.0	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.1	6	97.12	1.99	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 07/05/2024 to 08/05/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

B. Wild

B. Wild
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	1
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	9/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	106617	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	3/05/2024	-	-	-	-
Time - Field Tested:	1050	-	-	-	-
Material Source / Type:	On site - General Fill				
Remarks / Notes:					
Control Line:	Lot 390	-	-	-	-
Location/Chainage/Easting: (m)	E: 7698.3	-	-	-	-
Position/Offset/Northing: (m)	N: 40218.7	-	-	-	-
Level/Layer/R.L.	RL: 67.40	-	-	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	-	-	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.04	-	-	-	-
Field Dry Density: (t/m ³)	1.84	-	-	-	-
Retained Oversize (Wet basis): (%)	2% on 19.0mm	-	-	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content: (%)	11.0	-	-	-	-
Adjusted Lab OMC: (%)	12.8	-	-	-	-
Fraction Tested:	Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density: (t/m ³)	2.12	-	-	-	-
Adjusted Lab Max CWD: (t/m ³)	2.13	-	-	-	-
Compactive Effort:	Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	-	-	-	-
Moisture Ratio (%)	85.0	-	-	-	-
Density Ratio (%)	96.0	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.1	6	97.12	1.99	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 07/05/2024 to 08/05/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	3
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

	106757	106758	106759	106760	106761
Sample Number:	1	2	3	4	5
Field Test Number:	7/05/2024	7/05/2024	7/05/2024	7/05/2024	7/05/2024
Date - Field Tested:	1000	1000	1010	1020	1030
Time - Field Tested:	On site - General Fill				
Material Source / Type:	Remarks / Notes:				
Control Line:	Lot 377	Lot 390	Lot 390	Lot 399	Lot 400
Location/Chainage/Easting: (m)	E: 7717.14	E: 7704.20	E: 7679.56	E: 7648.70	E: 7619.80
Position/Offset/Northing: (m)	N: 40230.18	N: 40232.82	N: 40237.89	N: 40248.25	N: 40258.10
Level/Layer/R.L.	RL: 69.50	RL: 68.58	RL: 67.09	RL: 65.14	RL: 63.88
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	1.96	1.97	1.99	1.97	1.95
Field Dry Density: (t/m ³)	1.75	1.72	1.74	1.71	1.71
Retained Oversize (Wet basis): (%)	4% on 19.0mm	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	12.0	15.0	14.5	14.5	14.0
Adjusted Lab OMC: (%)	13.4	16.8	15.7	15.9	15.3
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.04	2.07	2.04	2.06	2.04
Adjusted Lab Max CWD: (t/m ³)	2.05	2.08	2.05	2.07	2.06
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	2.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC
Moisture Ratio (%)	91.0	88.5	92.0	92.0	92.0
Density Ratio (%)	95.5	95.0	97.0	95.0	95.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.6	8	96.18	1.38	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 15/05/2024 to 16/05/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

B. Wild

B. Wild
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	3
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	106762	106763	106764	-	-
Field Test Number:	6	7	8	-	-
Date - Field Tested:	7/05/2024	7/05/2024	7/05/2024	-	-
Time - Field Tested:	1050	1100	1110	-	-
Material Source / Type:	On site - General Fill				
Remarks / Notes:					
Control Line:	-	Lot 386	Lot 385	-	-
Location/Chainage/Easting: (m)	E: 7619.62	E: 7675.98	E: 7674.27	-	-
Position/Offset/Northing: (m)	N: 40277.25	N: 40287.16	N: 40308.21	-	-
Level/Layer/R.L.	RL: 64.98	RL: 68.71	RL: 69.50	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.10	1.98	2.00	-	-
Field Dry Density: (t/m ³)	1.83	1.73	1.74	-	-
Retained Oversize (Wet basis): (%)	3% on 19.0mm	1% on 19.0mm	1% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content: (%)	14.5	14.5	14.5	-	-
Adjusted Lab OMC: (%)	15.9	15.2	15.6	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density: (t/m ³)	2.11	2.06	2.07	-	-
Adjusted Lab Max CWD: (t/m ³)	2.12	2.06	2.07	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC	-	-
Moisture Ratio (%)	92.0	95.0	94.0	-	-
Density Ratio (%)	99.0	96.0	96.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.6	8	96.18	1.38	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 15/05/2024 to 16/05/2024



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Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	2
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	16/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	106980	106981	106982	106983	106984
Field Test Number:	1	2	3	4	5
Date - Field Tested:	8/05/2024	8/05/2024	8/05/2024	8/05/2024	8/05/2024
Time - Field Tested:	0700	0710	0720	0730	0740
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 379	-	-	-	Lot 388
Location/Chainage/Easting: (m)	E: 7724.0	E: 7648.24	E: 7616.1	E: 7627.1	E: 7660.4
Position/Offset/Northing: (m)	N: 40228.0	N: 40258.4	N: 40271.5	N: 40286.3	N: 40273.9
Level/Layer/R.L.	RL: 70.02	RL: 66.11	RL: 64.70	RL: 66.30	RL: 67.85
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.05	2.05	2.05	2.05	2.01
Field Dry Density: (t/m ³)	1.78	1.78	1.78	1.80	1.76
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	15.0	15.0	15.0	14.0	14.0
Adjusted Lab OMC: (%)	16.8	17.5	16.8	15.7	14.9
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.09	2.15	2.12	2.12	2.03
Adjusted Lab Max CWD: (t/m ³)	2.09	2.15	2.12	2.12	2.03
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	2.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.0% Drier than OMC
Moisture Ratio (%)	89.0	86.5	89.0	90.0	94.5
Density Ratio (%)	98.0	95.5	96.5	97.0	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.1	8	96.68	1.18	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 15/05/2024



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Approved By:

B. Wild

B. Wild
Approved Signatory

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Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	2
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	16/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	106985	106986	106987	-	-
Field Test Number:	6	7	8	-	-
Date - Field Tested:	8/05/2024	8/05/2024	8/05/2024	-	-
Time - Field Tested:	0750	0800	0810	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 378	-	-	-	-
Location/Chainage/Easting: (m)	E: 7703.16	E: 7724.7	E: 7683.7	-	-
Position/Offset/Northing: (m)	N: 40256.9	N: 40249.5	N: 40300.3	-	-
Level/Layer/R.L.	RL: 69.57	RL: 70.90	RL: 69.57	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	1.99	2.01	2.01	-	-
Field Dry Density: (t/m ³)	1.73	1.76	1.76	-	-
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content: (%)	15.0	14.0	14.5	-	-
Adjusted Lab OMC: (%)	16.4	14.8	15.7	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density: (t/m ³)	2.08	2.09	2.08	-	-
Adjusted Lab Max CWD: (t/m ³)	2.08	2.09	2.08	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	-	-
Moisture Ratio (%)	92.0	93.0	91.0	-	-
Density Ratio (%)	95.5	96.0	96.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.1	8	96.68	1.18	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 15/05/2024



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 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	4
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	107063	107064	107065	107066	107067
Field Test Number:	1	2	3	4	5
Date - Field Tested:	9/05/2024	9/05/2024	9/05/2024	9/05/2024	9/05/2024
Time - Field Tested:	1010	1020	1030	1040	1120
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 417	Lot 413	Lot 398	-	Lot 411
Location/Chainage/Easting: (m)	E: 7625.48	E: 7635.06	E: 7663.70	E: 7660.35	E: 7609.19
Position/Offset/Northing: (m)	N: 40313.67	N: 40290.10	N: 40241.90	N: 40230.59	N: 40294.70
Level/Layer/R.L.	RL: 68.16	RL: 67.22	RL: 63.74	RL: 65.81	RL: 65.49
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.07	2.07	2.07	2.06	2.07
Field Dry Density: (t/m ³)	1.81	1.81	1.84	1.81	1.82
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	14.5	14.0	12.5	14.0	13.5
Adjusted Lab OMC: (%)	15.8	15.3	13.8	15.2	14.8
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.05	2.07	2.09	2.07	2.06
Adjusted Lab Max CWD: (t/m ³)	2.05	2.07	2.09	2.07	2.06
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	91.0	91.5	91.0	91.5	90.5
Density Ratio (%)	101.0	100.0	99.5	99.5	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.9	8	100.11	0.50	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 16/05/2024



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Approved Signatory

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 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	4
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	107068	107069	107070	-	-
Field Test Number:	6	7	8	-	-
Date - Field Tested:	9/05/2024	9/05/2024	9/05/2024	-	-
Time - Field Tested:	1045	1055	1105	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 409	Lot 419	-	-	-
Location/Chainage/Easting: (m)	E: 7589.55	E: 7599.37	E: 7593.11	-	-
Position/Offset/Northing: (m)	N: 40304.01	N: 40331.15	N: 40346.00	-	-
Level/Layer/R.L.	RL: 64.58	RL: 66.99	RL: 67.58	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.06	2.07	2.10	-	-
Field Dry Density: (t/m ³)	1.82	1.82	1.83	-	-
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content: (%)	13.0	13.5	14.5	-	-
Adjusted Lab OMC: (%)	14.7	14.8	15.9	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density: (t/m ³)	2.05	2.07	2.10	-	-
Adjusted Lab Max CWD: (t/m ³)	2.05	2.07	2.10	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	-	-
Moisture Ratio (%)	89.5	91.5	91.5	-	-
Density Ratio (%)	100.5	100.0	100.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.9	8	100.11	0.50	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	5
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	107216	107217	107218	107219	107220
Field Test Number:	1	2	3	4	5
Date - Field Tested:	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024
Time - Field Tested:	1000	1005	1010	1015	1025
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	Lot 403	Lot 404	Lot 405	Lot 408
Location/Chainage/Easting: (m)	E: 7480.57	E: 7500.91	E: 7516.05	E: 7535.49	E: 7574.60
Position/Offset/Northing: (m)	N: 40328.10	N: 40316.83	N: 40303.19	N: 40293.07	N: 40287.25
Level/Layer/R.L.	RL: 62.27	RL: 61.51	RL: 60.94	RL: 61.14	RL: 63.12
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.03	2.01	2.06	2.06	2.03
Field Dry Density: (t/m ³)	1.84	1.82	1.88	1.87	1.85
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.0	10.5	9.5	10.0	9.5
Adjusted Lab OMC: (%)	11.8	12.2	11.1	11.4	11.4
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.11	2.09	2.11	2.12	2.10
Adjusted Lab Max CWD: (t/m ³)	2.11	2.09	2.11	2.12	2.10
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC
Moisture Ratio (%)	85.0	85.5	86.0	86.5	85.0
Density Ratio (%)	96.0	96.0	97.5	97.0	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.3	8	96.48	0.49	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

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 Mobile: 0437 776 582
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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	5
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	107221	107222	107223	-	-
Field Test Number:	6	7	8	-	-
Date - Field Tested:	10/05/2024	10/05/2024	10/05/2024	-	-
Time - Field Tested:	1035	1045	1055	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	Lot 402	Lot 401	-	-
Location/Chainage/Easting: (m)	E: 7586.47	E: 7593.40	E: 7611.35	-	-
Position/Offset/Northing: (m)	N: 40274.80	N: 40263.15	N: 40254.30	-	-
Level/Layer/R.L.	RL: 63.31	RL: 63.27	RL: 63.69	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.04	2.00	1.98	-	-
Field Dry Density: (t/m ³)	1.86	1.81	1.80	-	-
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content: (%)	9.5	10.0	9.5	-	-
Adjusted Lab OMC: (%)	11.2	12.0	11.4	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density: (t/m ³)	2.11	2.07	2.06	-	-
Adjusted Lab Max CWD: (t/m ³)	2.11	2.07	2.06	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	-	-
Moisture Ratio (%)	84.5	84.5	85.0	-	-
Density Ratio (%)	96.5	96.5	96.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.3	8	96.48	0.49	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 15/05/2024 to 16/05/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



ASCT Brisbane South

Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 15 Elliott Court Hillcrest, QLD 4118
Telephone: (07) 3800 7314
E-Mail: brisbane.south@asct.com.au
Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Bellevue Stages 12-18 Earthworks
Component: Bulk Earthworks Level 1
Lot Number: -
Report No: 6
Report Date: 21/05/2024
Project No: 1886
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	107240	107241	107242	107243	107244
Field Test Number:	1	2	3	4	5
Date - Field Tested:	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024
Time - Field Tested:	1000	1010	1020	1030	1040
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot: 426	Basin Wall	Lot: 404	Lot: 405	Lot: 408
Location/Chainage/Easting: (m)	E: 7505.05	E: 7477.28	E: 7505.99	E: 7533.43	E: 7572.05
Position/Offset/Northing: (m)	N: 40331.79	N: 40320.67	N: 40303.51	N: 40302.92	N: 40290.33
Level/Layer/R.L.	RL: 62.78	RL: 62.03	RL: 61.06	RL: 61.85	RL: 63.50
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.07	2.11	2.08	2.15	2.14
Field Dry Density: (t/m ³)	1.87	1.87	1.89	1.96	1.96
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.5	12.5	10.0	9.5	9.5
Adjusted Lab OMC: (%)	12.4	14.4	11.9	11.7	11.2
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.10	2.12	2.08	2.20	2.21
Adjusted Lab Max CWD: (t/m ³)	2.10	2.12	2.08	2.20	2.21
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC
Moisture Ratio (%)	85.5	88.5	85.5	82.5	82.5
Density Ratio (%)	98.5	99.5	100.0	97.5	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 16/05/2024 to 17/05/2024



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Accreditation number: 19902

Approved By:

B. Wild

B. Wild
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	6
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	21/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	107245	107246	107247	-	-
Field Test Number:	6	7	8	-	-
Date - Field Tested:	13/05/2024	13/05/2024	13/05/2024	-	-
Time - Field Tested:	1050	1100	1110	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Gladden Street	Lot: 390	Plenty Place	-	-
Location/Chainage/Easting: (m)	E: 7595.03	E: 7686.15	E: 7672.79	-	-
Position/Offset/Northing: (m)	N: 40272.86	N: 40224.47	N: 40247.17	-	-
Level/Layer/R.L.	RL: 64.21	RL: 67.67	RL: 67.42	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.13	2.17	2.18	-	-
Field Dry Density: (t/m ³)	1.94	1.98	1.98	-	-
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content: (%)	9.5	9.5	9.5	-	-
Adjusted Lab OMC: (%)	11.7	11.5	11.6	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density: (t/m ³)	2.13	2.24	2.22	-	-
Adjusted Lab Max CWD: (t/m ³)	2.13	2.24	2.22	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	-	-
Moisture Ratio (%)	81.0	82.0	83.0	-	-
Density Ratio (%)	100.0	97.0	98.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling),

Remarks Regarding the Lot.

Laboratory testing 16/05/2024 to 17/05/2024



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Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	7
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	21/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

	107378	107379	107380	107381	107382
Sample Number:	107378	107379	107380	107381	107382
Field Test Number:	1	2	3	4	5
Date - Field Tested:	14/05/2024	14/05/2024	14/05/2024	14/05/2024	14/05/2024
Time - Field Tested:	1000	1005	1010	1015	1020
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:7603.00	E:7616.16	E:7624.52	E:7648.26	E:7694.28
Position/Offset/Northing:	(m) N:40227.78	N:40223.63	N:40212.45	N:40226.98	N:40240.71
Level/Layer/R.L.	RL:63.41	RL:63.96	RL:64.09	RL:65.38	RL:68.83
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.11	2.11	1.95	2.08	2.02
Field Dry Density:	(t/m ³)	1.83	1.82	1.73	1.87	1.75
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	15.5	15.5	12.5	11.0	15.5
Adjusted Lab OMC:	(%)	15.4	14.8	13.0	10.8	16.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.16	2.01	2.12	2.13
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.16	2.01	2.12	2.13
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	At OMC	1.0% Wetter than OMC	0.5% Drier than OMC	At OMC	0.5% Drier than OMC
Moisture Ratio	(%)	100.5	105.5	97.5	100.0	97.0
Density Ratio	(%)	99.5	97.5	97.5	97.5	95.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.6	8	97.24	1.34	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 16/05/2024 to 20/05/2024



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Approved By:

B. Wild

B. Wild
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	7
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	21/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	107383	107384	107385	-	-
Field Test Number:	6	7	8	-	-
Date - Field Tested:	14/05/2024	14/05/2024	14/05/2024	-	-
Time - Field Tested:	1025	1030	1035	-	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:7681.71	E:7610.40	E:7664.23	-	-
Position/Offset/Northing:	(m) N:40257.80	N:40276.81	N:40287.69	-	-
Level/Layer/R.L.	RL:68.87	RL:65.35	RL:63.28	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.05	1.97	1.99	-	-
Field Dry Density:	(t/m ³)	1.77	1.72	1.72	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	16.0	15.0	15.5	-	-
Adjusted Lab OMC:	(%)	16.2	15.0	15.6	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.02	2.07	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.02	2.07	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Drier than OMC	At OMC	At OMC	-	-
Moisture Ratio	(%)	97.5	98.5	100.5	-	-
Density Ratio	(%)	97.5	97.5	96.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.6	8	97.24	1.34	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 16/05/2024 to 20/05/2024



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**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	8
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	22/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

	107542	107543	107544	107545	107546
Sample Number:	1	2	3	4	5
Field Test Number:	15/05/2024	15/05/2024	15/05/2024	15/05/2024	15/05/2024
Date - Field Tested:	1000	1010	1020	1030	1040
Time - Field Tested:	On Site - General Fill				
Material Source / Type:	Remarks / Notes:				
Control Line:	LOT:387	LOT:413	LOT:409	LOT:406	LOT:404
Location/Chainage/Easting: (m)	E: 7689.75	E: 7650.12	E: 7577.49	E: 7539.94	E: 7506.50
Position/Offset/Northing: (m)	N: 40279.37	N: 40281.11	N: 40292.55	N: 40299.50	N: 40300.23
Level/Layer/R.L.	RL: 69.58	RL: 67.86	RL: 64.63	RL: 63.24	RL: 61.99
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.01	2.06	2.08	2.15	2.15
Field Dry Density: (t/m ³)	1.81	1.85	1.87	1.92	1.88
Retained Oversize (Wet basis): (%)	2% on 19.0mm	3% on 19.0mm	4% on 19.0mm	5% on 19.0mm	7% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	11.0	11.5	11.5	12.0	14.5
Adjusted Lab OMC: (%)	11.5	11.9	12.1	12.4	15.1
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.09	2.10	2.10	2.13	2.08
Adjusted Lab Max CWD: (t/m ³)	2.10	2.11	2.11	2.15	2.11
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	0.5% Drier than OMC	0.5% Drier than OMC	0.5% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC
Moisture Ratio (%)	95.0	96.5	95.0	96.5	94.5
Density Ratio (%)	95.5	97.5	98.5	100.0	102.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	10	98.01	2.04	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 20/05/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

B. Wild

B. Wild
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	8
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	22/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	107547	107548	107549	107550	107551
Field Test Number:	6	7	8	9	10
Date - Field Tested:	15/05/2024	15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time - Field Tested:	1050	1100	1110	1120	1130
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Gladden Street	Basin Wall	LOT:422	LOT:388	LOT:413
Location/Chainage/Easting: (m)	E: 7486.18	E: 7475.55	E: 7558.35	E: 7671.89	E: 7636.89
Position/Offset/Northing: (m)	N: 40307.99	N: 40324.08	N: 40325.37	N: 40273.90	N: 40288.82
Level/Layer/R.L.	RL: 61.97	RL: 62.53	RL: 64.13	RL: 71.84	RL: 68.39
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	1.96	2.05	2.04	2.07	2.09
Field Dry Density: (t/m ³)	1.73	1.79	1.79	1.81	1.83
Retained Oversize (Wet basis): (%)	5% on 19.0mm	4% on 19.0mm	4% on 19.0mm	6% on 19.0mm	0% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	13.0	14.0	14.0	14.5	14.0
Adjusted Lab OMC: (%)	14.0	15.0	14.7	14.9	14.8
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.04	2.11	2.09	2.10	2.11
Adjusted Lab Max CWD: (t/m ³)	2.06	2.12	2.10	2.11	2.11
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC
Moisture Ratio (%)	94.0	94.0	96.0	95.5	94.5
Density Ratio (%)	95.0	96.5	97.5	98.0	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	10	98.01	2.04	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 20/05/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	9
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	22/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	107726	107727	107728	107729	107730
Field Test Number:	1	2	3	4	5
Date - Field Tested:	16/05/2024	16/05/2024	16/05/2024	16/05/2024	16/05/2024
Time - Field Tested:	1000	1005	1010	1015	1020
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	LOT:413	LOT:410	LOT:408	LOT:404	LOT:403
Location/Chainage/Easting: (m)	E:7636.84	E:7600.33	E:7565.45	E:7524.34	E:7517.97
Position/Offset/Northing: (m)	N:40282.22	N:40288.66	N:40298.08	N:40304.12	N:40324.24
Level/Layer/R.L.	RL:70.37	RL:68.32	RL:72.53	RL:66.47	RL:66.23
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.04	2.03	2.02	2.04	2.13
Field Dry Density: (t/m ³)	1.79	1.77	1.89	1.88	1.91
Retained Oversize (Wet basis): (%)	2% on 19.0mm	1% on 19.0mm	1% on 19.0mm	5% on 19.0mm	2% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	14.0	14.0	7.0	8.5	11.0
Adjusted Lab OMC: (%)	16.0	16.2	8.9	10.3	13.2
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.08	2.11	2.09	2.12	2.16
Adjusted Lab Max CWD: (t/m ³)	2.08	2.11	2.09	2.14	2.17
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC
Moisture Ratio (%)	86.5	87.5	81.0	82.5	84.5
Density Ratio (%)	98.0	96.0	97.0	95.5	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.3	8	97.23	2.04	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 20/05/2024



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Accreditation number: 19902

Approved By:

B. Wild

B. Wild
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	9
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	22/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	107731	107732	107733	-	-
Field Test Number:	6	7	8	-	-
Date - Field Tested:	16/05/2024	16/05/2024	16/05/2024	-	-
Time - Field Tested:	1025	1030	1035	-	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	LOT:422	LOT:415	LOT:417	-	-
Location/Chainage/Easting: (m)	E:7556.92	E:7641.05	E:7623.84	-	-
Position/Offset/Northing: (m)	N:40326.35	N:40315.20	N:40322.26	-	-
Level/Layer/R.L.	RL:66.32	RL:70.17	RL:69.70	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.14	2.05	2.05	-	-
Field Dry Density: (t/m ³)	1.92	1.87	1.88	-	-
Retained Oversize (Wet basis): (%)	0% on 19.0mm	7% on 19.0mm	7% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content: (%)	11.5	9.5	9.0	-	-
Adjusted Lab OMC: (%)	13.6	11.8	10.6	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density: (t/m ³)	2.11	2.13	2.10	-	-
Adjusted Lab Max CWD: (t/m ³)	2.11	2.15	2.12	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMC	-	-
Moisture Ratio (%)	86.0	81.0	83.5	-	-
Density Ratio (%)	101.5	95.0	97.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.3	8	97.23	2.04	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 20/05/2024



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**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	10
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	27/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	107843	107844	107845	107846	107847
Field Test Number:	1	2	3	4	5
Date - Field Tested:	20/05/2024	20/05/2024	20/05/2024	20/05/2024	20/05/2024
Time - Field Tested:	1400	1405	1410	1415	1420
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 419	Lot 421	Lot 422	Lot 423	Lot 424
Location/Chainage/Easting:	(m) E: 7605.23	E: 7571.41	E: 7559.13	E: 7548.47	E: 7535.38
Position/Offset/Northing:	(m) N: 40322.70	N: 40330.40	N: 40337.63	N: 40345.63	N: 40343.48
Level/Layer/R.L.	RL: 67.07	RL: 65.52	RL: 64.99	RL: 64.86	RL: 64.19
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.21	2.19	2.16	2.11	2.10
Field Dry Density:	(t/m ³)	2.07	2.05	2.03	1.92	1.91
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	6.5	6.5	6.5	10.0	10.0
Adjusted Lab OMC:	(%)	7.9	8.0	7.7	11.7	11.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.15	2.14	2.15	2.13
Adjusted Lab Max CWD:	(t/m ³)	2.13	2.15	2.14	2.15	2.13
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	82.0	82.5	84.0	87.5	86.0
Density Ratio	(%)	103.5	101.5	101.0	98.5	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.0	10	99.66	1.68	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 24/05/2024



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Approved By:

A. Lenkeit
Approved Signatory

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Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	10
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	27/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

	107848	107849	107850	107851	107852
Sample Number:	6	7	8	9	10
Field Test Number:	20/05/2024	20/05/2024	20/05/2024	20/05/2024	20/05/2024
Date - Field Tested:	1425	1430	1435	1440	1445
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 425	Lot 425	-	-	-
Location/Chainage/Easting:	(m) E: 7521.63	E: 7516.56	E: 7533.73	E: 7557.04	E: 7592.45
Position/Offset/Northing:	(m) N: 40342.82	N: 40357.27	N: 40356.11	N: 40353.66	N: 40351.05
Level/Layer/R.L.	RL: 63.82	RL: 64.44	RL: 64.58	RL: 65.40	RL: 67.58
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.13	2.13	2.12	2.12
Field Dry Density:	(t/m ³)	1.94	1.93	1.94	1.98	1.99
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	10.0	10.0	6.5	6.5
Adjusted Lab OMC:	(%)	11.5	11.6	11.4	7.9	8.0
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.14	2.15	2.16	2.14	2.15
Adjusted Lab Max CWD:	(t/m ³)	2.14	2.15	2.16	2.14	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	84.5	87.5	86.5	82.5	79.0
Density Ratio	(%)	99.5	99.0	98.5	98.5	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.0	10	99.66	1.68	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 24/05/2024



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**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	11
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	29/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	107853	107854	107855	107856	107857
Field Test Number:	1	2	3	4	5
Date - Field Tested:	21/05/2024	21/05/2024	21/05/2024	21/05/2024	21/05/2024
Time - Field Tested:	1000	1010	1020	1030	1040
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 7568.59	E: 7543.59	E: 7522.89	E: 7541.70	E: 7553.45
Position/Offset/Northing:	(m) N: 40354.77	N: 40360.91	N: 40364.94	N: 40391.73	N: 40406.56
Level/Layer/R.L.	RL: 66.21	RL: 65.17	RL: 64.81	RL: 67.55	RL: 69.28
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.16	2.09	2.11	2.12	2.15
Field Dry Density:	(t/m ³)	1.98	1.89	1.92	1.89	1.92
Retained Oversize (Wet basis):	(%)	8% on 19.0mm	7% on 19.0mm	8% on 19.0mm	8% on 19.0mm	7% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	10.5	10.0	12.0	12.0
Adjusted Lab OMC:	(%)	11.1	12.6	12.2	14.0	14.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.11	2.12	2.11	2.14	2.12
Adjusted Lab Max CWD:	(t/m ³)	2.14	2.15	2.14	2.16	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%)	81.0	82.5	84.0	84.5	84.0
Density Ratio	(%)	101.0	97.0	99.0	98.0	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	8	98.11	1.93	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 27/05/2024



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Approved By:

A. Lenkeit
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	11
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	29/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	107858	107859	107860	-	-
Sample Number:	6	7	8	-	-
Field Test Number:	21/05/2024	21/05/2024	21/05/2024	-	-
Date - Field Tested:	1050	1100	1110	-	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:	-				
Remarks / Notes:	-				
Control Line:	-				
Location/Chainage/Easting:	(m) E: 7557.32	E: 7555.49	E: 7638.25	-	-
Position/Offset/Northing:	(m) N: 40416.78	N: 40432.49	N: 40202.48	-	-
Level/Layer/R.L.	RL: 70.66	RL: 71.86	RL: 65.37	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.05	2.07	-	-
Field Dry Density:	(t/m ³)	1.91	1.84	1.84	-	-
Retained Oversize (Wet basis):	(%)	7% on 19.0mm	9% on 19.0mm	7% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	12.0	11.5	12.5	-	-
Adjusted Lab OMC:	(%)	14.0	14.0	14.7	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.13	2.12	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.17	2.16	2.14	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	-	-
Moisture Ratio	(%)	85.0	84.0	86.0	-	-
Density Ratio	(%)	98.0	95.0	96.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	8	98.11	1.93	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 27/05/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	See Civil Pty Ltd	Report No:	13
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	3/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108091	108092	108093	108094	108095
Field Test Number:	1	2	3	4	5
Date - Field Tested:	22/05/2024	22/05/2024	22/05/2024	22/05/2024	22/05/2024
Time - Field Tested:	1000	1010	1020	1030	1040
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 379	Lot 378	Lot 377	Lot 376	Lot 392
Location/Chainage/Easting:	(m) E: 7731.44	E: 7735.04	E: 7724.55	E: 7714.57	E: 7700.67
Position/Offset/Northing:	(m) N: 40263.37	N: 40252.09	N: 40231.00	N: 40208.63	N: 40187.80
Level/Layer/R.L.	RL: 72.04	RL: 71.77	RL: 70.55	RL: 69.15	RL: 68.10
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.06	2.13	2.13	2.08	2.12
Field Dry Density:	(t/m ³)	1.87	1.94	1.93	1.88	1.93
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	10.0	10.5	10.5	10.0
Adjusted Lab OMC:	(%)	12.0	12.1	12.7	11.7	12.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.05	2.09	2.13	2.10	2.15
Adjusted Lab Max CWD:	(t/m ³)	2.05	2.09	2.13	2.10	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	1.0% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%)	83.0	83.0	83.0	90.0	83.5
Density Ratio	(%)	101.0	102.0	100.0	99.0	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.3	8	99.90	1.35	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 27/05/2024

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	Accreditation number: 19902	



ASCT Brisbane South

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	13
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	3/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	108096	108097	108098	-	-
Sample Number:	6	7	8	-	-
Field Test Number:	22/05/2024	22/05/2024	22/05/2024	-	-
Date - Field Tested:	1050	1100	1110	-	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 393	Lot 394	Lot 395	-	-
Location/Chainage/Easting:	(m) E: 7689.62	E: 7674.60	E: 7663.57	-	-
Position/Offset/Northing:	(m) N: 40181.39	N: 40178.44	N: 40190.62	-	-
Level/Layer/R.L.	RL: 67.16	RL: 66.57	RL: 66.20	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.11	2.17	2.11	-	-
Field Dry Density:	(t/m ³)	1.92	1.97	1.91	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	10.0	10.5	10.5	-	-
Adjusted Lab OMC:	(%)	12.2	11.5	11.7	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.18	2.16	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.18	2.16	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	-	-
Moisture Ratio	(%)	83.5	89.5	89.5	-	-
Density Ratio	(%)	100.5	99.5	98.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.3	8	99.90	1.35	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 27/05/2024



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Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	14
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	4/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108169	108170	108171	108172	108173
Field Test Number:	1	2	3	4	5
Date - Field Tested:	23/01/1900	23/01/1900	23/01/1900	23/01/1900	23/01/1900
Time - Field Tested:	1010	1015	1025	1035	1045
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 384	Lot 385	Lot 385	Lot 386	Lot 387
Location/Chainage/Easting:	(m) E: 7701.63	E: 7690.72	E: 7674.48	E: 7684.23	E: 7705.94
Position/Offset/Northing:	(m) N: 40324.05	N: 40310.76	N: 40314.39	N: 40287.59	N: 40273.30
Level/Layer/R.L.	RL: 72.35	RL: 71.16	RL: 70.44	RL: 70.06	RL: 70.82
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.06	2.07	2.05	2.06	2.19
Field Dry Density:	(t/m ³)	1.86	1.87	1.85	1.86	1.96
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	5% on 19.0mm	5% on 19.0mm	4% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.5	10.5	10.5	11.0	11.5
Adjusted Lab OMC:	(%)	12.3	11.9	12.1	11.8	12.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.08	2.12	2.15	2.18
Adjusted Lab Max CWD:	(t/m ³)	2.13	2.09	2.13	2.16	2.19
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC
Moisture Ratio	(%)	87.0	90.0	88.5	94.0	89.5
Density Ratio	(%)	96.5	99.0	96.0	95.5	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.4	8	98.33	2.02	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 27/05/2024 to 29/05/2024



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Approved By:

A. Lenkeit
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	14
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	4/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	108174	108175	108176	-	-
Sample Number:	6	7	8	-	-
Field Test Number:	23/05/2024	23/05/2024	23/05/2024	-	-
Date - Field Tested:	1055	1105	1115	-	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 416	Lot 417	Lot 418	-	-
Location/Chainage/Easting:	(m) E: 7648.08	E: 7631.66	E: 7611.98	-	-
Position/Offset/Northing:	(m) N: 40319.39	N: 40336.68	N: 40340.76	-	-
Level/Layer/R.L.	RL: 69.35	RL: 69.20	RL: 68.35	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.17	2.17	2.18	-	-
Field Dry Density:	(t/m ³)	1.97	1.93	1.95	-	-
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	5% on 19.0mm	4% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	10.5	12.5	12.0	-	-
Adjusted Lab OMC:	(%)	12.0	13.6	13.4	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.19	2.17	2.15	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.20	2.18	2.16	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	-	-
Moisture Ratio	(%)	89.0	91.0	90.0	-	-
Density Ratio	(%)	99.0	99.5	101.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.4	8	98.33	2.02	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 27/05/2024 to 29/05/2024



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Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	12
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	30/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

	108247	108248	108249	108250	108251
Sample Number:	1	2	3	4	5
Field Test Number:	1	2	3	4	5
Date - Field Tested:	24/05/2024	24/05/2024	24/05/2024	24/05/2024	24/05/2024
Time - Field Tested:	1000	1010	1020	1030	1400
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 7688.50	E: 7666.81	E: 7629.24	E: 7591.35	E: 7550.67
Position/Offset/Northing:	(m) N: 40340.95	N: 40347.46	N: 40344.80	N: 40350.40	N: 40365.55
Level/Layer/R.L.	RL: 72.53	RL: 71.34	RL: 69.52	RL: 67.82	RL: 66.23
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.07	1.99	2.08	2.04	2.09
Field Dry Density:	(t/m ³)	1.89	1.74	1.89	1.80	1.90
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	3% on 19.0mm	1% on 19.0mm	4% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	14.5	10.0	13.5	10.0
Adjusted Lab OMC:	(%)	11.0	16.3	11.4	15.7	11.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.09	2.06	2.12	2.11	2.15
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.07	2.12	2.12	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	84.0	89.0	87.0	85.5	85.0
Density Ratio	(%)	98.0	96.0	98.0	96.5	97.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.5	8	96.94	1.05	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 28/05/2024 to 29/05/2024



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Accreditation number: 19902

Approved By:

B. Wild

B. Wild
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	12
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	30/05/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108252	108253	108254	-	-
Field Test Number:	6	7	8	-	-
Date - Field Tested:	24/05/2024	24/05/2024	24/05/2024	-	-
Time - Field Tested:	1410	1420	1430	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 7526.71	E: 7529.36	E: 7551.36	-	-
Position/Offset/Northing:	(m) N: 40369.99	N: 40316.42	N: 40319.32	-	-
Level/Layer/R.L.	RL: 65.81	RL: 63.55	RL: 65.04	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.03	2.04	2.04	-	-
Field Dry Density:	(t/m ³)	1.83	1.80	1.83	-	-
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	3% on 19.0mm	2% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	11.0	13.5	11.5	-	-
Adjusted Lab OMC:	(%)	12.9	15.8	13.6	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.07	2.08	2.13	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.08	2.09	2.14	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	-	-
Moisture Ratio	(%)	84.5	86.0	84.0	-	-
Density Ratio	(%)	97.0	97.5	95.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.5	8	96.94	1.05	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 28/05/2024 to 29/05/2024



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Accreditation number: 19902

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Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: Bellevue Stages 12-18 Earthworks
 Component: Bulk Earthworks-Level 1
 Lot Number: -

Report No: 15
 Report Date: 5/06/2024
 Project No: 1886
 Test Request: -
 ITP/PCP:

Sample Information & Location

Sample Number:	108367	108368	108369	108370	108371
Field Test Number:	1	2	3	4	5
Date - Field Tested:	27/05/2024	27/05/2024	27/05/2024	27/05/2024	27/05/2024
Time - Field Tested:	1000	1005	1010	1015	1020
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 356	Lot 355	Lot 354	Lot 354	Lot 421
Location/Chainage/Easting:	(m) E: 7642.86	E: 7631.22	E: 7618.71	E: 7625.40	E: 7576.23
Position/Offset/Northing:	(m) N: 40394.59	N: 40394.67	N: 40398.07	N: 40406.87	N: 40333.97
Level/Layer/R.L.	RL: 73.92	RL: 73.58	RL: 73.17	RL: 72.91	RL: 66.85
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.11	2.11	2.15	2.14	2.07
Field Dry Density:	(t/m ³)	1.89	1.89	1.92	1.92	1.86
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	11.5	11.5	11.5	11.5
Adjusted Lab OMC:	(%)	10.8	10.5	11.0	10.6	10.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.14	2.16	2.18	2.16	2.14
Adjusted Lab Max CWD:	(t/m ³)	2.14	2.16	2.18	2.16	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Wetter than OMC	1.0% Wetter than OMC	0.5% Wetter than OMC	1.0% Wetter than OMC	1.0% Wetter than OMC
Moisture Ratio	(%)	108.0	110.0	106.0	109.0	108.5
Density Ratio	(%)	98.5	98.0	98.5	99.5	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.5	8	98.10	1.42	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 03/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	15
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	5/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks-Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	108372	108373	108374	-	-
Sample Number:	6	7	8	-	-
Field Test Number:	27/05/2024	27/05/2024	27/05/2024	-	-
Date - Field Tested:	1025	1030	1035	-	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 426	Lot 404	Lot 407	-	-
Location/Chainage/Easting:	(m) E: 7525.69	E: 7511.26	E: 7557.80	-	-
Position/Offset/Northing:	(m) N: 40326.96	N: 40310.05	N: 40297.27	-	-
Level/Layer/R.L.	RL: 64.76	RL: 63.20	RL: 64.47	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.08	2.14	2.13	-	-
Field Dry Density:	(t/m ³)	1.83	1.89	1.88	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	13.5	13.0	13.0	-	-
Adjusted Lab OMC:	(%)	12.7	12.3	11.9	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.18	2.16	2.14	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.18	2.16	2.14	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Wetter than OMC	0.5% Wetter than OMC	1.0% Wetter than OMC	-	-
Moisture Ratio	(%)	105.0	106.0	108.5	-	-
Density Ratio	(%)	95.5	99.0	99.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.5	8	98.10	1.42	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 03/06/2024



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 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	16
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	5/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks-Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108547	108548	108549	108550	108551
Field Test Number:	1	2	3	4	5
Date - Field Tested:	28/05/2024	28/05/2024	28/05/2024	28/05/2024	28/05/2024
Time - Field Tested:	1000	1010	1020	1030	1040
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot:398	Lot:397	Lot:400	Lot:400	Lot:399
Location/Chainage/Easting:	(m) E:7658.65	E:7641.16	E:7613.74	E:7620.96	E:7658.54
Position/Offset/Northing:	(m) N:40229.74	N:40220.38	N:40236.88	N:40262.40	N:40254.82
Level/Layer/R.L.	RL:67.52	RL:66.96	RL:66.32	RL:67.12	RL:67.90
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.14	2.16	2.14	2.12	2.12
Field Dry Density:	(t/m ³)	1.96	1.96	1.95	1.94	1.93
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	10.0	9.5	9.5	10.0
Adjusted Lab OMC:	(%)	11.3	11.0	10.4	10.3	10.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.16	2.17	2.15	2.14
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.16	2.17	2.15	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC
Moisture Ratio	(%)	82.5	91.5	91.5	94.0	92.5
Density Ratio	(%)	100.0	100.0	98.5	98.5	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.7	8	99.14	0.93	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 04/06/2024



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Approved By:

A. Lenkeit
Approved Signatory



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Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	16
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	5/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks-Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	108552	108553	108554	-	-
Sample Number:	6	7	8	-	-
Field Test Number:	28/05/2024	28/05/2024	28/05/2024	-	-
Date - Field Tested:	1050	1100	1110	-	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot:413	Lot:414	Lot:415	-	-
Location/Chainage/Easting:	(m) E:7676.98	E:7635.24	E:7636.49	-	-
Position/Offset/Northing:	(m) N:40276.98	N:40300.26	N:40312.44	-	-
Level/Layer/R.L.	RL:68.82	RL:69.14	RL:69.73	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.12	2.18	2.12	-	-
Field Dry Density:	(t/m ³)	1.93	1.99	1.93	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	10.0	9.5	10.0	-	-
Adjusted Lab OMC:	(%)	11.0	10.1	10.7	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.16	2.16	2.15	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.16	2.15	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	-	-
Moisture Ratio	(%)	92.0	92.0	91.5	-	-
Density Ratio	(%)	98.5	101.0	98.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.7	8	99.14	0.93	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 04/06/2024



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 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	17
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	7/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks-Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108555	108556	108557	108558	108559
Field Test Number:	1	2	3	4	5
Date - Field Tested:	29/05/2024	29/05/2024	29/05/2024	29/05/2024	29/05/2024
Time - Field Tested:	1010	1020	1030	1040	1400
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 7612.19	E: 7644.41	E: 7657.44	E: 7650.02	E: 7601.95
Position/Offset/Northing:	(m) N: 40322.07	N: 40317.98	N: 40323.20	N: 40338.80	N: 40345.80
Level/Layer/R.L.	RL: 69.39	RL: 70.42	RL: 70.72	RL: 70.81	RL: 68.90
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.08	2.07	2.06	2.08	2.07
Field Dry Density:	(t/m ³)	1.92	1.91	1.91	1.91	1.92
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.0	8.5	8.0	8.5	8.0
Adjusted Lab OMC:	(%)	9.5	9.3	9.3	10.6	9.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.10	2.12	2.10	2.10
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.10	2.12	2.10	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	85.0	90.0	86.5	80.0	85.5
Density Ratio	(%)	98.0	98.5	97.0	99.0	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	8	98.95	1.82	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	17
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	7/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks-Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	108560	108561	108562	-	-
Sample Number:	6	7	8	-	-
Field Test Number:	29/05/2024	29/05/2024	29/05/2024	-	-
Date - Field Tested:	1410	1420	1430	-	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:	-				
Remarks / Notes:	-				
Control Line:	-				
Location/Chainage/Easting:	(m) E: 7554.66	E: 7534.1	E: 7525.27	-	-
Position/Offset/Northing:	(m) N: 40345.70	N: 40339.29	N: 40343.38	-	-
Level/Layer/R.L.	RL: 66.93	RL: 65.83	RL: 65.32	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.08	2.05	2.08	-	-
Field Dry Density:	(t/m ³)	1.93	1.90	1.92	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	7.5	8.0	8.0	-	-
Adjusted Lab OMC:	(%)	9.8	9.5	10.1	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.06	2.11	2.03	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.06	2.11	2.03	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	-	-
Moisture Ratio	(%)	78.5	85.0	79.5	-	-
Density Ratio	(%)	101.0	97.0	102.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	8	98.95	1.82	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	18
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	10/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks-Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108731	108732	108733	108734	108735
Field Test Number:	1	2	3	4	5
Date - Field Tested:	30/05/2024	30/05/2024	30/05/2024	30/05/2024	30/05/2024
Time - Field Tested:	1000	1010	1020	1030	1040
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	LOT:350	-	LOT:346	LOT:347
Location/Chainage/Easting:	(m) E:7574.63	E:7576.89	E:7580.81	E:7578.26	E:7573.48
Position/Offset/Northing:	(m) N:40380.52	N:40397.33	N:40416.01	N:40440.93	N:40435.50
Level/Layer/R.L.	RL:68.07	RL:69.01	RL:70.54	RL:72.27	RL:71.85
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.12	2.12	2.11	2.00
Field Dry Density:	(t/m ³)	1.88	1.87	1.87	1.86	1.77
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	5% on 19.0mm	6% on 19.0mm	6% on 19.0mm	5% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	13.0	13.5	13.0	13.0	13.0
Adjusted Lab OMC:	(%)	14.0	14.1	13.9	13.8	13.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.17	2.14	2.18	2.07
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.18	2.15	2.19	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC
Moisture Ratio	(%)	93.5	95.0	94.0	96.0	94.0
Density Ratio	(%)	98.5	97.5	98.5	96.0	95.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.7	8	97.45	1.55	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 04/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	18
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	10/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks-Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	108736	108737	108738		
Sample Number:	6	7	8	-	-
Field Test Number:	30/05/2024	30/05/2024	30/05/2024	-	-
Date - Field Tested:	1050	1100	1110	-	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	LOT:347	LOT:348	LOT:348	-	-
Location/Chainage/Easting:	(m) E:7571.48	E:7571.22	E:7570.91	-	-
Position/Offset/Northing:	(m) N:40430.65	N:40425.20	N:40419.41	-	-
Level/Layer/R.L.	RL:71.37	RL:71.02	RL:70.43	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.03	2.16	2.15	-	-
Field Dry Density:	(t/m ³)	1.79	1.91	1.90	-	-
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	5% on 19.0mm	6% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	13.0	13.0	13.0	-	-
Adjusted Lab OMC:	(%)	14.1	14.0	13.7	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.11	2.15	2.18	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.16	2.19	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC	-	-
Moisture Ratio	(%)	92.5	94.0	94.5	-	-
Density Ratio	(%)	95.5	100.0	98.0	-	-

<i>Specified Density Ratio</i>		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
<i>Minimum (%)</i>	95	96.7	8	97.45	1.55	0.453
<i>Maximum (%)</i>		-	-	-	-	-
<i>Specified Moisture Ratio</i>		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
<i>Minimum (%)</i>		-	-	-	-	-
<i>Maximum (%)</i>		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 04/06/2024



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Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	19
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	11/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108918	108919	108920	108921	108922
Field Test Number:	1	2	3	4	5
Date - Field Tested:	31/05/2024	31/05/2024	31/05/2024	31/05/2024	31/05/2024
Time - Field Tested:	1030	1040	1050	1100	1110
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	LOT:349	LOT:349	LOT:350	LOT:351	-
Location/Chainage/Easting:	(m) E:7570.54	E:7566.66	E:7558.49	E:7549.13	E:7593.05
Position/Offset/Northing:	(m) N:40411.32	N:40405.22	N:40394.09	N:40383.52	N:40345.82
Level/Layer/R.L.	RL:70.16	RL:69.50	RL:68.25	RL:67.25	RL:68.60
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.10	2.13	2.11	2.15	2.14
Field Dry Density:	(t/m ³)	1.89	1.92	1.91	1.93	1.93
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.0	11.0	10.5	11.5	11.0
Adjusted Lab OMC:	(%)	12.2	12.6	12.3	13.0	12.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.13	2.13	2.11	2.12
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.13	2.13	2.11	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	89.5	87.5	87.5	87.5	88.0
Density Ratio	(%)	99.5	100.0	99.0	102.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.5	6	100.13	1.14	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 05/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory



ASCT Brisbane South

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	19
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	11/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108923	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	31/05/2024	-	-	-	-
Time - Field Tested:	1120	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	LOT:393	-	-	-	-
Location/Chainage/Easting:	(m) E:7694.81	-	-	-	-
Position/Offset/Northing:	(m) N:40192.45	-	-	-	-
Level/Layer/R.L.	RL:67.42	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	-	-	-	-
Field Dry Density:	(t/m ³)	1.92	-	-	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	11.0	-	-	-	-
Adjusted Lab OMC:	(%)	12.9	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.14	-	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.14	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	85.5	-	-	-	-
Density Ratio	(%)	99.0	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.5	6	100.13	1.14	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 05/06/2024

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.
Accreditation number:	19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	20
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	13/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108924	108925	108926	108927	108928
Field Test Number:	1	2	3	4	5
Date - Field Tested:	3/06/2024	3/06/2024	3/06/2024	3/06/2024	3/06/2024
Time - Field Tested:	1000	1010	1020	1030	1040
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	LOT:351	-	-	LOT:423	LOT:422
Location/Chainage/Easting:	(m) E:7552.13	E:7510.61	E:7502.40	E:7542.96	E:7559.28
Position/Offset/Northing:	(m) N:40374.49	N:40356.57	N:40342.17	N:40322.84	N:40323.96
Level/Layer/R.L.	RL:67.04	RL:65.47	RL:64.05	RL:66.52	RL:67.31
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.19	2.16	2.18	2.18	2.13
Field Dry Density:	(t/m ³)	1.98	1.95	1.98	1.96	1.92
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.5	11.0	10.5	11.0	11.0
Adjusted Lab OMC:	(%)	11.1	11.6	11.0	11.9	11.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.16	2.15	2.17	2.17
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.16	2.15	2.17	2.17
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC
Moisture Ratio	(%)	93.5	93.5	94.0	93.0	92.5
Density Ratio	(%)	102.0	100.0	101.5	100.0	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.9	8	99.61	1.54	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 11/06/2024 to 12/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	20
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	13/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

	108929	108930	108931	-	-
Sample Number:	6	7	8	-	-
Field Test Number:	3/06/2024	3/06/2024	3/06/2024	-	-
Date - Field Tested:	1050	1100	1110	-	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	LOT:421	LOT:417	LOT:416	-	-
Location/Chainage/Easting:	(m) E:7581.80	E:7620.73	E:7635.78	-	-
Position/Offset/Northing:	(m) N:40327.52	N:40321.62	N:40328.84	-	-
Level/Layer/R.L.	RL:68.34	RL:69.79	RL:70.89	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.15	2.14	-	-
Field Dry Density:	(t/m ³)	1.93	1.94	1.94	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	10.5	10.5	10.5	-	-
Adjusted Lab OMC:	(%)	11.2	11.5	11.5	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.17	2.18	2.18	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.17	2.18	2.18	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	-	-
Moisture Ratio	(%)	93.5	93.0	92.5	-	-
Density Ratio	(%)	98.0	99.0	98.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.9	8	99.61	1.54	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 11/06/2024 to 12/06/2024



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Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	21
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	108972	108973	108974	108975	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	4/06/2024	4/06/2024	4/06/2024	4/06/2024	-
Time - Field Tested:	1040	1050	1100	1110	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 394	Lot: 430	Lot: 429	Lot : 428	
Location/Chainage/Easting:	(m) E: 7682.18	E: 7538.81	E: 7536.70	E: 7539.63	-
Position/Offset/Northing:	(m) N: 40191.67	N: 40433.18	N: 40420.98	N: 40407.53	-
Level/Layer/R.L.	RL: 67.06	RL: 71.20	RL: 70.30	RL: 69.21	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	1.93	1.91	1.90	1.90	-
Field Dry Density:	(t/m ³)	1.72	1.71	1.69	1.69	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	12.0	12.0	12.0	12.5	-
Adjusted Lab OMC:	(%)	12.5	12.7	12.8	13.1	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.01	1.99	2.00	1.99	-
Adjusted Lab Max CWD:	(t/m ³)	2.01	1.99	2.00	1.99	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC	0.5% Drier than OMC	-
Moisture Ratio	(%)	94.5	93.5	95.0	95.0	-
Density Ratio	(%)	96.0	96.0	95.0	96.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.4	4	95.70	0.50	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 11/06/2024 to 12/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	23
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	109047	109048	109049	109050	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	5/06/2024	5/06/2024	5/06/2024	5/06/2024	-
Time - Field Tested:	1010	1020	1040	1050	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 467	Lot 468	Lot 469	Lot 485	
Location/Chainage/Easting:	(m) 5.0m South 4.0m East	9.0m South 8.0m East	10.0m South 7.0m East	11.0m South 15.0m East	-
Position/Offset/Northing:	(m) O/S North, West side of lot	O/S North, West side of lot	O/S North, West side of lot	O/S North, West side of lot	-
Level/Layer/R.L.	FSL of Lot	FSL of Lot	FSL of Lot	FSL of Lot	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.15	2.13	2.13	2.14	-
Field Dry Density:	(t/m ³)	1.87	1.83	1.83	1.85	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	15.5	16.0	16.5	16.0	-
Adjusted Lab OMC:	(%)	16.7	16.7	17.1	16.3	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.07	2.10	2.09	2.10	-
Adjusted Lab Max CWD:	(t/m ³)	2.07	2.10	2.09	2.10	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC	0.5% Drier than OMC	-
Moisture Ratio	(%)	92.0	95.5	95.5	97.0	-
Density Ratio	(%)	104.0	101.0	102.0	102.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	101.5	4	102.23	1.16	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 11/06/2024 to 12/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

B. Wild

B. Wild
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	22
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	18/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	109130	109131	109132	109133	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	6/06/2024	6/06/2024	6/06/2024	6/06/2024	-
Time - Field Tested:	1000	1010	1020	1030	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	LOT: 438	LOT: 437	LOT: 368	LOT: 367	-
Location/Chainage/Easting:	(m) 10m West 14m North	7m West 16m North	10m West 4m North	15m West 7m North	-
Position/Offset/Northing:	(m) From South East corner of Lot	From South East corner of Lot	From South East corner of Lot	From South East corner of Lot	-
Level/Layer/R.L.	FSL of Lot	FSL of Lot	FSL of Lot	FSL of Lot	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.07	2.18	2.16	2.16	-
Field Dry Density:	(t/m ³) 1.87	1.97	1.96	1.95	-
Retained Oversize (Wet basis):	(%) 0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%) 10.5	10.5	10.0	10.5	-
Adjusted Lab OMC:	(%) 12.5	12.4	12.3	12.8	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³) 2.13	2.15	2.15	2.14	-
Adjusted Lab Max CWD:	(t/m ³) 2.13	2.15	2.15	2.14	-
Compactive Effort:	Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%) 2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	-
Moisture Ratio	(%) 83.5	85.0	83.0	83.5	-
Density Ratio	(%) 97.0	101.5	100.5	101.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.7	4	100.03	2.02	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 13/06/2024 to 14/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	24
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	109433	109434	109435	109436	109437
Field Test Number:	1	2	3	4	5
Date - Field Tested:	10/06/2024	10/06/2024	10/06/2024	10/06/2024	10/06/2024
Time - Field Tested:	0955	1005	1010	1020	1030
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 344	Lot 345	Lot 346	Lot 347	Lot 348
Location/Chainage/Easting:	(m) 5.0m South 27m West	9.0m South 14m West	3.0m South 25m West	10m South 19m West	7.0m South 19m West
Position/Offset/Northing:	(m) From North East corner of Lot	From North East corner of Lot	From North East corner of Lot	From North East corner of Lot	From North East corner of Lot
Level/Layer/R.L.	FSL of Lot	FSL of Lot	FSL of Lot	FSL of Lot	FSL of Lot
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.03	2.02	2.03	1.95	1.93
Field Dry Density:	(t/m ³)	1.83	1.82	1.83	1.76	1.74
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.0	11.5	11.0	11.0	11.0
Adjusted Lab OMC:	(%)	11.7	12.3	12.1	11.8	11.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.09	2.10	2.02	2.00
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.09	2.10	2.02	2.00
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC
Moisture Ratio	(%)	94.0	92.5	92.5	93.5	93.0
Density Ratio	(%)	96.5	97.0	96.5	97.0	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.6	6	96.95	0.64	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 12/06/2024 to 13/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	24
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:		109438	-	-	-	-
Field Test Number:		6	-	-	-	-
Date - Field Tested:		10/06/2024	-	-	-	-
Time - Field Tested:		1040	-	-	-	-
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		Lot 349	-	-	-	-
Location/Chainage/Easting:	(m)	8.0m South 20m West	-	-	-	-
Position/Offset/Northing:	(m)	From North East corner of Lot	-	-	-	-
Level/Layer/R.L.		FSL of Lot	-	-	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	-	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	1.94	-	-	-	-
Field Dry Density:	(t/m ³)	1.75	-	-	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	11.0	-	-	-	-
Adjusted Lab OMC:	(%)	11.8	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	1.97	-	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	1.97	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	93.0	-	-	-	-
Density Ratio	(%)	98.0	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.6	6	96.95	0.64	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 12/06/2024 to 13/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 15 Elliott Court Hillcrest, QLD 4118
 Telephone: (07) 3800 7314
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	25
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	20/06/2024
Project:	Bellevue Stages 12-18 Earthworks	Project No:	1886
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	109507	109508	109509	109510	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	11/06/2024	11/06/2024	11/06/2024	11/06/2024	-
Time - Field Tested:	1400	1410	1420	1430	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	LOT:428	LOT:429	LOT:430	LOT:485	-
Location/Chainage/Easting:	(m) 5.0m off S Boundary	4.0m off S Boundary	3.0m off S Boundary	6.0m off N Boundary	-
Position/Offset/Northing:	(m) 3.0m off E Boundary	4.0m off E Boundary	2.0m off E Boundary	4.0m off W Boundary	-
Level/Layer/R.L.	FSL of Lot	FSL of Lot	FSL of Lot	FSL of Lot	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.14	2.23	2.11	2.14	-
Field Dry Density:	(t/m ³)	1.94	2.02	1.91	1.94	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	10.0	10.0	10.5	10.5	-
Adjusted Lab OMC:	(%)	11.6	11.4	12.0	11.9	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.22	2.21	2.21	2.20	-
Adjusted Lab Max CWD:	(t/m ³)	2.22	2.21	2.21	2.20	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	-
Moisture Ratio	(%)	88.0	89.0	87.0	86.5	-
Density Ratio	(%)	96.5	100.5	95.5	97.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.1	4	97.50	2.17	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 17/06/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

Appendix C

Individual Lot Certificates



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 14 _Lot 430

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 430 – Bellevue Stage 15

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 3/05/2024 and 6/02/2025.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **430** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **1886_Level 1_Bellevue Stage 15** Dated 11th February 2025.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 14 _Lot 431

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 431 – Bellevue Stage 15

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 3/05/2024 and 6/02/2025.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **431** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **1886_Level 1_Bellevue Stage 15** Dated 11th February 2025.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 14 _Lot 436

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 436 – Bellevue Stage 15

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 3/05/2024 and 6/02/2025.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **436** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **1886_Level 1_Bellevue Stage 15** Dated 11th February 2025.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 14 _Lot 437

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 437 – Bellevue Stage 15

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 3/05/2024 and 6/02/2025.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **437** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **1886_Level 1_Bellevue Stage 15** Dated 11th February 2025.

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Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



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ACN: 608 830 306
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Web: www.asct.com.au

11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 14 _Lot 438

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING LOT 438 – Bellevue Stage 15

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 3/05/2024 and 6/02/2025.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **438** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **1886_Level 1_Bellevue Stage 15** Dated 11th February 2025.

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jason.mckenna@asct.com.au



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ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
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Web: www.asct.com.au

11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 14 _Lot 467

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 467 – Bellevue Stage 15

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 3/05/2024 and 6/02/2025.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **467** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **1886_Level 1_Bellevue Stage 15** Dated 11th February 2025.

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ASCT Brisbane South
jason.mckenna@asct.com.au



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PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
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Email: brisbane.south@asct.com.au
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11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 14 _Lot 468

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 468 – Bellevue Stage 15

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 3/05/2024 and 6/02/2025.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **468** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **1886_Level 1_Bellevue Stage 15** Dated 11th February 2025.

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ASCT Brisbane South
jason.mckenna@asct.com.au



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PARK RIDGE QLD 4125
ABN: 28 608 830 306
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Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 14 _Lot 469

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING LOT 469 – Bellevue Stage 15

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 3/05/2024 and 6/02/2025.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **469** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **1886_Level 1_Bellevue Stage 15** Dated 11th February 2025.

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ASCT Brisbane South
jason.mckenna@asct.com.au



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11th February 2025

Ref No: 1886_Level 1_Bellevue Stage 14 _Lot 470

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 470 – Bellevue Stage 15

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 3/05/2024 and 6/02/2025.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **470** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **1886_Level 1_Bellevue Stage 15** Dated 11th February 2025.

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ASCT Brisbane South
jason.mckenna@asct.com.au