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A3 SCALE 1:1,000

0 10 20 30 40 50 (m)



DRAWN	CXP	Jul.13
CHECKED	VL	Jul.13
APPROVED		
ARCFIELD 52020-0200-TRX030		
SCALE (AT A3 SIZE) 1:1,000		
Prepared by Tonkin & Taylor Ltd. Ref: 52020-0200		

Ground Improvement Trials
Site 6 (Bexley)
Trial Area Layout



LEGEND

Investigation Sites

EQC CPT

Golders CPT

Existing CGD CPT

Post ground improvement
CPT after 15 days

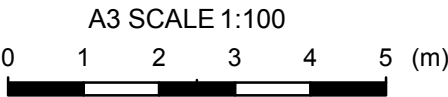
Post ground improvement
CPT after 28 (nominal) days

Rapid Impact
Compaction (RIC) location

Centerline

ID	Coordinate (mN)	Coordinate (mE)	Date Constructed	Order in which constructed	Applied Hammer drop height	# blows	Penetration depth (mm)	ID	Coordinate (mN)	Coordinate (mE)	Date Constructed	Order in which constructed	Applied Hammer drop height	# blows	Penetration depth (mm)
RIC1	5744131.11	2487456.52	10/06/2013	16	75%	41	512	RIC16	5744123.58	2487443.68	10/06/2013	7	75%	38	504
RIC2	5744126.73	2487455.43	10/06/2013	30	75%	39	501	RIC17	5744126.23	2487442.28	10/06/2013	8	75%	35	513
RIC3	5744132.38	2487452.43	10/06/2013	15	75%	36	514	RIC18	5744123.92	2487441.41	10/06/2013	6	75%	32	513
RIC4	5744133.16	2487448.29	10/06/2013	14	75%	26	517	RIC19	5744121.31	2487443.14	10/06/2013	24	75%	34	512
RIC5	5744128.46	2487451.55	10/06/2013	17	75%	38	508	RIC20	5744116.65	2487444.18	10/06/2013	22	75%	24	532
RIC6	5744123.32	2487454.84	10/06/2013	29	75%	31	506	RIC21	5744118.92	2487442.76	10/06/2013	23	75%	26	507
RIC7	5744124.06	2487450.46	10/06/2013	28	75%	37	515	RIC22	5744121.91	2487441.02	10/06/2013	3	75%	33	497
RIC8	5744126.6	2487448.63	10/06/2013	12	75%	37	515	RIC23	5744124.65	2487439.44	10/06/2013	5	75%	28	517
RIC9	5744129.35	2487447.41	10/06/2013	13	75%	34	520	RIC24	5744127.13	2487438.07	10/06/2013	4	75%	24	512
RIC10	5744130.35	2487443.22	10/06/2013	10	75%	26	518	RIC25	5744122.47	2487438.91	10/06/2013	2	75%	28	518
RIC11	5744127.72	2487444.72	10/06/2013	11	75%	30	515	RIC26	5744119.8	2487440.73	10/06/2013	21	75%	29	509
RIC12	5744125.08	2487446.16	10/06/2013	9	75%	38	512	RIC27	5744117.55	2487439.98	10/06/2013	20	75%	25	511
RIC13	5744122.56	2487447.99	10/06/2013	27	75%	40	504	RIC28	5744120.43	2487438.18	10/06/2013	19	75%	-	-
RIC14	5744119.87	2487449.4	10/06/2013	26	75%	26	519	RIC29	5744122.91	2487436.74	10/06/2013	1	75%	23	529
RIC15	5744120.85	2487445.53	10/06/2013	25	75%	33	498	RIC30	5744118.8	2487435.92	10/06/2013	18	75%	24	508

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ARCFIELD 52020-0200-TRX041		
SCALE (AT A3 SIZE) 1:100		
Prepared by Tonkin & Taylor Ltd. Ref: 52020-0200		

Ground Improvement Trials
Site 6 (Bexley)
Rapid Impact Compaction Spacing Area

FIGURE No.
1B6

Rev.
0



LEGEND

Investigation Sites

EQC CPT

Golders CPT

Existing CGD CPT

Post ground improvement
CPT after 13 days

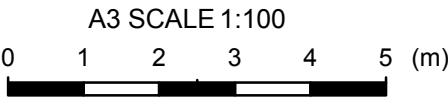
Post ground improvement
CPT after 28 (nominal) days

Rammed Aggregate
Piers (RAP) location

Centerline

ID	Coordinate (mN)	Coordinate (mE)	Date Constructed	Order in which constructed	Depth of Pier (m)	Volume of aggregate used	ID	Coordinate (mN)	Coordinate (mE)	Date Constructed	Order in which constructed	Depth of Pier (m)	Volume of aggregate used
RAP1	5744138.39	2487463.64	11/06/2013	1	4	1.5	RAP15	5744131.62	2487473.12	11/06/2013	21	4	1.5
RAP2	5744138.36	2487465.13	11/06/2013	2	4	1.5	RAP16	5744131.69	2487470.03	11/06/2013	23	4	1.5
RAP3	5744137.64	2487467.13	11/06/2013	3	4	1.5	RAP17	5744133.83	2487468.34	11/06/2013	14	4	1.5
RAP4	5744136.93	2487465.83	11/06/2013	4	4	1.5	RAP18	5744128.98	2487471.45	11/06/2013	22	4	1.5
RAP5	5744137.13	2487464.27	11/06/2013	6	4	1.5	RAP19	5744126.4	2487469.78	11/06/2013	24	4	1.5
RAP6	5744137.25	2487462.74	11/06/2013	7	4	1.5	RAP20	5744126.54	2487466.62	11/06/2013	26	4	1.5
RAP7	5744135.85	2487463.4	11/06/2013	8	4	1.5	RAP21	5744129.14	2487468.39	11/06/2013	25	4	1.5
RAP8	5744135.01	2487462.01	11/06/2013	10	4	1.5	RAP22	5744129.21	2487465.28	11/06/2013	19	4	1.5
RAP9	5744132.92	2487462.17	11/06/2013	11	4	1.5	RAP23	5744126.71	2487463.64	11/06/2013	27	4	1.5
RAP10	5744134.05	2487463.76	11/06/2013	9	4	1.5	RAP24	5744131.78	2487467	11/06/2013	17	4	1.5
RAP11	5744135.66	2487464.97	11/06/2013	5	4	1.5	RAP25	5744133.93	2487465.85	11/06/2013	16	4	1.5
RAP12	5744135.61	2487466.93	11/06/2013	15	4	1.5	RAP26	5744131.91	2487464.44	11/06/2013	18	4	1.5
RAP13	5744136.47	2487468.79	11/06/2013	13	4	1.5	RAP27	5744130.28	2487462.4	11/06/2013	20	4	1.5
RAP14	5744134.76	2487470.72	11/06/2013	12	4	1.5							

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DRAWN	CXP	Jul.13
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ARCFILE	52020-0200-TRX042	
SCALE (AT A3 SIZE)	1:100	
Prepared by Tonkin & Taylor Ltd.	FIGURE No.	
Ref: 52020-0200	1C6	

Ground Improvement Trials

Site 6 (Bexley)

Rammed Aggregate Piers Spacing Area



LEGEND

Investigation Sites

EQC CPT

Golders CPT

Existing CGD CPT

Post ground improvement
CPT after 14 days

Post ground improvement
CPT after 28 days

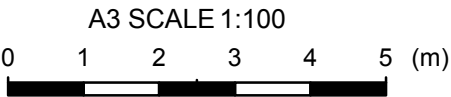
Low Mobility

Grout (LMG) location

Centerline

ID	Coordinate (mN)	Coordinate (mE)	Order top bulbs constructed	Date top bulb constructed	Depth to centre of top bulb	Volume of grout in top bulb (m3)	Observed ground heave for top bulb	Order bottom bulbs constructed in	Date lower bulbs constructed	Depth to cente of bottom bulb	Volume of grout for bottom bulb	Observed ground heave for lower bulb
LMG1	5744135.89	2487416.18	1	29/05/2013	1	0.105	100	1	30/05/2013	3	0.203	100
LMG2	5744135.86	2487417.66	2	29/05/2013	1	0.056	65	2	30/05/2013	3	0.49	100
LMG3	5744134.55	2487416.9	3	29/05/2013	1	0.056	110	3	30/05/2013	3	0.315	100
LMG4	5744134.63	2487415.43	4	29/05/2013	1	0.112	100	4	30/05/2013	3	0.252	100
LMG5	5744132.76	2487416.01	5	29/05/2013	1	0.084	100	5	30/05/2013	3	0.42	100
LMG6	5744132.88	2487417.94	6	29/05/2013	1	0.168	100	6	30/05/2013	3	point lodged in bottom of casing	point lodged in bottom of casing
LMG7	5744134.25	2487418.95	7	29/05/2013	1	0.133	100	7	30/05/2013	3	0.399	100
LMG8	5744132.77	2487420.26	8	29/05/2013	1	0.112	100	8	30/05/2013	3	0.245	Grout surfaced - 56
LMG9	5744130.63	2487419.31	9	29/05/2013	1	0.119	100	9	30/05/2013	3	0.252	100
LMG10	5744130.61	2487416.76	10	29/05/2013	1	0.119	100	10	30/05/2013	3	0.28	100
LMG11	5744127.96	2487417.6	11	29/05/2013	1	0.098	100	11	30/05/2013	3	0.399	100
LMG12	5744127.97	2487420.42	12	29/05/2013	1	0.112	100	12	30/05/2013	3	0.42	100
LMG13	5744130.25	2487422.01	13	29/05/2013	1	0.105	100	13	30/05/2013	3	0.42	100

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ARCFILE	52020-0200-TRX040	
SCALE (AT A3 SIZE)	1:100	
Prepared by Tonkin & Taylor Ltd.	FIGURE No.	
Ref: 52020-0200	1D6	

Ground Improvement Trials

Site 6 (Bexley)

Low Mobility Grout Spacing Area