

Precise Level Survey Results
(Precise Level Mark Location Plan)

THREE KINGS PRECISE LEVEL SURVEY RECORD

Station ID	Location	Coordinates		Averaged Level	Surveyed Levels (metres)		Change from Averaged Level (mm)		April 14 of May 13 (mm)
		mN	mE		May-13	Apr-14	May-13	Apr-14	
AP 3136A	Mt Eden Rd	697911.32	299386.400	63.114	63.111	63.116		2	5
CN 3137A	Mt Eden Rd	698072.60	299427.080	63.328	63.327	63.329		1	2
M 212A	Mt Albert Rd	696504.39	299153.170	86.127	86.109	86.111	-18	-16	2
SM 4163	Mt Albert Rd	696843.03	298513.030	74.142	74.142	74.143	0	1	1
SM 4164	Mt Albert Rd	696728.57	298688.370	75.851	75.842	75.844	-9	-8	2
SM 4165	Mt Albert Rd	696625.11	298783.310	83.632	83.622	83.623	-11	-9	2
SM 3882	Parau St	697063.26	298555.520	63.302	63.301	63.301	0	-1	0
RM 3898	McCullough Ave	697067.11	298760.280	76.078	76.064	76.065	-14	-13	1
RM 3899	McCullough Ave	696900.99	298813.230	77.811	77.801	77.802	-10	-9	1
RM 3900	McCullough Ave	696713.60	298916.530	76.657	76.640	76.642	-16	-15	2
RM 3901	Smallfield Ave	696669.58	298986.570	78.931	78.899	78.898	-32	-33	-1
RM 3902	Smallfield Ave	696747.40	299014.210	80.177	80.162	80.163	-16	-15	1
RM 3903	Smallfield Ave	696834.73	298965.090	82.524	82.514	82.515	-10	-9	1
RM 3904	Smallfield Ave	696939.98	298912.450	82.708	82.697	82.699	-11	-9	1
RM 3907	Fyvie Ave	697063.27	299054.590	80.321	80.314	80.316	-7	-5	2
RM 3910	Scout Ave	696974.91	298672.880	83.414	83.404	83.404	-10	-10	0
RM 3925	Bremner Ave	696727.72	298541.520	65.423	65.425	65.424	1	0	-1
RM 3926	Bremner Ave	696630.47	298448.990	59.088	59.091	59.088	3	0	-2
RM 3933	Milliken Rd	696725.14	298412.650	71.049	71.054	71.054	5	4	-1
RM 3934	Milliken Rd	696742.66	298472.300	66.303	66.307	66.306	4	3	-1
RM 3935	Simmonds Ave	696876.97	298725.700	91.755	91.747	91.745	-8	-10	-1
RM 3936	Simmonds Ave	696788.84	298756.780	90.869	90.853	90.852	-17	-18	-1
RM 7440	Hayr Rd	696258.10	299279.700	84.033	84.023	84.023	-11	-10	0
RM 7457	Mt Albert Rd	696575.40	298967.900	85.707	85.689	85.692	-18	-15	3
AP 1	Plaza, Mt Albert Rd	696589.80	299127.200	81.269	81.247	81.249	-22	-20	2
AP 2	Plaza, Mt Albert Rd	696706.40	299158.200	76.290	76.272	76.274	-18	-15	2
AP 2A	Plaza, Mt Albert Rd	696679.30	299152.500	77.582	77.566	77.568	-17	-14	2
AP 3	Plaza, Mt Albert Rd	696693.00	299259.100	77.367	77.353	77.354	-14	-13	0
AP 4	Plaza, Mt Albert Rd	696564.80	299244.900	83.366	83.344	83.345	-22	-20	1
AP 13	Barrister Ave	696796.00	299064.300	79.867	79.859	79.861	-8	-6	2
AP 20	Grahame Breed Dr	696723.10	299358.500	76.792	76.784	76.785	-9	-8	1
AP 3123A	Mt Eden Rd	697748.50	299343.990	75.904	75.902	75.905		1	2
AP 3124A	Landscape Rd	697715.17	299326.910	77.907	77.906	77.908		1	2
SM 3125	Landscape Rd	697810.23	298959.440	69.440	69.425	69.428	-15	-12	3
SM 3126	Landscape Rd	697873.04	298716.420	63.015	63.005	63.008	-10	-7	3
SS 3127	Landscape Rd	697911.99	298565.740	59.724	59.717	59.720	-7	-4	3
SS 3132	Waitomo St	697987.80	298590.900	61.689	61.683	61.686	-6	-2	3
SM 3883	Parau St	697156.95	298581.040	64.371	64.368	64.368	-3	-3	0
RM 3884	Parau St	697301.96	298629.210	62.539	62.535	62.535	-5	-4	0
SM 3885	Duke St	697474.42	298680.340	61.857	61.846	61.847	-10	-10	1
RM 3886	Fearon Ave	697329.55	298529.490	55.236	55.235	55.235	-1	-1	0
RM 3887	Fearon Ave	697221.32	298498.220	51.548	51.536	51.536	-12	-12	0
OCP 3888	Parau St	697732.59	298744.430	62.513	62.503	62.503	-10	-10	0
RM 3889	Duke St	697452.34	298785.500	69.233	69.211	69.211	-23	-22	0
RM 3891	Duke St	697515.89	299039.800	77.575	77.558	77.560	-18	-16	2
RM 3892	Duke St	697529.22	299086.260	78.012	77.995	77.997	-17	-15	2
RM 3893A	Duke St	697610.68	299248.020	79.110	79.108	79.110	-2	0	2
RM 3894	Fulljames Ave	697589.82	298923.430	72.082	72.054	72.055	-28	-27	1
RM 3895	Hamon Ave	697620.41	298829.460	65.188	65.155	65.156	-33	-33	1
AP 3895A	Hamon Ave	697631.96	298839.080	65.612	65.612	65.613	-1	0	1
RM 3896	McCullough Ave	697345.49	298887.040	69.820	69.798	69.799	-21	-21	1
RM 3897	McCullough Ave	697170.56	298776.560	75.084	75.068	75.069	-17	-16	1
RM 3905	Fyvie Ave	697080.60	298923.970	75.813	75.805	75.806	-8	-7	1
RM 3906	Fyvie Ave	697134.57	298836.070	77.447	77.434	77.435	-13	-12	1
RM 3908	Fyvie Ave	697093.64	299129.180	82.069	82.064	82.066	-5	-3	2
RM 3909	Scout Ave	697136.38	298680.630	80.056	80.044	80.045	-13	-12	1
RM 3911	Dally Tce	697387.46	298991.050	88.894	88.878	88.881	-16	-13	3
RM 3912	Fearon Ave	697399.31	298512.830	51.652	51.654	51.653	2	1	0
RM 3913	Fearon Ave	697445.84	298362.010	49.238	49.244	49.244	6	5	-1
RM 3921	Duncumb St	697530.84	298402.670	50.034	50.037	50.037	4	4	0
RM 3923	Connelly Ave	697465.89	299086.330	74.293	74.277	74.278	-17	-15	1
RM 3924	Connelly Ave	697424.55	299131.880	73.034	73.016	73.017	-18	-17	0
SM 4354	Mt Eden Rd	697606.00	299322.200	80.155	80.128	80.130	-27	-25	2
SM 6241	Duke St	697468.58	298893.360	70.012	69.982	69.983	-30	-29	1
OCP 90B	Duke St	697480.39	298934.300	71.805	71.785	71.786	-19	-18	1
AP 10	DESTROYED	697458.10	299308.700	82.673	82.659		-14	Refer AP 10A	
AP 10A	Roskill Way	697458.66	299309.190	82.767		82.767	No previous level		
AP 14	Churches Ave	697318.10	298969.200	91.334	91.320	91.323	-14	-11	3
AP 15	Dally Terrace	697357.20	299055.900	90.821	90.807	90.809	-15	-13	2
AP 17C	Hunters Park Dr	697293.89	299402.870	74.602	74.593	74.594	-9	-8	0.5
AP 29A	Duke St	697501.58	298517.840	49.542	49.536	49.538	-5	-3	2
M 220	Mt Eden Rd	697232.61	299557.190	81.700	81.664	81.665	-36	-35	0.4
M 221	Mt Eden Rd	697359.09	299539.940	83.449	83.433	83.434	-15	-15	0.7

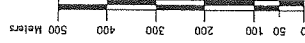
Station ID	Location	Coordinates		Averaged Level	Surveyed Levels (metres)		Change from Averaged Level (mm)		April 14 of May 13 (mm)
		mN	mE		May-13	Apr-14	May-13	Apr-14	
SS 1555	Selwyn Rd	697413.60	300062.900	99.584	99.582	99.582	-2	-2	-0.1
SS 1556	Selwyn Rd	697425.87	300012.810	102.373	102.370	102.370	-3	-4	-0.6
SS 1617	St Andrews Rd	697887.68	299983.320	81.442	81.440	81.441	-2	-1	0.8
SS 1618	St Leonards Rd	697906.03	299884.480	78.478	78.471	78.471	-7	-7	0.2
AP 1619A	St Leonards Rd	697935.70	299724.630	66.609	66.602	66.606	-6	-3	3.5
SS 1623	St Andrews Rd	697461.10	299874.960	107.522	107.514	107.513	-8	-9	-1.2
SS 3306	Mt Eden Rd	697993.20	299406.800	60.565	60.548	60.551	-17	-14	3.1
SS 3307	St Leonards Rd	697985.83	299454.690	59.661	59.648	59.651	-13	-10	3.3
SS 3308	St Leonards Rd	697952.15	299635.990	63.275	63.267	63.270	-8	-5	3.3
SS 3311	Rahiri Rd	697752.00	299610.940	95.306	95.290	95.294	-17	-12	4.6
SS 3312	Rahiri Rd	697733.64	299682.970	95.929	95.914	95.919	-15	-11	4.6
SS 3313	Landscape Rd	697648.30	299592.510	112.633	112.616	112.618	-17	-16	1.2
SS 3315	Rewa Rd	697613.41	299396.640	80.938	80.913	80.914	-25	-23	1.7
SS 3316	Rewa Rd	697579.48	299529.800	98.902	98.882	98.885	-20	-17	3.4
RM 6807	St Andrews Rd	697216.70	299808.100	102.487	102.473	102.471	-14	-16	-1.2
RM 6812	St Andrews Rd	697370.60	299846.600	108.907	108.894	108.894	-12	-13	-0.3
SM 6826	Buckley Rd	697157.90	300077.500	74.710	74.707	74.706	-3	-4	-0.8
RM 6827	Buckley Rd	697345.96	300128.040	83.332	83.333	83.335	1	3	1.5
SM 6828	Buckley Rd	697383.80	300177.400	87.952	87.954	87.955	2	3	1.5
SS 7701B	Landscape Rd	697619.71	299657.050	115.509	115.507	115.508	-1	0	1
SS 7702B	Landscape Rd	697602.26	299725.780	110.538	110.536	110.536	-2	-2	0.8
RM 7703	Landscape Rd	697589.21	299808.370	100.149	100.130	100.132	-19	-17	1.4
SM 7704	St Andrews Rd	697556.90	299894.500	97.816	97.808	97.808	-8	-8	0
AP 7705A	St Andrews Rd	697700.05	299930.560	88.195	88.194	88.194	-1	-1	-0.4
AP 9	St Andrews Rd	697103.90	299782.200	92.802	92.782	92.781	-20	-21	-1
AP 11	Mt Eden Rd	697168.40	299548.700	80.191	80.181	80.182	-9	-9	0.7
AP 16	Queens Way	697156.20	299676.200	83.646	83.636	83.640	-9	-5	4
AP 18B	DESTROYED	697509.31	299384.270	81.641	81.637		-4	Refer AP 18C	
AP 18C	Mt Eden Rd	697509.71	299383.880	81.667		81.667		No previous level	
M 205	Mt Albert Rd	696471.16	300138.540	59.305	59.304	59.304	-1	-1	-0.4
AP 206A	Mt Albert Rd	696527.29	299919.360	59.997	59.994	59.993	-3	-4	-0.8
M 210	Mt Albert Rd	696536.06	299441.550	83.050	83.029	83.030	-21	-20	1.1
SM 1979	Hillsborough Rd	696308.02	299637.250	61.241	61.214	61.213	-26	-28	-1.5
BP 1977B	Hillsborough Rd	696141.75	299609.930	71.993	71.987	71.987	-6	-6	0.2
SM 6809	St Andrews Rd	697001.27	299757.440	81.800	81.777	81.777	-23	-23	-0.6
SM 6810	St Andrews Rd	696925.56	299720.860	76.956	76.936	76.936	-20	-20	0.3
RM 6811	St Andrews Rd	696849.02	299715.440	76.526	76.502	76.502	-24	-24	-0.2
RM 6813	St Andrews Rd	696631.95	299652.970	80.905	80.879	80.879	-27	-27	0.1
RM 6816	Rowan Rd	696721.88	299845.690	78.908	78.884	78.886	-24	-22	1.4
SM 6817	Rowan Rd	696808.83	299876.790	80.995	80.976	80.977	-19	-18	1.1
RM 6818	Rowan Rd	696826.70	299791.250	81.966	81.945	81.946	-20	-19	1.1
RM 6819	Buckley Rd	696678.00	299942.250	65.620	65.607	65.605	-13	-15	-1.8
SM 6820	Buckley Rd	696808.11	299988.790	71.955	71.947	71.946	-8	-9	-0.8
SM 6821	Buckley Rd	696938.51	300004.300	71.114	71.108	71.107	-6	-7	-0.6
SM 6822	Gorrie Ave	696973.90	299863.230	81.874	81.856	81.855	-18	-19	-0.9
SM 6823	Buckley Rd	697012.43	300021.720	70.593	70.583	70.583	-10	-10	0
RM 6824	Buckley Rd	697044.38	300030.360	71.084	71.080	71.079	-4	-5	-0.7
RM 6825	Quentin Ave	697092.90	299916.800	81.386	81.373	81.372	-13	-14	-1.1
SM 6835	Torrance St	696969.98	300185.700	70.784	70.785	70.785	1	1	0
SM 6836	Torrance St	696930.33	300343.260	65.955	65.958	65.957	3	2	-0.7
RM 6838	Fernleigh Ave	696773.28	300065.800	70.304	70.299	70.297	-5	-6	-1.1
SM 6839	Fernleigh Ave	696748.10	300163.470	67.487	67.487	67.486	0	-1	-1.2
SM 6840	Fernleigh Ave	696714.69	300296.020	63.278	63.280	63.279	2	1	-1
SM 6841	Peet Ave	696626.68	300131.570	65.698	65.696	65.696	-2	-3	-0.4
AP 6843A	Kings Way	696958.45	299642.050	75.221	75.218	75.219	-3	-3	0.4
RM 7647	Mt Albert Rd	696565.00	299755.100	67.601	67.574	67.573	-27	-27	-0.7
ORM.I	Weaver Street	696836.50	300316.200	63.578	63.581	63.580	3	2	-0.9
AP 5	Mt Eden Rd	696757.00	299500.900	75.746	75.734	75.734	-12	-12	0.4
AP 6	Queens Way	696746.90	299590.600	75.306	75.285	75.286	-21	-20	1.5
AP 7A	St Andrews Rd	696778.94	299702.100	76.820	76.817	76.817	-4	-4	0
AP 8B	Mt Albert Rd	696559.06	299633.480	75.740	75.724	75.723	-16	-17	-0.5
AP 12	Warren Ave	696409.10	299402.200	94.357	94.339	94.339	-18	-18	0.2
OAP 19	St Andrews Rd	696725.00	299676.400	77.508	77.482	77.482	-27	-27	0.1
AP 21B	Mt Eden Rd	696995.04	299530.410	77.649	77.648	77.648	0	-1	-0.2
AP 22	Queens Way	697069.30	299667.600	78.352	78.344	78.346	-8	-6	1.6
AP 23	Queens Way	696858.57	299609.620	74.402	74.391	74.392	-11	-10	1.5
AP 30	Mt Eden Rd	696966.19	299525.130	77.329	77.318	77.319	-11	-11	0.7
AP 31	Mt Eden Rd	696934.22	299521.420	76.857	76.852	76.852	-6	-5	0.4
AP 32	Mt Eden Rd	696902.63	299517.810	76.203	76.192	76.193	-10	-10	0.5
AP 33	Mt Eden Rd	696855.06	299512.270	75.121	75.110	75.110	-11	-11	0
AP 34	Mt Eden Rd	696807.28	299506.750	74.937	74.923	74.923	-14	-14	0
SM 5387	Erson Ave	696146.21	300815.940	56.747	56.748	56.748	1	1	-0.2
SM 5386	Symonds St	696104.12	300983.290	55.184	55.186	55.185	2	2	-0.8
M 638	Manukau Rd	696081.51	301109.250	54.690	54.690	54.689	0	-1	-1.1
CA 55	Manukau Rd	696605.90	300894.300	65.141	65.141	65.141	0	0	0

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		mN	mE		May-13	Apr-14	May-13	Apr-14	
CA 53	Akarana Ave	696935.90	298292.100	70.594	70.594	70.594	0	0	0
M 216	Mt Albert Rd	696903.54	298347.910	72.658	72.658	72.659	1	1	0.5
SS 1977	Hillsborough Rd	696020.20	299595.820	74.453	74.450	74.450	-3	-3	0.1
RM 3927	Bremner Ave	696633.32	298338.770	62.651	62.651	62.649	0	-2	-1.2
RM 3928	Bremner Ave	696727.76	298195.810	56.144	56.144	56.142	0	-2	-2.3
AP 139	Bremner Ave	696788.02	298157.420	56.225	56.223	56.221	-2	-4	-2.4
RM 3931	Milliken Ave	696817.47	298257.510	62.500	62.501	62.499	1	0	-1.6
RM 3932	Milliken Ave	696733.95	298363.240	71.719	71.719	71.718	0	-1	-0.8
SS 3004	Dominion Rd	698058.80	298223.460	51.812	51.806	51.809	-6	-3	3.2
SS 3131	Shackleton Rd	698110.53	298631.800	59.419	59.412	59.416	-7	-3	3.8
SS 3133	Shackleton Rd	698071.30	298770.710	59.554	59.545	59.549	-9	-5	3.8
SS 3134	Shackleton Rd	698021.66	298946.500	61.479	61.467	61.471	-11	-7	4
SS 3135	Shackleton Rd	697966.25	299165.810	61.684	61.676	61.680	-8	-4	3.5
SS 3151	Mt Eden Rd	698285.87	299497.700	67.987	67.983	67.987	-4	0	4.4
SS 1905	St Andrews Rd	698147.73	300049.390	88.810	88.807	88.807	-4	-4	0.3
AP 7707A	St Andrews Rd	697977.74	300004.980	81.535	81.534	81.534	-1	-1	-0.2
RM 1558A	Empire Rd	697816.18	300105.630	91.682	91.681	91.681	-1	-1	-0.1
SS 1559	Empire Rd	697800.00	300165.500	96.024	96.021	96.020	-4	-5	-0.9
SS 1549	The Drive	697753.34	300348.670	85.871	85.869	85.869	-2	-3	-0.4
SS 1550	The Drive	697589.88	300306.710	84.432	84.432	84.432	-1	0	0.8
AP 6830A	The Drive	697538.37	300293.820	81.767	81.766	81.767	0	1	1.3
SS 1551	The Drive	697492.54	300281.710	77.481	77.477	77.478	-5	-3	1.3
RM 6829	Selwyn Rd	697363.05	300258.050	79.864	79.856	79.857	-7	-7	0.6
RM 6832	Selwyn Rd	697337.40	300403.570	80.190	80.190	80.191	0	1	0.8
SM 5912	Pah Rd	697278.09	300666.240	74.285	74.285	74.286	0	1	1.2
AP 35	Mt Albert Rd	696402.12	300407.230	54.190	54.194	54.193	3	3	-0.6
AP 37	Hillsborough Rd	696407.39	299705.880	59.335	59.321	59.320	-14	-16	-1.6
AP 38	Budock Rd	696246.76	299834.650	69.274	69.268	69.267	-5	-7	-1.5
AP 39	Hillsborough Bowling	696383.07	299856.280	56.297	56.291	56.290	-6	-7	-0.4
AP 40	Hillsborough Bowling	696445.91	299895.620	55.757	55.750	55.751	-7	-6	0.9
IS 41	Hillsborough Bowling	696403.82	299804.750	56.336	56.329	56.328	-7	-8	-0.8
AP 42	Dornwell Rd	696378.41	299015.870	76.373	76.360	76.362	-13	-11	2
AP 43	Dornwell Rd	696260.57	298956.760	66.002	65.992	65.994	-10	-8	1.8
AP 44	Dornwell Rd	696110.00	298858.850	58.493	58.482	58.483	-11	-10	0.5
AP 45	Frost Rd	696471.85	298726.920	64.920	64.909	64.912	-11	-8	2.9
AP 54	Frost Rd	696264.66	298577.840	57.855	57.839	57.841	-16	-14	2
AP 46	Dominion Rd	697995.61	298226.640	50.443	50.436	50.439	-7	-3	3.6
AP 47A	Landscape Rd	697951.78	298343.100	52.565	52.561	52.565	-4	0	4.5
AP 48A	Landscape Rd	697937.88	298463.580	57.065	57.060	57.063	-5	-2	3.4
AP 49B	Landscape Rd	697788.49	299044.880	70.340	70.334	70.337	-6	-4	2.6
AP 50B	Landscape Rd	697766.32	299132.160	71.659	71.655	71.658	-4	-1	3
AP 51B	Landscape Rd	697745.03	299214.610	74.120	74.116	74.118	-4	-2	2.3
AP 55A	Mt Eden Rd	698208.56	299461.650	68.302	68.300	68.304		2	3.8
AP 56	Mt Albert Rd	696314.42	300774.760	58.409	58.410	58.409	1	0	-1
AP 60	Rowan Rd	696681.05	299826.310	76.276	76.263	76.263	-13	-13	0.5
AP 61	Rowan Rd	696616.53	299797.110	71.310	71.293	71.294	-17	-16	1.2
AP 62A	Mt Albert Rd	696527.21	299808.440	62.894	62.895	62.893	1	-1	-1.2
AP 63A	Mt Albert Rd	696520.06	299875.150	61.370	61.367	61.367	-3	-4	-0.8
AP 64	Hillsborough Rd	696478.45	299774.300	60.579	60.571	60.569	-9	-10	-1.
AP 65	Hillsborough Rd	696446.58	299735.840	59.546	59.534	59.533	-12	-14	-1.2
OAP 66	Hillsborough Rd	696359.44	299672.760	59.987	59.980	59.978	-7	-9	-1.5
AP 67	Hillsborough Rd	696248.43	299622.210	63.871	63.863	63.862	-8	-9	-1
OCP 68	Budock Rd	696235.97	299684.440	66.304	66.300	66.299	-4	-5	-0.6
AP 69	Budock Rd	696249.57	299731.190	65.977	65.972	65.971	-5	-6	-1.1
AP 70	Budock Rd	696244.13	299790.390	71.208	71.205	71.203	-3	-5	-1.7
AP 71A	Hillsborough Rd	696194.39	299616.380	67.816	67.816	67.815		-1	-1.6
AP 72	Hillsborough Rd	696072.41	299594.010	74.077	74.075	74.074	-3	-3	-0.5
AP 73	Marie Ave	696238.34	299544.470	70.874	70.868	70.866	-6	-8	-1.4
AP 74A	Marie Ave	696253.83	299498.690	78.302	78.302	78.301		-1	-1
AP 75	Marie Ave	696280.07	299452.860	86.876	86.874	86.875	-2	-1	0.9
AP 77A	Mt Albert Rd	696539.72	299479.950	83.034	83.034	83.035	0	0	0.9
AP 78	Mt Albert Rd	696559.36	299551.480	81.022	81.012	81.012	-11	-10	0.6
AP 79	Mt Albert Rd	696558.48	299588.520	78.663	78.654	78.654	-9	-9	0.1
AP 80	Mt Albert Rd	696561.89	299691.520	71.414	71.402	71.400	-13	-15	-1.9
AP 81A	Mt Albert Rd	696501.72	300015.210	58.551	58.549	58.548	-2	-3	-0.8
AP 82A	Mt Albert Rd	696507.72	299991.380	58.575	58.573	58.572	-2	-3	-1
AP 83	Mt Albert Rd	696514.36	299966.950	58.863	58.858	58.858	-6	-6	-0.3
AP 84	Mt Albert Rd	696520.40	299943.250	59.350	59.346	59.345	-4	-5	-1
AP 85	Mt Albert Rd	696516.23	299894.400	60.619	60.612	60.611	-7	-8	-0.9
AP 86	Mt Albert Rd	696524.80	299855.750	62.051	62.046	62.045	-5	-6	-1
AP 87	Mt Albert Rd	696530.55	299833.500	62.733	62.727	62.726	-7	-8	-1
AP 88A	Mt Albert Rd	696541.44	299788.970	64.678	64.679	64.677	0	-1	-1.8
AP 89	Mt Albert Rd	696560.86	299777.800	65.939	65.928	65.928	-10	-11	-0.7
AP 90	Mt Albert Rd	696562.93	299734.250	68.687	68.678	68.677	-10	-10	-0.9
AP 91	Mt Albert Rd	696562.43	299712.450	70.075	70.067	70.065	-9	-10	-1.7

Station ID	Location	Coordinates		Averaged Level	Surveyed Levels (metres)		Change from Averaged Level (mm)		April 14 of May 13 (mm)
		mN	mE		May-13	Apr-14	May-13	Apr-14	
AP 92	Mt Albert Rd	696560.50	299673.840	72.613	72.623	72.623	9	10	0.9
AP 93	Mt Albert Rd	696559.89	299657.170	73.864	73.856	73.855	-8	-9	-0.9
AP 94	Mt Albert Rd	696558.57	299610.310	77.101	77.093	77.093	-7	-7	0.1
AP 95	Mt Albert Rd	696559.21	299569.960	79.957	79.948	79.949	-9	-8	0.6
AP 96	St Andrews Rd	696582.87	299641.100	77.897	77.890	77.890	-7	-7	-0.1
AP 97	St Andrews Rd	696607.72	299646.900	80.321	80.313	80.313	-8	-8	0
AP 98	Rowan Rd	696588.07	299763.680	68.501	68.494	68.494	-7	-7	-0.2
AP 99	Rowan Rd	696594.23	299786.130	69.478	69.469	69.470	-9	-9	0.3
AP 100	Hillsborough Rd	696521.99	299784.890	62.966	62.957	62.955	-9	-11	-1.8
AP 101	Hillsborough Rd	696494.72	299786.950	61.359	61.350	61.350	-9	-9	-0.8
AP 102	Hillsborough Rd	696457.24	299761.130	60.006	59.998	59.997	-8	-9	-0.8
AP 103	Hillsborough Rd	696427.81	299719.780	59.404	59.392	59.392	-12	-13	-0.2
AP 104A	Hillsborough Rd	696385.14	299690.230	59.554	59.549	59.547	-5	-7	-2
AP 105	Hillsborough Rd	696373.80	299682.700	59.711	59.704	59.703	-7	-8	-1.6
AP 106	Hillsborough Rd	696341.88	299660.520	60.458	60.453	60.452	-5	-6	-1.2
AP 107	Hillsborough Rd	696324.59	299648.550	60.881	60.876	60.875	-5	-6	-1.7
AP 108	Hillsborough Rd	696290.76	299628.820	62.060	62.056	62.055	-4	-5	-1.6
AP 109	Hillsborough Rd	696270.02	299627.790	62.806	62.803	62.800	-4	-6	-2.4
AP 110	Hillsborough Rd	696230.60	299619.620	64.997	64.989	64.989	-8	-8	-0.5
AP 111	Hillsborough Rd	696213.05	299617.070	66.322	66.319	66.317	-3	-4	-1.2
AP 112	Budock Rd	696247.78	299639.800	63.699	63.696	63.694	-3	-5	-1.3
AP 113	Budock Rd	696235.55	299662.370	65.546	65.545	65.545	-1	-2	-0.3
AP 114	Budock Rd	696238.48	299707.280	65.879	65.886	65.888	7	8	1.7
AP 115	Budock Rd	696251.17	299753.130	67.579	67.575	67.574	-4	-6	-1.4
AP 116	Budock Rd	696251.91	299773.340	69.485	69.483	69.482	-1	-2	-0.9
AP 117	Budock Rd	696245.16	299811.840	70.833	70.844	70.843	11	10	-1.3
OAP 118	Mt Albert Rd	696509.17	299918.390	59.895	59.887	59.886	-8	-9	-1
AP 119B	Haughey Ave	696153.08	299217.860	71.931	71.932	71.931	1	0	-0.3
AP 120	Haughey Ave	696109.88	299304.270	67.450	67.446	67.445	-4	-4	-0.7
AP 121	Haughey Ave	696056.80	299385.050	66.666	66.663	66.662	-3	-3	-0.4
AP 122	Haughey Ave	696006.86	299462.680	66.032	66.029	66.029	-3	-3	-0.1
AP 123A	Haughey Ave	695959.41	299557.720	73.518	73.520	73.519	2	1	-0.5
AP 125A	Hillsborough Rd	695847.28	299535.570	69.946	69.949	69.948	3	2	-1
SS 1976	Hillsborough Rd	695759.40	299503.940	71.137	71.130	71.129	-7	-8	-0.7
AP 126A	Carr Rd	695885.14	299465.230	65.244	65.244	65.244	0	0	-0.1
AP 127A	Carr Rd	695905.29	299374.820	61.514	61.514	61.514	0	0	0.2
RM 7441	Carr Rd	695901.87	299261.380	58.499	58.494	58.494	-5	-5	0.5
AP 129A	Carr Rd	695938.31	299190.920	58.156	58.158	58.157	2	1	-1.1
OAP 130	Dornwell Rd	696185.75	298907.645	60.670	60.665	60.666	-5	-4	0.9
OAP 131	Hayr Rd	696067.40	299157.710	63.120	63.118	63.118	-3	-3	0
AP142	Carr/Hayr Rds	695981.15	299082.870	58.437	58.436	58.437	0	0	0.7
AP 132B	Carr Rd	696036.51	298977.060	58.356	58.356	58.357	0	1	0.4
AP 133	Carr Rd	696128.84	298776.820	58.156	58.152	58.153	-5	-4	1.2
AP 134	Carr Rd	696177.86	298685.470	58.033	58.030	58.032	-2	-1	1.6
AP 135	Frost Rd	696157.94	298506.100	57.399	57.398	57.400	-2	1	2.7
AP 136	Frost Rd	696363.44	298640.340	59.265	59.261	59.263	-4	-2	2.4



Note:
Origin of Levels
CA55 504930
RL65.1412m
in some terms as
V205 5094417
RL59.305m
(as at 5/02)
Control PI
Existing



PROJECT:
WINSTONE AGGREGATES
THREE KINGS QUARRY
AUCKLAND

APPROVAL SHEET
1. LENDING EIT FILE
MANUJAU AUCKLAND 2022
1:441 5 985 330
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ISO 14001
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SYSTEMS

ISO 45001
CERTIFIED
SAFETY AND
HEALTH
MANAGEMENT
SYSTEMS

DATE: 03.01.14
DRAWN: 04.2014
CHECKED: 04.2014
APPROVED: 04.2014
BY: DATE

REVISIONS
1. A2014.01.01 DESTROYED
2. A2014.01.01 ADDED
3. A2014.01.01 DESTROYED

SCALE: 1:5000
NTS

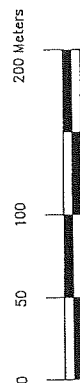
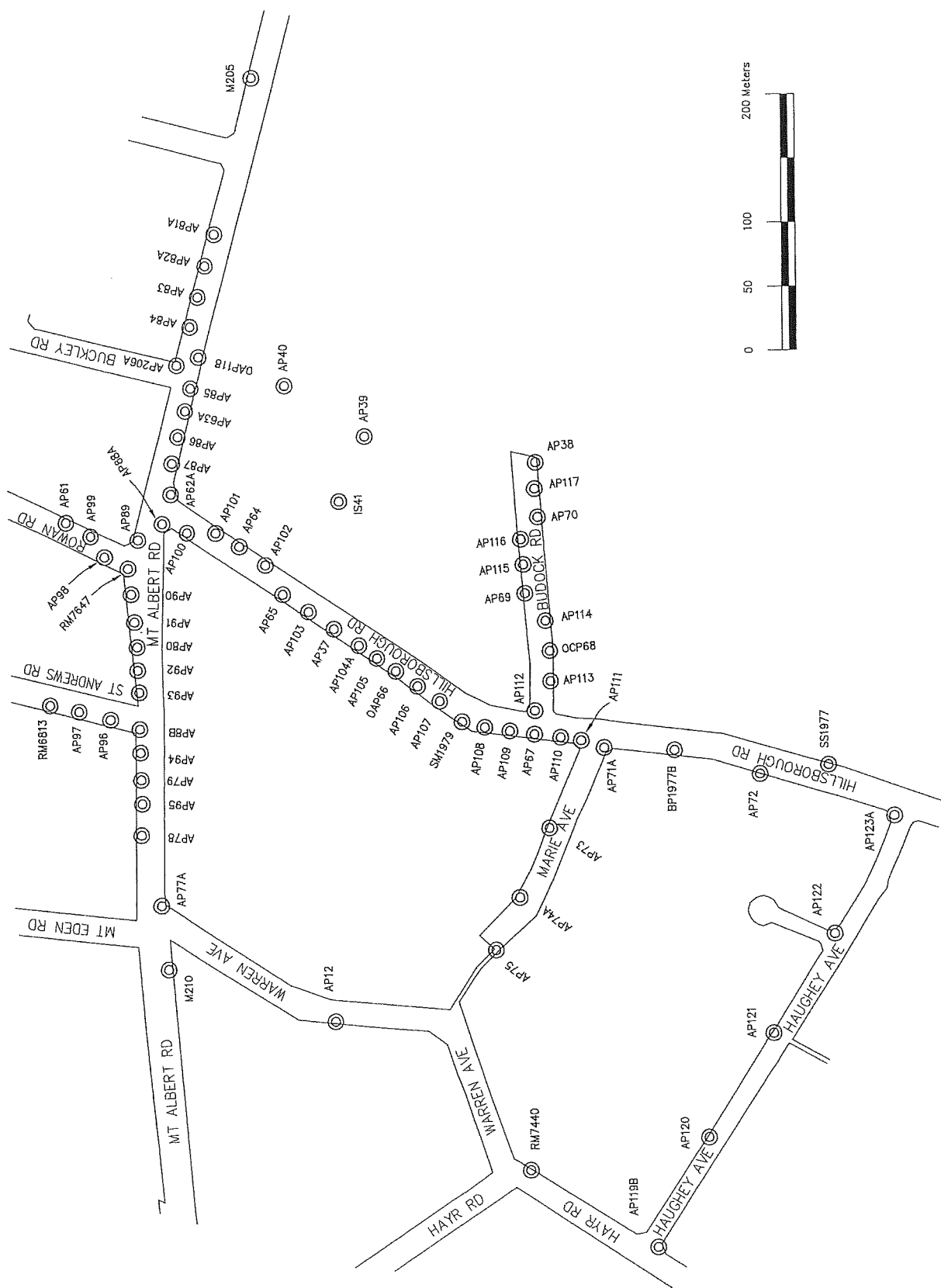
DRAWING NO: 006451-200

REV: A

TITLE:
SURVEY MONITORING
CONTROL POINTS

DATE: 03.01.14

REFER TO APPROVED PASTED DRAWINGS FOR ORIGINAL SIGNATURES: PHIL HANIKUM 011 204 8451, TERRY GIBSON 011 204 8451, JESSE BULLOCK 011 204 8451

[illegible]

RECEPTION OFFICE
 LEVEL 4, QUAY 5, 4 LEICHAUD ESTAT DRIVE
 HAYWARD AUSTRALIA 2022
 T +61 9 955 3100
 E enq@harfordjackson.com

PROJECT:

WINSTONE AGGREGATES
THREE KINGS QUARRY
AUCKLAND

SURVEY MONITORING

CONTROL POINTS
(DIAGRAM TO PLAN 6451-200)

PROJECT STATUS:	PROJECT AP: 1130 006451 01	SQALLS: 1:5000 NTS	A1
DRAWING No:			REV
006451-201			A

REFER TO APPROVED MASTER DRAWINGS FOR ORIGINAL SIGNATURES. FILE: MAJUKAU N:\113010845\LEVELS\CAD\SURVEY\1651-200 CONTROL_PTS_PLANNING