



3rd September 2007

Auckland Regional Council
Private Bag 92 012
Auckland.

Attention: Naveen Kumar, Water Resources Section

Re: Three Kings Quarry De-watering Consent 12977

Dear Naveen

As required by Condition 7 of the above resource consent, please find enclosed records of groundwater level measurements for the period of 1 June 2007 to 31 August 2007.

Please note that the groundwater level within bore 2B was not measured in July and August as access to this bore has not been possible as the quarry floor around the bore has been flooded following the winter rains. Bore 5B has been taken as the quarry reference bore until bore 2B is able to be read.

I trust all is in order. Please contact the undersigned if any further information or clarification is required.

Yours faithfully
for **Winstone Aggregates**



Michael Harris
Engineering Geologist.

THREE KINGS QUARRY
RESOURCE CONSENT 12977
QUARTERLY REPORT

September 2007

QUARTERLY REPORT
THREE KING QUARRY – RESOURCE CONSENT 12977

The following report is made with regard to Condition 7 of Resource Consent 12977.

This report contains the groundwater levels within boreholes surrounding the take point.

A plan showing the location of boreholes in which groundwater levels were measured is attached.

This report contains records for the period of the 1st June to 31st August 2007.

THREE KINGS GROUNDWATER LEVEL RECORD SHEET

Date	BH 1B	BH 2B	BH 5B	BH 6A	BH 6B	BH 6C	BH 7	BH 10a
20-Jun-07	11.57	34.65	34.04	34.05	34.55	44.24	39.20	39.58
18-Jul-07	11.01	35.21	34.55	34.55	44.45	40.01	35.65	40.69
15-Aug-07	10.92	35.30	34.64	33.60	45.19	42.87	35.92	40.69
Date	BH 10b	BH 11b	BH 12a	BH 12b	BH 13a	BH 13c	BH 16	BH 17
20-Jun-07	8.11	72.65	21.86	50.37	17.46	54.71	65.93	49.43
18-Jul-07	8.05	72.71	21.45	50.78	17.44	54.73	66.36	49.13
15-Aug-07	8.06	72.70	21.11	51.12	7.82	64.35	66.37	48.73
Date	BH 18A	BH 18B	BH 19A	BH 19B	BH 20	BH 20a	BH 21	BH 22
20-Jun-07	48.69	35.81	46.04	34.01	1.95	54.71	50.20	37.23
18-Jul-07	48.6	35.90	44.94	34.59	1.75	54.91	50.89	36.70
15-Aug-07	48.43	36.07	44.89	34.69	1.59	55.07	51.52	36.20
Date	BH 22a	BH 23	BH 23a	BH 24	BH 24a	BH 25	BH 25a	BH 25b1
20-Jun-07	10.99	64.15	6.26	51.08	0.31	62.45	37.15	10.83
18-Jul-07	10.46	64.68	6.22	51.12	0.40	62.36	37.31	10.53
15-Aug-07	10.04	65.10	6.23	51.11	0.47	62.29	37.35	10.08
Date	BH 25b2	BH 26	BH 26a	BH 27	BH 28a	BH 28b	BH 29	BH 30
20-Jun-07	7.98	51.37	0.44	33.60	6.39	51.04	52.39	8.95
18-Jul-07	8.33	51.72	0.38	33.66	6.61	51.26	52.99	8.80
15-Aug-07	8.71	52.10	0.36	33.68	6.43	51.08	53.22	8.73
Date	BH 31a	BH 31b	BH 32	BH 33	BH 34	BH 35a	BH 35b	BH 36a
20-Jun-07	15.32	48.91	4.78	53.88	3.43	48.98	49.43	11.34
18-Jul-07	15.48	49.07	4.18	54.48	2.84	49.52	49.49	11.23
15-Aug-07	15.20	48.79	3.81	54.85	2.51	49.86	49.40	11.14
Date	BH 36b	BH 37a	BH 37b	BH 38a	BH 38b	BH 39a	BH 39b	BH 40a
20-Jun-07	7.76	58.77	3.58	53.96	4.94	53.53	54.96	57.06
18-Jul-07	7.58	58.95	3.49	54.05	4.78	53.69	55.12	57.16
15-Aug-07	7.49	59.04	3.43	54.11	4.68	53.79	55.08	57.23
Date	BH 40b							
20-Jun-07	7.90	63.46						
18-Jul-07	7.94	63.42						
15-Aug-07	7.79	63.57						

Locations of boreholes are marked on the attached plan

Waterlevels within standpipe piezometers are expressed as depth below surface levels (first column) and as elevations above seallevel (second column).

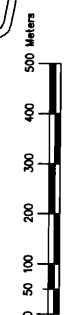
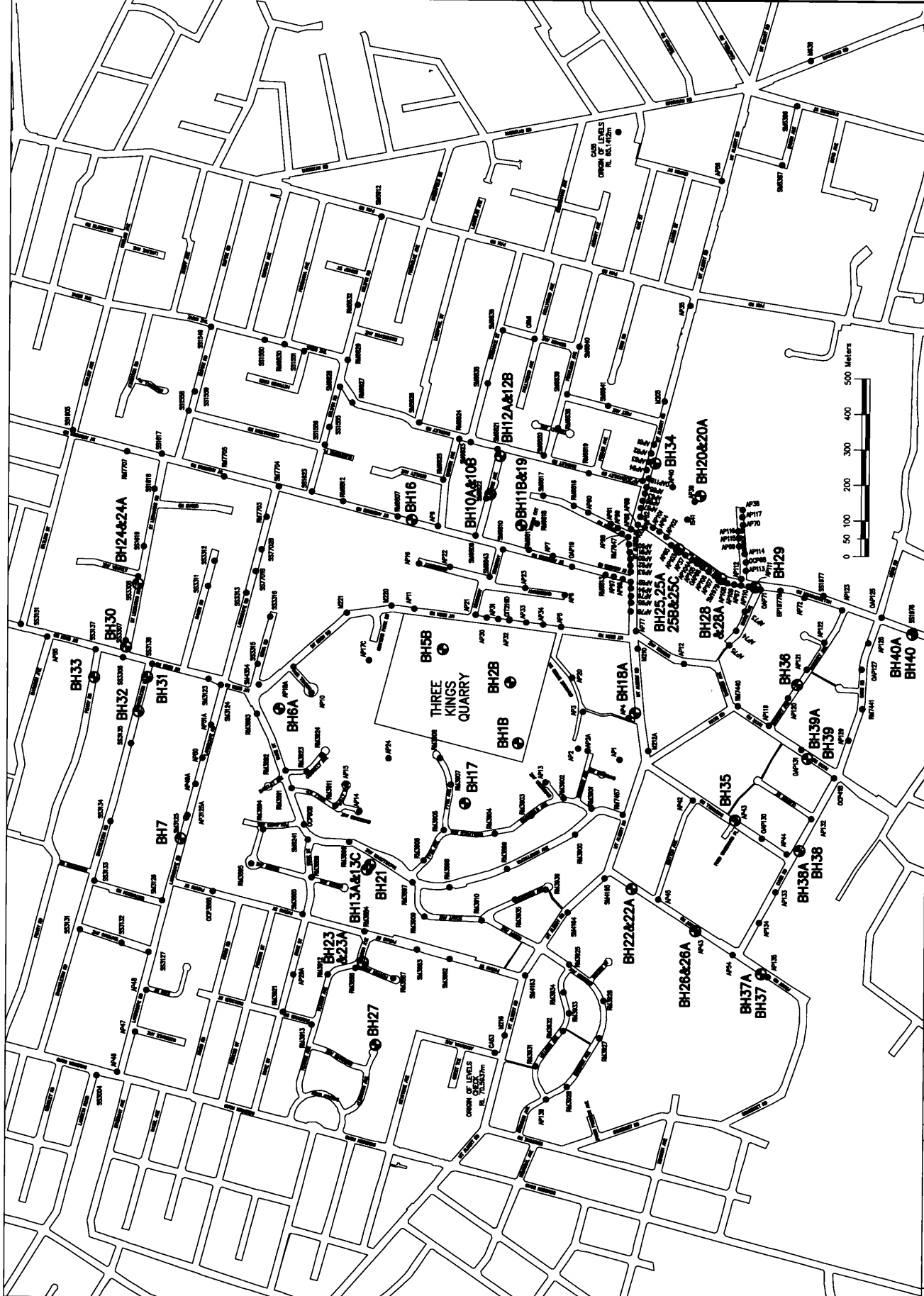
Waterlevels within pneumatic piezometers are expressed as head of water above piezometer tip (first column) and as elevations above seallevel (second column).



Note:
 Origin of Levels
 CADS S049830
 RL 62.1412m
 Meters above Mean Sea Level as
 MDS S04417
 RL 58.205m

● S53316 = Private
 Level Survey
 Benchmarks

● BH16 = Borehole
 Location



PROJECT:	WINSTONE AGGREGATES LTD THREE KINGS QUARRY
TITLE:	BOREHOLE LOCATION PLAN AS AT 10-3-05
SCALE:	A1 1:5000 A2 1:10000
PROJECT No.:	133070643
DRAWING No.:	6451-100
REV	B

HARRISON
GRIERSON
CONSULTING ENGINEERS SURVEYORS PLANNERS

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ASSOCIATION OF PROFESSIONAL ENGINEERS
 QUALITY ASSURANCE
 REGISTERED

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