

THREE KINGS QUARRY
RESOURCE CONSENT 12977
QUARTERLY REPORT

December 2005

QUARTERLY REPORT
THREE KING QUARRY – RESOURCE CONSENT 12977

The following report is made with regard to Conditions 6 and 7 of Resource Consent 12977.

This report contains water meter readings which record the quantity of groundwater being taken and 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 September 2005 to 30th November 2005.

Water Use Record Sheet

Permit Holder: Winstone Aggregates

Permit Number: 12977

Meter Readings

Metro Bore
 1st June 2005: 9239852
 1st September 2005: 9495408

Annual Use: 508667

Quarterly Water Use: 253111

Date	Metro Bore	Date	Metro Bore	Date	Metro Bore
1/09/2005	9495408	1/10/2005	9570751	1/11/2005	9656599
2/09/2005	9498464	2/10/2005		2/11/2005	9660447
3/09/2005	9501638	3/10/2005	9574090	3/11/2005	9664299
4/09/2005		4/10/2005	9576242	4/11/2005	9668141
5/09/2005	9507704	5/10/2005	9578348	5/11/2005	9671401
6/09/2005	9510858	6/10/2005	9580507	6/11/2005	
7/09/2005	9514002	7/10/2005	9582199	7/11/2005	9677482
8/09/2005	9517146	8/10/2005	9585001	8/11/2005	9680480
9/09/2005	9520291	9/10/2005		9/11/2005	9683664
10/09/2005	9523430	10/10/2005	9587803	10/11/2005	9686686
11/09/2005		11/10/2005	9589941	11/11/2005	9689725
12/09/2005	9529641	12/10/2005	9592090	12/11/2005	9692764
13/09/2005	9531814	13/10/2005	9594219	13/11/2005	
14/09/2005	9534300	14/10/2005	9596394	14/11/2005	9698735
15/09/2005	9536777	15/10/2005	9598582	15/11/2005	9701723
16/09/2005	9539257	16/10/2005		16/11/2005	9704929
17/09/2005	9541445	17/10/2005	9602054	17/11/2005	9708145
18/09/2005		18/10/2005	9604274	18/11/2005	9711319
19/09/2005	9544894	19/10/2005	9607108	19/11/2005	9714485
20/09/2005	9547147	20/10/2005	9609942	20/11/2005	
21/09/2005	9549400	21/10/2005	9612776	21/11/2005	9720453
22/09/2005	9551633	22/10/2005	9618411	22/11/2005	9723613
23/09/2005	9553500	23/10/2005		23/11/2005	9726973
24/09/2005	9555741	24/10/2005		24/11/2005	9729934
25/09/2005		25/10/2005	9629672	25/11/2005	9733081
26/09/2005	9559493	26/10/2005	9633807	26/11/2005	9736245
27/09/2005	9561733	27/10/2005	9637402	27/11/2005	
28/09/2005	9563986	28/10/2005	9641244	28/11/2005	9742196
29/09/2005	9566231	29/10/2005	9645086	29/11/2005	9745360
30/09/2005	9568486	30/10/2005		30/11/2005	9748519
		31/10/2005	9652770		

THREE KINGS GROUNDWATER LEVEL RECORD SHEET

Date	BH 1B	BH 2B	BH 5B	BH 6A	BH 6B	BH 6C	BH 7	BH 10a						
21-Sep-05	12.70	3.66	34.31	43.86	34.40	33.27	45.52	38.72	40.07	28.54	40.07	28.86	51.90	
19-Oct-05	11.96	2.97	35.00	43.13	35.13	33.09	45.70	38.30	40.49	42.44	36.35	27.77	40.84	51.00
16-Nov-05	12.17	3.53	34.86	43.27	34.99	32.60	46.19	38.32	40.47	42.61	36.18	28.50	40.11	29.57
Date	BH 10b	BH 11b	BH 12a	BH 12b	BH 13a	BH 13c	BH 16	BH 17						
14-Jun-05	8.10	7.60	72.39	21.47	50.76	5.10	67.03	10.65	61.52	7.18	66.23	48.89	51.25	43.57
20-Jul-05	8.11	7.65	72.39	21.13	51.10	5.05	67.08	8.03	64.14	7.15	66.26	48.77	51.37	42.84
17-Aug-05	8.11	7.58	72.41	21.06	51.17	5.10	67.03	9.13	63.04	7.15	66.26	48.50	51.64	42.98
Date	BH 18A	BH 18B	BH 19A	BH 19B	BH 20	BH 20a	BH 21	BH 22						
14-Jun-05	48.81	35.69	45.24	39.26	45.65	34.40	41.05	39.00	1.56	55.10	5.56	51.18	36.27	36.04
20-Jul-05	48.61	35.89	45.56	38.94	44.98	35.07	41.10	38.95	1.42	55.24	5.03	51.71	36.05	36.26
17-Aug-05	48.36	36.14	45.75	38.75	45.06	34.99	41.10	38.95	1.46	55.20	5.96	50.78	36.04	36.27
Date	BH 22a	BH 23	BH 23a	BH 24	BH 24a	BH 25	BH 25a	BH 25b1						
14-Jun-05	10.84	64.30	5.82	51.38	6.24	51.10	6.92	55.88	0.76	62.00	21.91	37.54	10.24	49.20
20-Jul-05	10.09	65.05	5.86	51.34	6.33	51.01	6.88	55.92	0.70	62.06	21.92	37.53	9.75	49.69
17-Aug-05	10.09	65.05	5.81	51.39	6.31	51.03	6.82	55.98	0.66	62.10	21.80	37.65	11.95	47.49
Date	BH 25b2	BH 26	BH 26a	BH 27	BH 28a	BH 28b	BH 29	BH 30						
14-Jun-05	8.27	51.66	0.92	58.52	5.32	54.09	0	49.60	6.11	50.76	3.61	52.66	9.03	57.57
20-Jul-05	9.03	52.42	0.98	58.46	5.12	54.29	0	49.60	6.22	50.87	4.71	53.76	8.94	57.66
17-Aug-05	8.87	52.26	1.08	58.36	5.18	54.23	0	49.60	6.26	50.91	4.11	53.16	8.94	57.66
Date	BH 31a	BH 31b	BH 32	BH 33	BH 34	BH 35a	BH 35b	BH 36a						
14-Jun-05	15.15	48.74	12.78	50.07	4.16	54.50	3.06	57.21	8.98	49.77	15.61	50.65	11.15	55.11
20-Jul-05	15.13	48.72	12.85	50.14	3.71	54.95	2.81	57.46	8.65	50.10	15.67	50.59	11.11	55.15
17-Aug-05	15.18	48.77	12.89	50.18	3.88	54.78	2.78	57.49	9.32	49.43	15.73	50.53	11.03	55.23
Date	BH 36b	BH 37a	BH 37b	BH 38a	BH 38b	BH 39a	BH 39b	BH 40a						
14-Jun-05	7.67	58.86	3.6	53.94	3.79	53.81	4.24	54.24	4.94	53.53	6.88	55.11	5.10	57.03
20-Jul-05	7.56	58.97	3.57	53.97	3.71	53.89	4.24	54.24	4.85	53.62	6.90	55.09	5.09	57.04
17-Aug-05	7.54	58.99	3.57	53.97	3.77	53.83	4.27	54.21	4.79	53.68	6.88	55.11	5.11	57.02
Date	BH 40b													
14-Jun-05	7.70	63.66												
20-Jul-05	7.70	63.66												
17-Aug-05	7.64	63.72												

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 seal level (second column).

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