



WINSTONE
AGGREGATES

Three Kings Quarry – Permit No 12977

Groundwater Take To Dewater Three Kings Quarry

Quarterly Report

June 2011

QUARTERLY REPORT

Three Kings Quarry – Permit No 12977

The following report is made with regard to Condition 7 of Permit No 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 1 March to 31 May 2011.

THREE KINGS GROUNDWATER LEVEL RECORD SHEET

Date	BH 1B	BH 2B	BH 5B	BH 6A	BH 6B	BH 6C	BH 7	BH 10a								
16-Mar-11	11.15	35.07	34.36	34.37	33.45	45.34	38.70	40.09	43.30	35.49	28.42	40.19	29.82	50.94		
19-Apr-11	11.36	34.86	1.04	34.21	44.09	34.17	33.44	45.35	40.00	43.50	35.29	28.48	40.13	50.93		
18-May-11	11.15	35.07	0.85	34.40	43.86	34.40	33.20	45.59	40.22	43.22	35.57	27.60	41.01	51.34		
Date	BH 10b	BH 11b	BH 12a	BH 12b	BH 13a	BH 13c	BH 16	BH 17								
16-Mar-11	8.07	72.69	7.53	72.46	21.21	51.02	5.02	67.11	16.63	55.54	7.07	66.34	48.69	51.45	43.46	34.42
19-Apr-11	8.08	72.68	7.54	72.45	21.27	50.96	4.95	67.18	16.75	55.42	7.08	66.33	48.75	51.39	43.69	34.19
18-May-11	8.07	72.69	7.53	72.46	20.83	51.40	4.93	67.20	13.19	58.98	7.08	66.33	48.40	51.74	43.50	34.38
Date	BH 18A	BH 18B	BH 19A	BH 19B	BH 20	BH 20a	BH 21	BH 22								
16-Mar-11	48.48	36.02	38.3	46.20	45.60	34.45	41.48	38.57	1.87	54.79	5.42	51.32	34.99	37.32	34.03	41.21
19-Apr-11	48.59	35.91	38.67	45.83	45.80	34.25	41.47	38.58	1.71	54.95	5.56	51.18	34.43	37.88	34.03	41.21
18-May-11	48.57	35.93	38.7	45.80	45.62	34.43	41.48	38.57	1.36	55.28	4.65	52.09	36.88	35.43	34.04	41.20
Date	BH 22a	BH 23	BH 23a	BH 24	BH 24a	BH 25	BH 25a	BH 25b1								
16-Mar-11	10.54	64.60	5.53	51.67	6.17	51.17	6.57	56.23	2.02	60.74	22.27	37.18	11.80	47.64	9.42	48.31
19-Apr-11	10.64	64.50	5.51	51.69	6.18	51.16	6.57	56.23	2.04	60.72	22.27	37.18	10.59	48.85	9.64	48.53
18-May-11	9.91	65.23	5.49	51.71	6.02	51.32	6.45	56.35	2.05	60.71	22.24	37.21	10.12	49.32	10.19	49.08
Date	BH25b2	BH 26	BH 26a	BH 27	BH 28a	BH 28b	BH 29	BH 30								
16-Mar-11	8.31	51.70	0.00	59.44	5.18	54.23	0.01	49.59	6.81	51.46	3.68	52.73	8.22	58.38	17.10	55.33
19-Apr-11	8.22	51.61	0.00	59.44	5.15	54.26	0.01	49.59	6.83	51.48	3.60	52.65	8.20	58.40	17.07	55.30
18-May-11	9.04	52.43	0.00	59.44	5.01	54.40	0.01	49.59	6.98	51.63	4.66	53.71	8.05	58.55	17.28	55.51
Date	BH31a	BH31b	BH32	BH33	BH34	BH35a	BH35b	BH36a								
16-Mar-11	15.45	49.04	13.04	50.33	3.94	54.72	1.04	59.23	9.87	48.88	17.08	49.18	10.92	55.34	7.53	59.00
19-Apr-11	15.40	48.99	13.01	50.30	3.98	54.68	0.9	59.37	9.39	49.36	16.19	50.07	10.91	55.35	7.53	59.00
18-May-11	15.51	49.10	13.14	50.43	3.35	55.31	0.78	59.49	9.86	48.89	17.21	49.05	10.83	55.43	7.36	59.17
Date	BH36b	BH37a	BH37b	BH38a	BH38b	BH39a	BH39b	BH40a								
16-Mar-11	7.48	59.05	3.62	53.92	3.80	53.80	4.23	54.25	4.87	53.60	7.11	54.88	4.97	57.16	10.76	60.56
19-Apr-11	7.46	59.07	3.62	53.92	3.79	53.81	4.17	54.31	4.88	53.59	7.15	54.84	4.94	57.19	10.72	60.60
18-May-11	7.30	59.23	3.55	53.99	3.24	54.36	4.08	54.40	4.73	53.74	7.12	54.87	4.86	57.27	10.59	60.73
Date	BH40b															
16-Mar-11	8.70	62.66														
19-Apr-11	8.67	62.69														
18-May-11	8.57	62.79														

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 sealevel (second column)

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



Note:
 Origin of Levels
 CAS5 5049830
 RL65.1412m
 in same terms as
 M205 5054417
 RL59.3059m

● SS3316 = Precise
 Level Survey
 Benchmarks

● BH16 = Borehole
 Location



PROJECT NO. 133004651
 DRAWING NO. 6451-100
 DATE: 11/2000
 REV: A3
 REV: A2
 REV: A1

TITLE: BOREHOLE LOCATION PLAN
 AS AT 10-3-05

CLIENT: WINSTONE AGGREGATES LTD
 THREE KINGS QUARRY

HARRISON
 GRILSON
 CONSULTING ENGINEERS SURVEYORS PLANNERS
 Level 1, Logan Road, 27 American Bay, Middleburg Heights, OH 44130, USA
 Tel: 01 938 399

NO	DATE	DESCRIPTION	BY	CHKD
1	10/07/05	ISSUED FOR PERMITS		
2	10/07/05	ISSUED FOR PERMITS		
3	10/07/05	ISSUED FOR PERMITS		
4	10/07/05	ISSUED FOR PERMITS		
5	10/07/05	ISSUED FOR PERMITS		

NO	DATE	DESCRIPTION	BY	CHKD
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5	10/07/05	ISSUED FOR PERMITS		