



**Three Kings Quarry – Permit No 12977**

**Groundwater Take To Dewater Three Kings Quarry**

**Quarterly Report**

**December 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 September to 30 November 2011.

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-11	11.17	0.86	34.39	32.39	38.49	43.33	28.31	40.30
19-Oct-11	10.88	0.55	34.70	32.63	38.50	43.14	28.22	40.39
16-Nov-11	10.99	0.68	34.57	32.70	38.46	43.15	28.52	40.09
Date	BH 10b	BH 11b	BH 12a	BH 12b	BH 13a	BH 13c	BH 16	BH 17
21-Sep-11	8.07	7.52	72.47	4.99	67.14	7.08	66.33	51.72
19-Oct-11	8.08	7.52	72.47	4.96	67.17	7.07	66.34	51.64
16-Nov-11	8.07	7.55	72.44	5.03	67.10	7.07	66.34	51.65
Date	BH 18A	BH 18B	BH 19A	BH 19B	BH 20	BH 20a	BH 21	BH 22
21-Sep-11	48.67	35.83	37.97	46.53	45.66	34.39	38.66	1.05
19-Oct-11	48.44	36.06	37.97	46.53	45.37	34.68	41.17	38.88
16-Nov-11	48.32	36.18	38.09	46.41	45.48	34.57	41.38	38.67
Date	BH 22a	BH 23	BH 23a	BH 24	BH 24a	BH 25	BH 25a	BH 25b1
21-Sep-11	10.28	64.86	5.29	51.91	5.81	51.53	6.27	56.53
19-Oct-11	10.31	64.83	5.25	51.95	5.89	51.45	6.35	56.45
16-Nov-11	10.26	64.88	5.34	51.86	5.94	51.40	6.40	56.40
Date	BH 25b2	BH 26	BH 26a	BH 27	BH 28a	BH 28b	BH 29	BH 30
21-Sep-11	8.68	52.07	0.00	59.44	5.05	54.36	0.01	49.59
19-Oct-11	8.56	51.95	0.00	59.44	5.01	54.40	0.01	49.59
16-Nov-11	8.51	51.90	0.00	59.44	5.09	54.32	0.01	49.59
Date	BH 31a	BH 31b	BH 32	BH 33	BH 34	BH 35a	BH 35b	BH 36a
21-Sep-11	15.60	49.19	13.21	50.50	0.74	59.53	6.95	49.80
19-Oct-11	15.53	49.12	13.26	50.55	0.8	59.47	6.99	49.76
16-Nov-11	15.45	49.04	13.2	50.49	0.96	59.31	9.65	49.10
Date	BH 36b	BH 37a	BH 37b	BH 38a	BH 38b	BH 39a	BH 39b	BH 40a
21-Sep-11	7.36	59.17	3.43	54.11	3.67	53.93	4.06	54.42
19-Oct-11	7.37	59.16	3.47	54.07	3.70	53.90	4.08	54.40
16-Nov-11	7.38	59.15	3.47	54.07	3.69	53.91	4.1	54.38
Date	BH 40b							
21-Sep-11	8.44	62.92						
19-Oct-11	8.53	62.83						
16-Nov-11	8.51	62.85						

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).

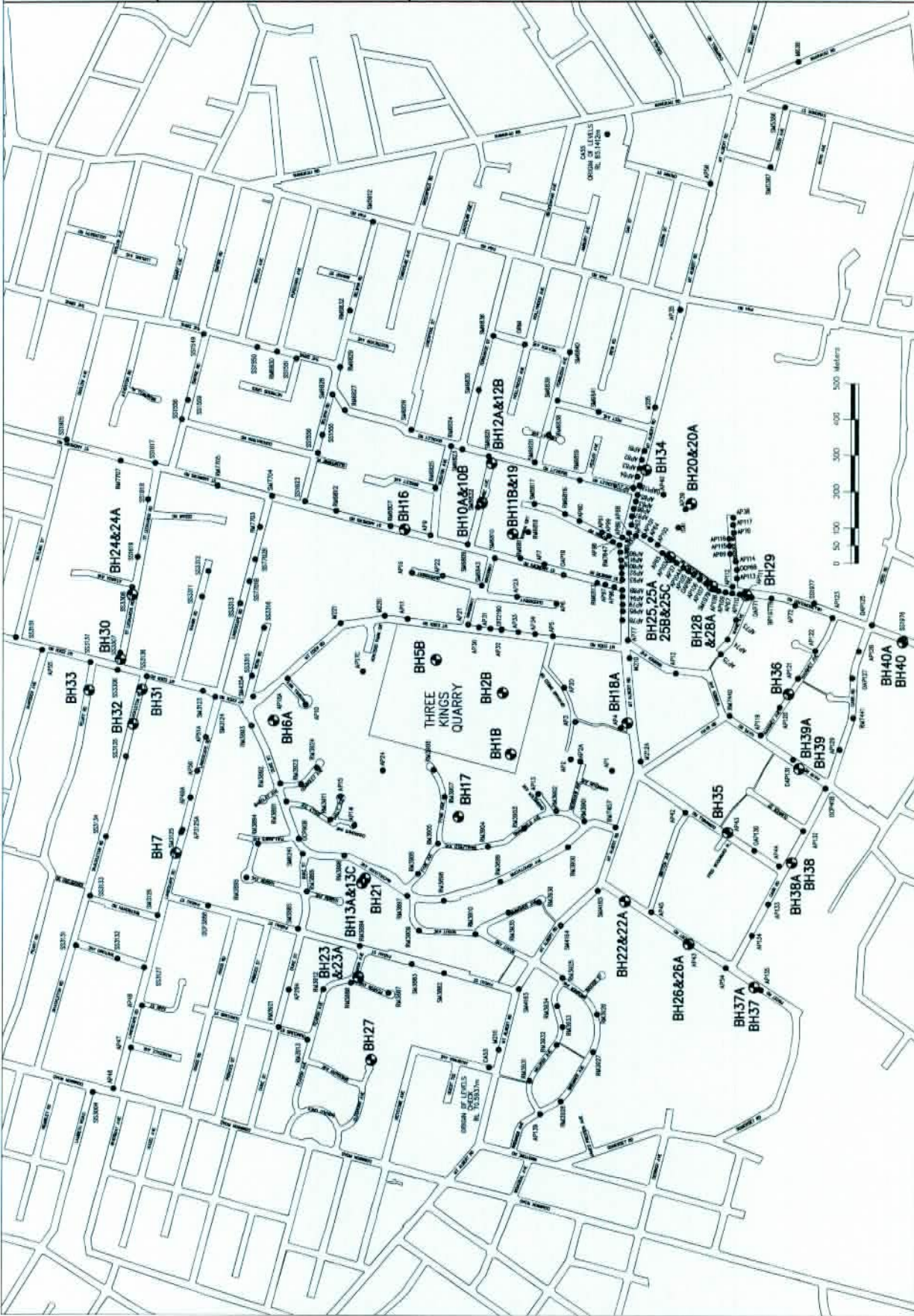
Waterlevels within pneumatic piezometers are expressed as head of water above piezometer tip (first column) and as elevations above seallevel (second column).

BH32 destroyed by Roding Contractors in June 2011.



Note:  
 Origin of Levels  
 CHS5 5049930  
 CHS3 5049930  
 in the terms of  
 M205 5054417  
 RL59.3057m

● SSS316 = Precise  
 Level Survey  
 Benchmarks  
 ● BH16 = Borehole  
 Location



PROJECT NO:	6451-100
DATE:	AS AT 10-3-05
DRAWN BY:	
CHECKED BY:	
SCALE:	

**BOREHOLE LOCATION PLAN  
 AS AT 10-3-05**

**WINSTONE AGGREGATES LTD  
 THREE KINGS QUARRY**

**HARRISON  
 CRIERSON**



CONSULTING ENGINEERS SURVEYORS PLANNERS  
 Level 5, Copthorne, 30 Broadwater Quay, Victoria, 3180  
 Tel: 03 958 5200 Fax: 03 958 5206

DATE:	10/03/05	SCALE:	AS SHOWN
PROJECT:	BOREHOLES	DATE:	10/03/05
CLIENT:	WINSTONE AGGREGATES LTD	PROJECT:	THREE KINGS QUARRY
LOCATION:	THREE KINGS QUARRY	SCALE:	AS SHOWN
DRAWN BY:	MD	CHECKED BY:	MD
DATE:	10/03/05	DATE:	10/03/05
SCALE:	AS SHOWN	SCALE:	AS SHOWN

3. BHL 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.