

## **Appendix 2**

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# **GROUNDWATER MONITORING RESULTS**

Sample Location	Sample Date	Alkalinity - Bicarbonate mg/L	Aluminium - total mg/L	Aluminium - mg/L	Arsenic - mg/L	Calcium - total mg/L	Chloride mg/L	Depth to Ground - metres	Depth to Standpipe - metres	Electrical Conductivity us/cm	Electrical Conductivity us/cm - field	Iron - total mg/L	Magnesium - total mg/L	Manganese - total mg/L	Nitrates mg/L	Nitrites mg/L	pH	Potassium - total mg/L	Sodium - total mg/L	Sulfates mg/L
GW1	13-Sep-00					111		19.5		1550		0.1	0.41		0.3		7.34	1.7	179	
GW1	12-Dec-00	560	<0.02		0.004	100	170	19.23		1520		0.25	33	<0.02	0.2	0.01	7.04	1.5	172	53
GW1	24-May-01									1480							7.64			
GW1	28-Aug-01																			
GW1	7-Dec-01									1430										
GW1	14-Feb-02																			
GW1	14-May-02																			
GW1	12-Aug-02																			
GW1	12-Nov-02																			
GW1	10-Feb-03																			
GW1	17-Nov-03																			
GW1	27-Jan-04																			
GW1	5-Feb-04							18.55	18.65											
GW1	10-May-04							Not Req	Not Req	1430										
GW1	23-Aug-04																			
GW2	13-Sep-00					95		20		1240		2.3	31		0.2		7.57	2.5	158	
GW2	12-Dec-00	570	<0.02		0.007	83	99	19.92		1280		0.25	24	0.06	0.5	0.01	7.38	2.2	153	29
GW2	24-May-01							15.84		1290							7.62			
GW2	28-Aug-01																			
GW2	7-Dec-01																			
GW2	14-Feb-02																			
GW2	14-May-02																			
GW2	12-Aug-02																			
GW2	12-Nov-02																			
GW2	10-Feb-03																			
GW2	17-Apr-03																			
GW2	19-Aug-03																			
GW2	17-Nov-03																			
GW2	27-Jan-04							19.56	20.31											
GW2	5-Feb-04							19.65	20.4											
GW2	10-May-04							19.6	20.34	1270										
GW2	23-Aug-04							21.62	20.32											
GW3	13-Sep-00					10.1		37.5		1740		0.7	8	<0.1			7.6	4	450	
GW3	12-Dec-00	990	0.02		<0.001	9	71	33.52		1930		0.95	7.6	0.02	<0.1	0.01	7.97	3.7	440	<1
GW3	24-May-01							34.61		1780							7.83			
GW3	28-Aug-01							45.13												
GW3	7-Dec-01							42.58		1710										
GW3	14-Feb-02																			
GW3	14-May-02							29.3		1780										
GW3	26-Aug-02							66.42												
GW3	12-Nov-02							46.41		1760										
GW3	10-Feb-03																			
GW3	17-Apr-03							66.47												
GW3	19-Aug-03							49.55	50.15											
GW3	18-Nov-03							66.7	67.28	1910										
GW3	27-Jan-04																			
GW3	9-Mar-04							36.29	36.89											
GW3	10-May-04							65.4	65.92	1790										
GW3	23-Aug-04							25.42	26.43											

Sample Location	Sample Date	Alkalinity - Bicarbonate mg/L	Aluminium - total mg/L	Arsenic - mg/L	Calcium - total mg/L	Chloride mg/L	Depth to Ground - metres	Depth to Standpipe - metres	Electrical Conductivity us/cm	Electrical Conductivity us/cm - field	Iron - total mg/L	Magnesium - total mg/L	Manganese - total mg/L	Nitrates mg/L	Nitrites mg/L	pH	Potassium - total mg/L	Sodium - total mg/L	Sulfates mg/L	
GW4	13-Sep-00																			
GW4	12-Dec-00																			
GW4	24-May-01																			
GW4	28-Aug-01																			
GW4	7-Dec-01																			
GW4	14-Feb-02																			
GW4	14-May-02																			
GW4	12-Aug-02																			
GW4	12-Nov-02																			
GW4	10-Feb-03																			
GW4	17-Apr-03																			
GW4	19-Aug-03						21.41	21.84												
GW4	18-Nov-03						21.54	21.91	3510											
GW4	27-Jan-04																			
GW4	9-Mar-04						21.48	21.9												
GW4	10-May-04																			
GW4	23-Aug-04						21.35	21.89												
GW5	13-Sep-00				50		24.75		5290		17.5	77.0		0.1		7.55	11.8	1100		
GW5	12-Dec-00						25.34													
GW5	24-May-01						24.27		5250							7.57				
GW5	28-Aug-01						24.57													
GW5	7-Dec-01						25.91		4520											
GW5	14-Feb-02						44.82													
GW5	14-May-02						24.82		4590											
GW5	26-Aug-02						24.72													
GW5	12-Nov-02						25.41		5000											
GW5	10-Feb-03						24.94													
GW5	17-Apr-03						25.38													
GW5	19-Aug-03						24.49	25.76												
GW5	18-Nov-03						24.72	25.08	4470											
GW5	27-Jan-04						24.44	24.79												
GW5	11-May-04						24.5	24.82												
GW5	23-Aug-04						24.44	24.84												
GW6	28-Sep-00				47		18		720		27	20		0.4		7.61	9	69		
GW6	12-Dec-00	240	<0.02		<0.001	29	14	17.87	460		3.2	12.3	0.14	0.2	0.01	7.78	9.6	51	1	
GW6	24-May-01							17.85	495							7.76				
GW6	28-Aug-01							17.83												
GW6	7-Dec-01							17.76	410											
GW6	14-Feb-02							17.68												
GW6	14-May-02																			
GW6	26-Aug-02							18.03												
GW6	12-Nov-02							18.07	575											
GW6	10-Feb-03							18.27												
GW6	17-Apr-03							18.65												
GW6	19-Aug-03							19.94	20.32											
GW6	17-Nov-03	320		2.9	0.008	44	77	21.29	21.69	840	75	14	0.36	0.3	0.01	7.7	14	100	3	
GW6	27-Jan-04							24.52	24.94											
GW6	11-May-04							27.49	27.88											
GW6	23-Aug-04							30.65	31.03											

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GW7	28-Sep-00					22		26		3890		62	88		0.4		8.16	200	448	
GW7	12-Dec-00																			
GW7	24-May-01																			
GW7	28-Aug-01																			
GW7	14-Feb-02																			
GW7	14-May-02																			
GW7	12-Aug-02																			
GW7	12-Nov-02																			
GW7	10-Feb-03																			
GW7	17-Apr-03							26												
GW7	19-Aug-03							25.82	26.25											
GW7	18-Nov-03							25.79	26.25	4300										
GW7	27-Jan-04							25.69	26.16											
GW7	11-May-04							25.79	26.23		4130									
GW7	23-Aug-04							25.79	26.28											
GW8	28-Sep-00							14												
GW8	12-Dec-00							13.98												
GW8	24-May-01																			
GW8	28-Aug-01																			
GW8	7-Dec-01																			
GW8	14-Feb-02																			
GW8	14-May-02																			
GW8	12-Aug-02																			
GW8	12-Nov-02																			
GW8	10-Feb-03																			
GW8	17-Apr-03							14.55												
GW8	19-Aug-03							15.02	15.62											
GW8	17-Nov-03							15.58	16.22	2270										
GW8	27-Jan-04							15.91	16.55											
GW8	11-May-04							16.63	17.27		2100									
GW8	23-Aug-04							17.48	18.11											
GW9	13-Sep-00																			
GW9	12-Dec-00																			
GW9	24-May-01																			
GW9	28-Aug-01																			
GW9	7-Dec-01																			
GW9	14-Feb-02																			
GW9	14-May-02																			
GW9	12-Aug-02																			
GW9	12-Nov-02																			
GW9	10-Feb-03																			
GW9	17-Apr-03							21.05												
GW9	19-Aug-03							20.92	21.71											
GW9	18-Nov-03							20.96	21.58	13120										
GW9	27-Jan-04							20.8	21.57											
GW9	11-May-04							20.93	21.63		12880									
GW9	23-Aug-04							20.88	21.61											

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GW10	13-Sep-00							26.5													
GW10	12-Dec-00	190	<0.02		0.005	158	1113	No access		3700		1.4	31	0.06	<0.1	0.01	7.25	9.5	600	126	
GW10	24-May-01							19.19		6580							9.17				
GW10	28-Aug-01							19		5720											
GW10	7-Dec-01	665	<0.02		0.003	94	922	19.33		4220		0.4	48	0.05	<0.1	0.03	6.9	9.6	730	170	
GW10	14-Feb-02							19.3													
GW10	14-May-02									4100											
GW10	12-Aug-02							* Blocked		6530											
GW10	12-Nov-02	990		0.13	<0.0002	101	1540			6900		0.25	108	0.1	<0.1	0.01	7.5	17.6	1360	450	
GW10	10-Feb-03									4230											
GW10	17-Apr-03							24.22													
GW10	19-Aug-03							20.47	20.82	3920											
GW10	18-Nov-03							19.68	20.05												
GW10	27-Jan-04							21.73	22.44		6160										
GW10	11-May-04																				
GW10	23-Aug-04										7360										
GW11	28-Sep-00					78		18.5		6750		0.05	90		<0.1		6.9	15.6	1300		
GW11	12-Dec-00	980	<0.02		0.007	4.8	1390	N/A		6270		0.15	77	<0.02	0.1	0.01	7.97	9.9	1300	325	
GW11	24-May-01							No access		4880							8.12				
GW11	28-Aug-01							19.45		4150											
GW11	7-Dec-01	140	<0.02		0.005	164	1418	20.07		4600		0.55	42	0.05	<0.1	<0.02	7.7	13.2	710	65	
GW11	14-Feb-02									3850											
GW11	14-May-02									6760											
GW11	12-Aug-02							Pump running		6450											
GW11	12-Nov-02	1150		0.052	0.0002	112	1490			7000		0.7	114	<0.02	0.8	0.01	6.8	16.6	1350	575	
GW11	10-Feb-03									6230											
GW11	17-Apr-03																				
GW11	19-Aug-03																				
GW11	18-Nov-03	1110		<0.005	<0.001	108	1560			6710		0.1	104	<0.02	0.6	0.01	6.8	18	1250	430	
GW11	27-Jan-04									1920											
GW11	11-May-04									6600											
GW11	23-Aug-04																				