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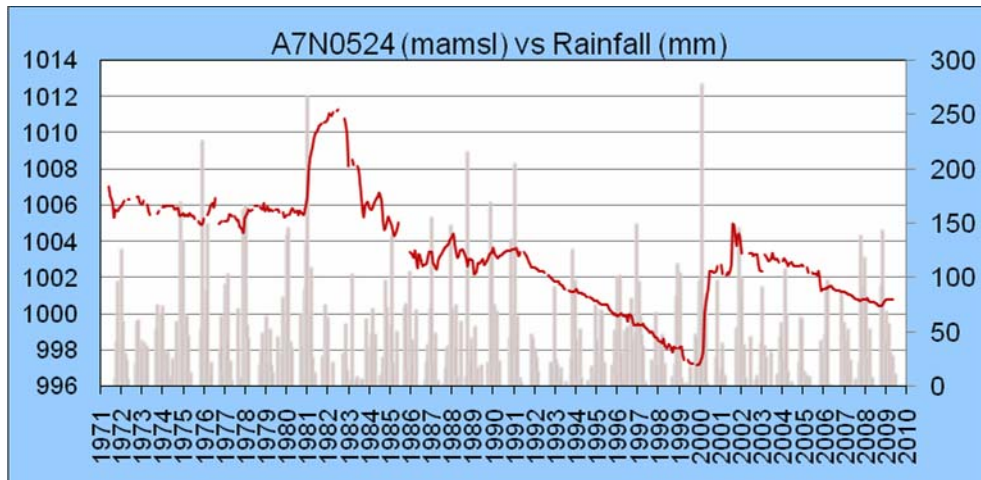


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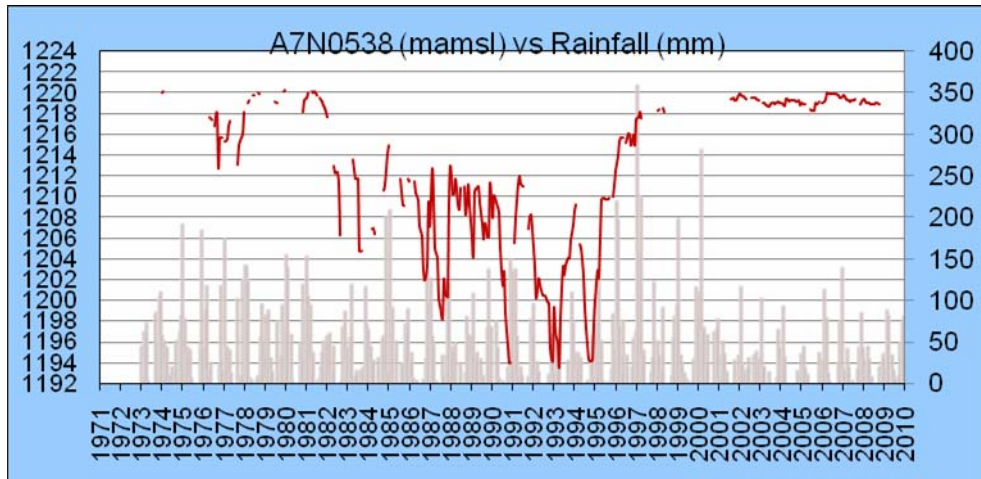


## 8. APPENDIXES

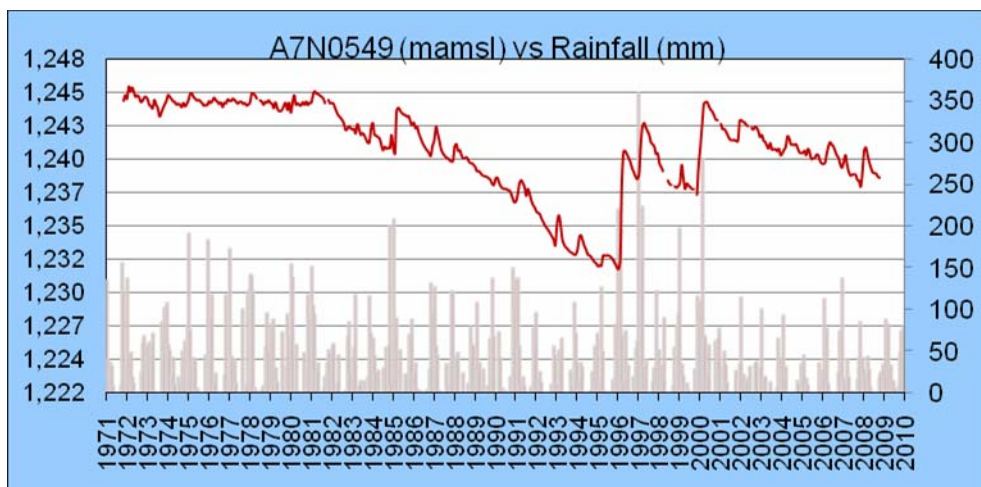
### Appendix A - Borehole hydrographs



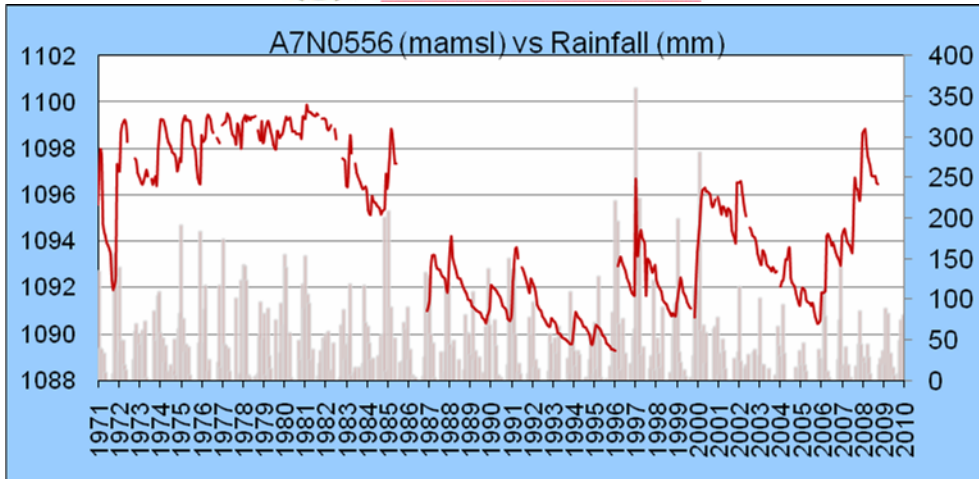
Borehole hydrograph of station A7N0524.



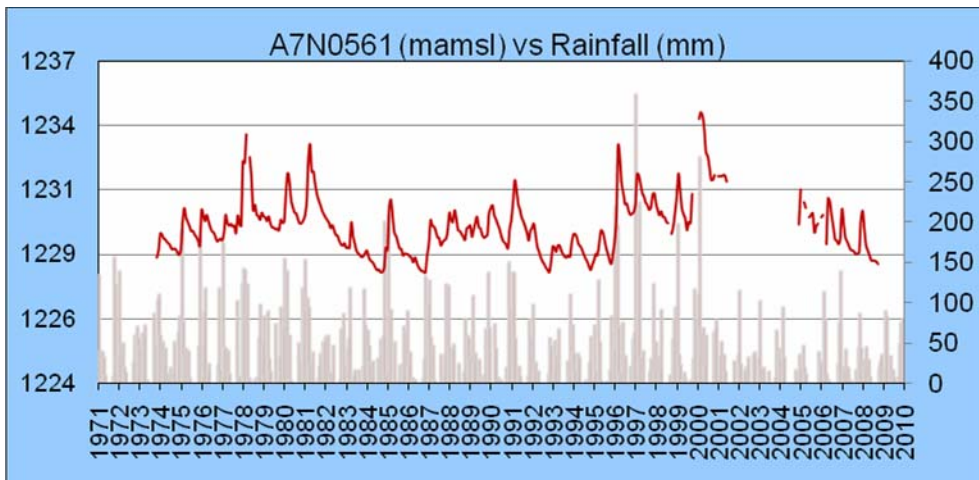
Borehole hydrograph of station A7N0538.



Borehole hydrograph of station A7N0549.

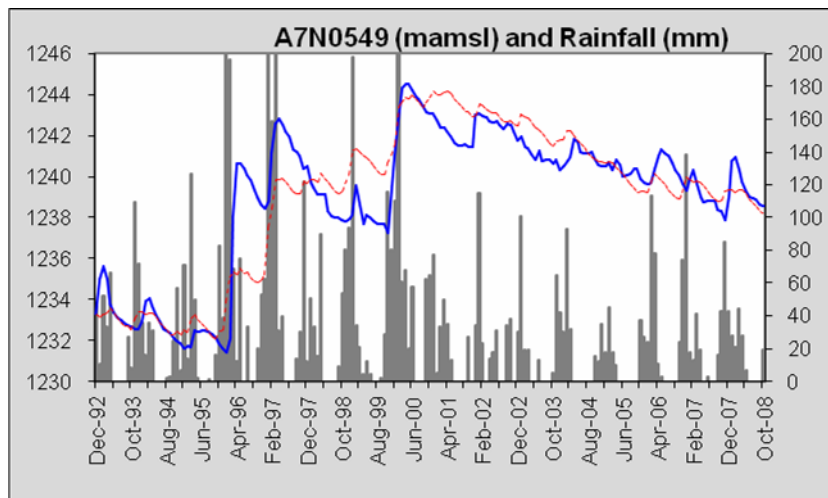


Borehole hydrograph of station A7N0556.

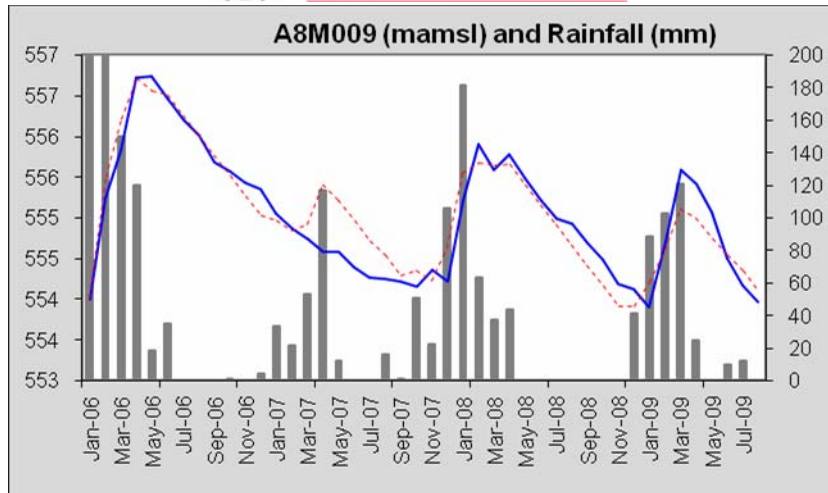


Borehole hydrograph of station A7N0561.

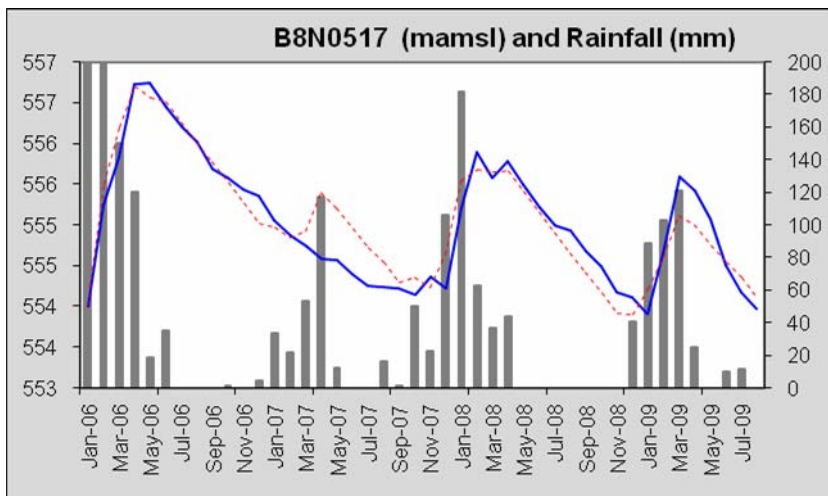
### Appendix B - CRD simulations



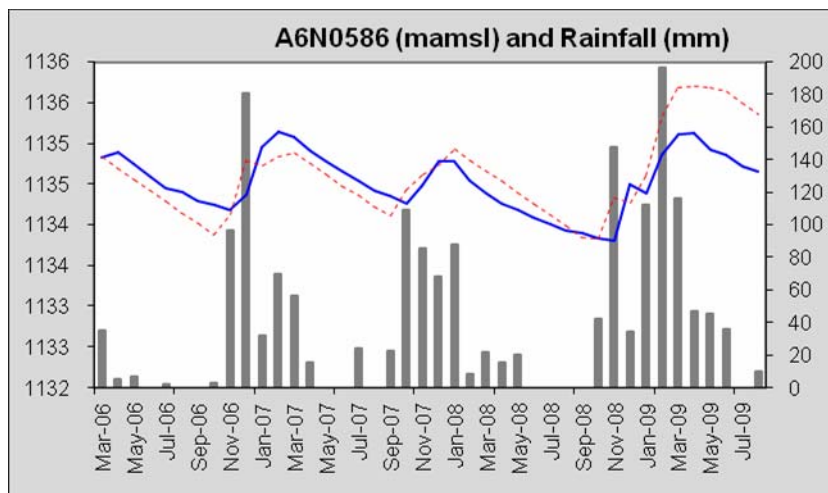
Observed and simulated CRD graph for station A7N0549.



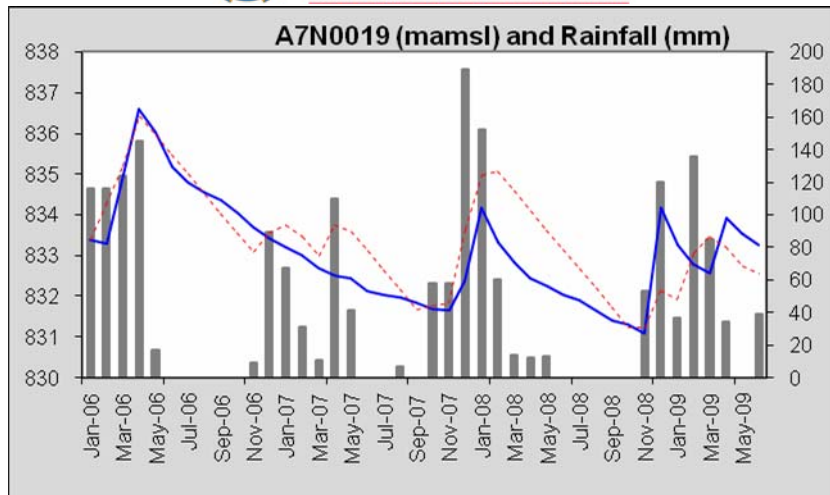
Observed and simulated CRD graph for station A8M009.



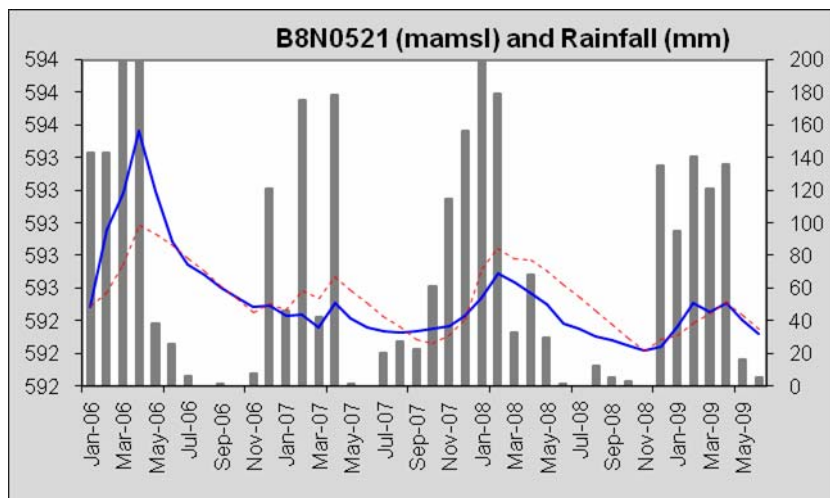
Observed and simulated CRD graph for station B8N0517.



Observed and simulated CRD graph for station A6N0586.

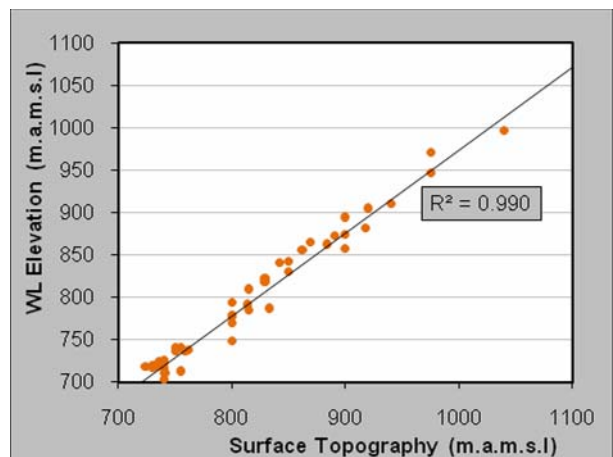
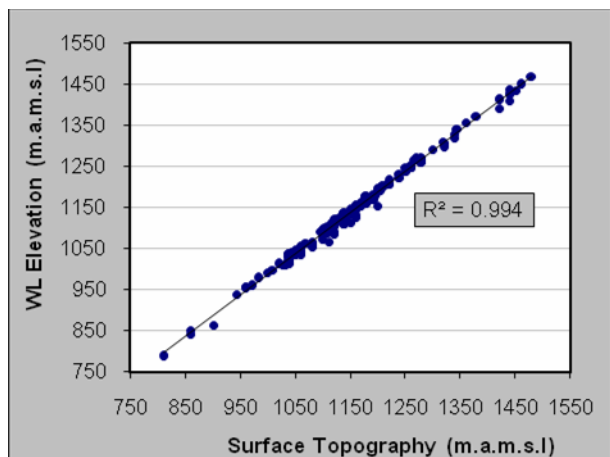


Observed and simulated CRD graph for station A7N0019.



Observed and simulated CRD graph for station B8N0521.

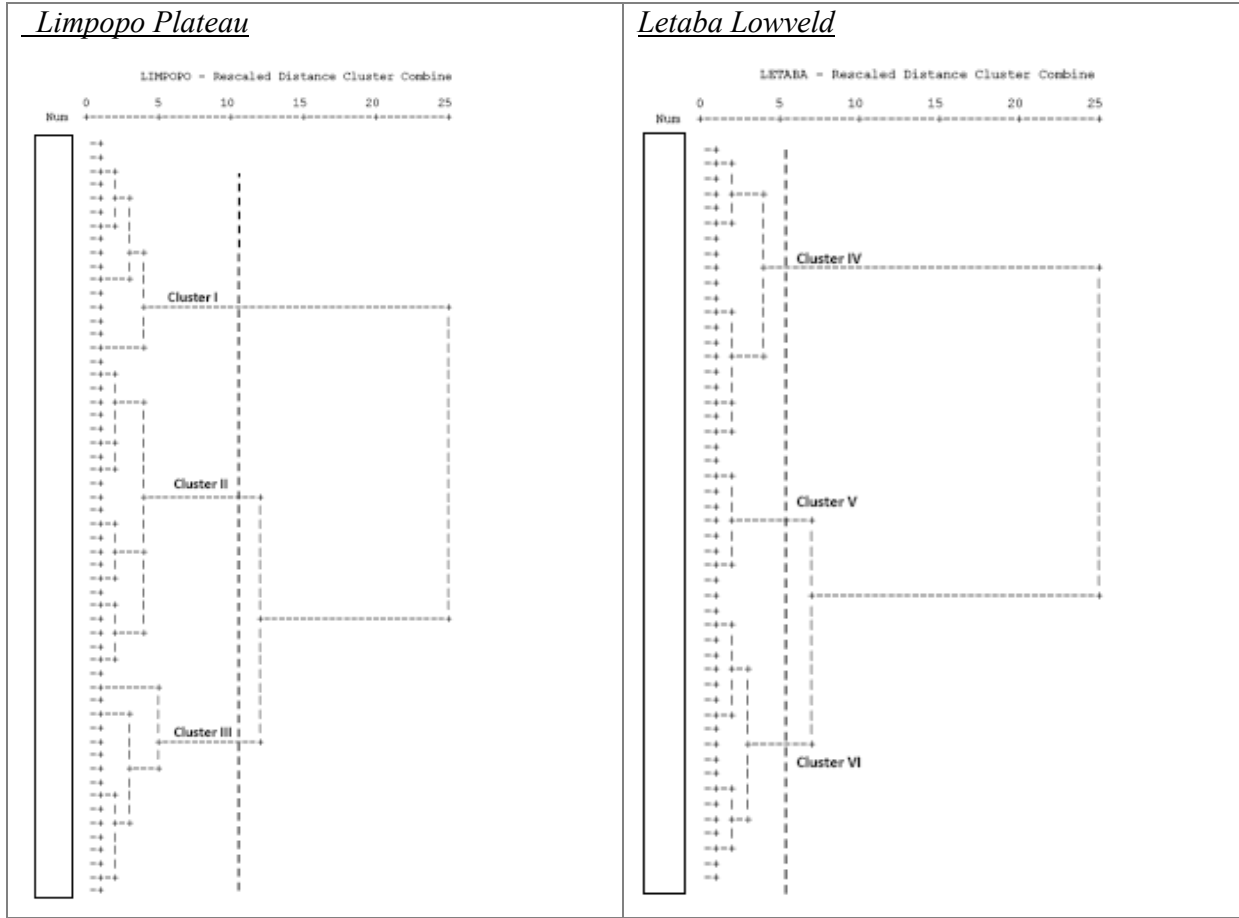
### Appendix C - Surface topography vs. groundwater level correlation



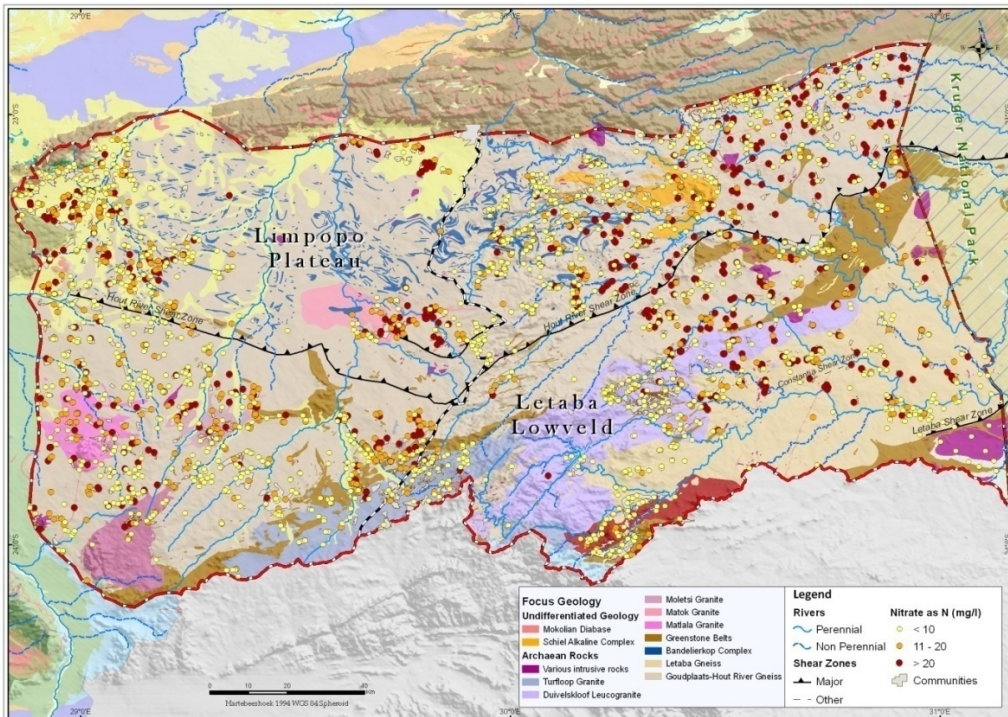
Correlation between surface topography and water level elevations for Limpopo Plateau (left) and Letaba Lowveld (right).



### Appendix D - Hierarchical cluster analysis (dendrogram)



### Appendix E - Nitrate distribution map



Map showing distribution of nitrate in groundwater in the Limpopo Plateau and Letaba Lowveld.



## Appendix F - Details of pumping tests

Area	BH Nr.	Date	BH Depth (m.b.g.l)	Water Level (m.b.g.l)	Constant Yield (ℓ/s)	Duration (hrs)	Drawdown	Well Efficiency @ constant rate	Well loss (C)
Limpopo Plateau	H11-1650	Aug-08	64	21.44	31	72	5.6	65%	978
	H11-1653	Sep-08	79	22.23	33	24	4.6	60%	1543
	H11-2110	Sep-08	67	22.52	22	24	11.4	50%	1860
	H11-1782	Aug-08	101	36.38	11	24	16.0	20%	> 3800
	11-1763	May-08	150	34.64	1.4	24	11.0	30%	> 3800

Area	BH Nr.	Date	BH Depth (m.b.g.l)	Water Level (m.b.g.l)	Constant Yield (ℓ/s)	Duration (hrs)	Drawdown	Well Efficiency @ constant rate	Well loss (C)
Letaba Lowveld	H10-0818	May-08	51	12.48	2	24	7.3	-	-
	H10-0796	Apr-08	80	23.16	0.9	24	7.9	> 3800	41%
	H10-0191	Apr-08	83	30.09	5	24	19.0	> 3800	50%
	H14-0277	Aug-09	60	6.36	5.4	48	10.2	> 3800	15%
	H14-0279	Aug-09	85	7.61	6.3	48	20.9	> 3800	10%
	H14-0453	Aug-09	47	7.86	7.5	48	18.0	-	-
	H17-0359	Dec-07	113	24.80	1.2	24	18.0	> 3800	20%
	H17-0724	Dec-07	72	22.56	1.1	24	23.4	> 3800	40%
	H17-0774	Nov-07	52	12.53	1.2	24	8.0	> 3800	46%
	H14-0454	Aug-09	37	11.24	5	48	12.7	> 3800	45%
	H14-0275	Aug-09	59	28.55	5	48	11.9	-	-