



5.3 EXTRACTABLE GROUNDWATER YIELD

5.3.1 EXTRACTABLE GROUNDWATER YIELD IN PILOT AREAS

Table 5.2 shows the rating and the expected extractable yield of the pilot areas.

Table 5.2 Rating and Extractable Yield of the Pilot Areas

		Deeper (100-200m)				Lower (70-100m)				Upper (0-70m)					Exploitable Aquifer / Yield expected				
		Т	Q/s	Q	Rated Level	litres/min	Т	Q/s	Q	Rated Level	litres/min	Т	Q/s	Q	Rated Level	litres/min	(Well Depth)	(litres/min)	Q (m3/h)
Ml	Hambegamuwa	Moderately Fair					С		M. Fair - Fair			В	< 100	Upper(70m)	< 100	< 6			
M2	Bodagama	P			C		G	G	G	A	440	F			С		Lower (100m)	440	26.4
M3	Hulandawa left	Fair						В	< 100	Fair			В	< 100	Upper- Lower(100m)	< 100	< 6		
M4	Unawatuna	Fair - Good					В	< 100	M. Fair - Fair		В-С	< 100	Upper- Lower(100m)	< 100	< 6				
M5	Yalabowa	P	F	F	С	73	G	G	G	A	610	F	G-	P	С	35	Lower (100m)	35	36.6
M6	Badalkumbura		*		*	*	G	G	G	A	950	F			C		Lower (100m)	950	57
M7	Sevanagala	P			C					С		F	G-	F	В	85	Upper (70m)	85	5.1
Hl	Keliyapura	P Imperceptible						Imper	ceptible	F	F	P	С	12	Upper	Po	or		
H2	Vitarandeniya	Moderately Fair				С	< 50	G-	F	P	С	20	Lower (100m)	< 50	< 3				
НЗ	Talunna	G	G	G	A	415				С		r - M	Fair		С		Deeper (200m)	415	24.9
H4	Wediwewa	P			С					С		P	P	P	С	1.9	Poor -	Imperceptib	le
Н5	Tammennawewa		*		*	*	G	G	G	A	432	F	F	P	С	3.5	Lower (100m)	3.5	25.92
Н6	Pahala Mattala	P	F	F	С	50				?		G	G	G	A	106	Upper (70m)	106	6.36
Н7	Siyambalagaswila	P			С					С		F	F	P	С	3	Poor		
Н8	Ranna	Good					В	< 100	Poor			С		Lower-Deeper (200m)	< 100	< 6			

G: Good F: Fair P: Poor

5.3.2 EXTRACTABLE GROUNDWATER YIELD OF PROMISING AREA

Figure 5.2 was drawn to show the promising area for the upper fractured aquifer and for the lower/deeper fractured aquifer. The classification of the area is summarised in *Table 5.3*.

Table 5.3 Classification of the Promising Area

Area	Point (Upper)	Points (Lower/Deeper)	Promising Aquifer	Well Depth	EC	Expected Yield
VGvg	6	6	Upper/Lower/Deepr	70 (or 100 - 200)	< 750	100 <
VG	6	< 6	Upper	70	< 750	100 <
vg	< 6	6	Lower/Deeper	100 - 200	< 750	100 <
Glgl	4	4	Upper/Lower/Deepr	70 (or 100 - 200)	< 750	50 - 100
G1	4	< 4	Upper	70	< 750	50 - 100
g1	< 4	4	Lower/Deeper	100 - 200	< 750	50 -100
G2g2	3	3	Upper/Lower/Deepr	70 (or 100 - 200)	750 - 3500	100 <
G2	3	< 3	Upper	70	750 - 3500	100 <
g2	< 3	3	Lower/Deeper	100 - 200	750 - 3500	100 <

Note; Capital letter means the evaluation of the upper aquifer, for example VG is Very Good of the upper aquifer and vg is Very Good of the lower/deeper aquifer.

A blank column; Constant discharge test could not be continued for 720 min. *: The well was not drilled up to the deeper aquifer.

