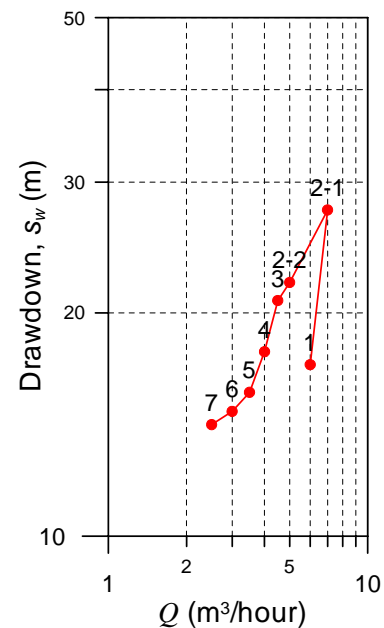
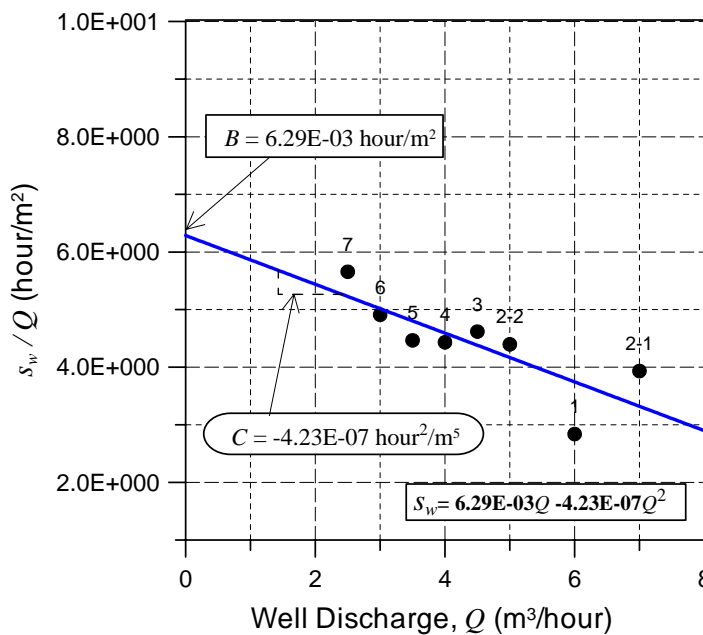
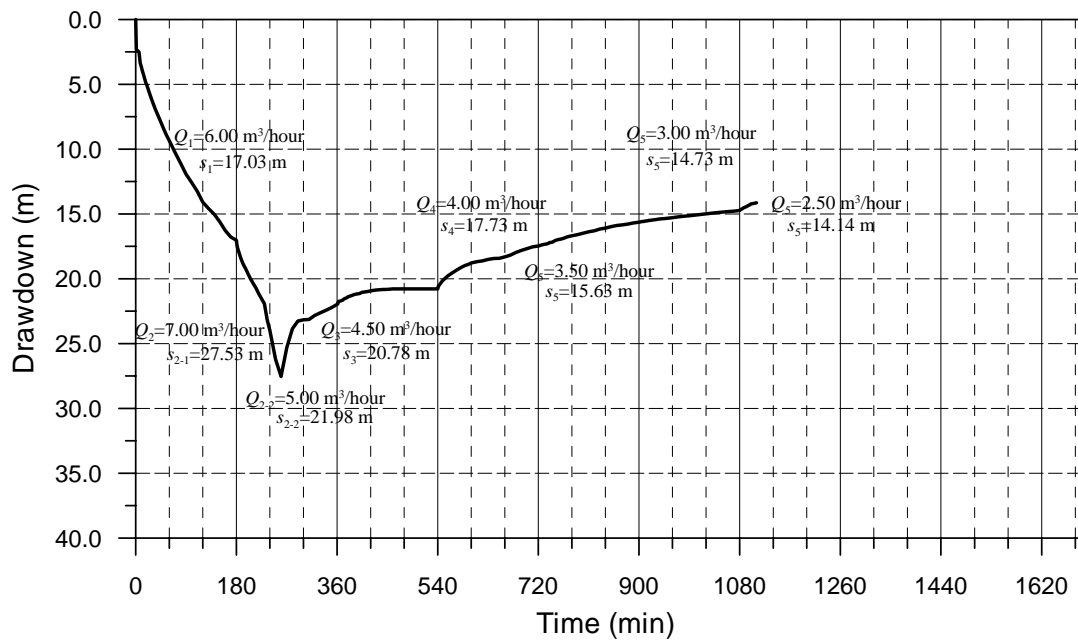
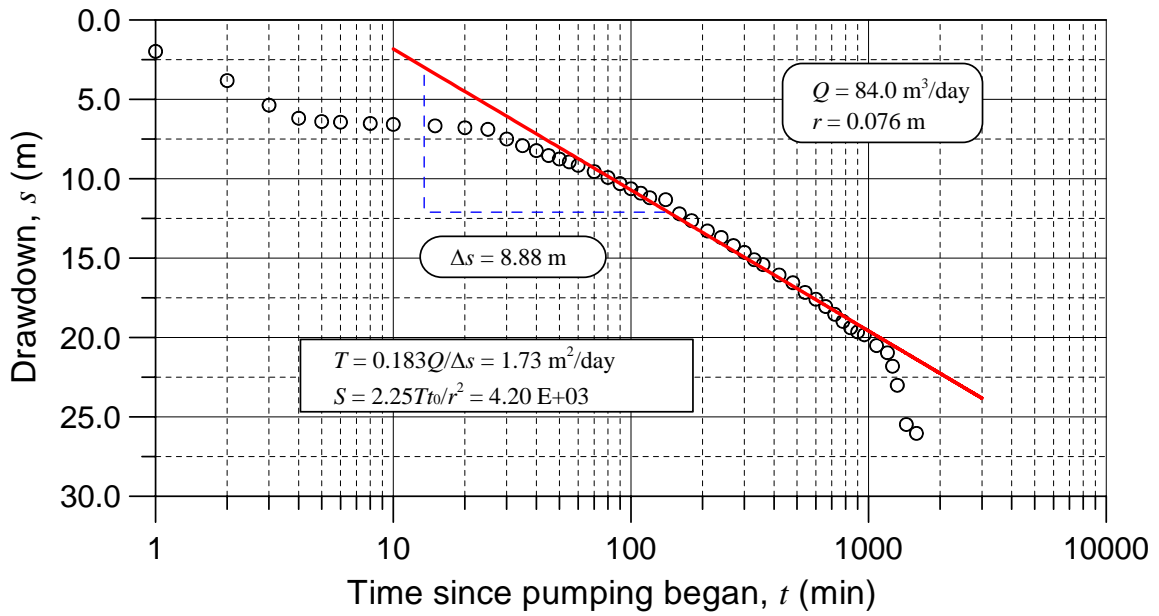


② Pumping Test

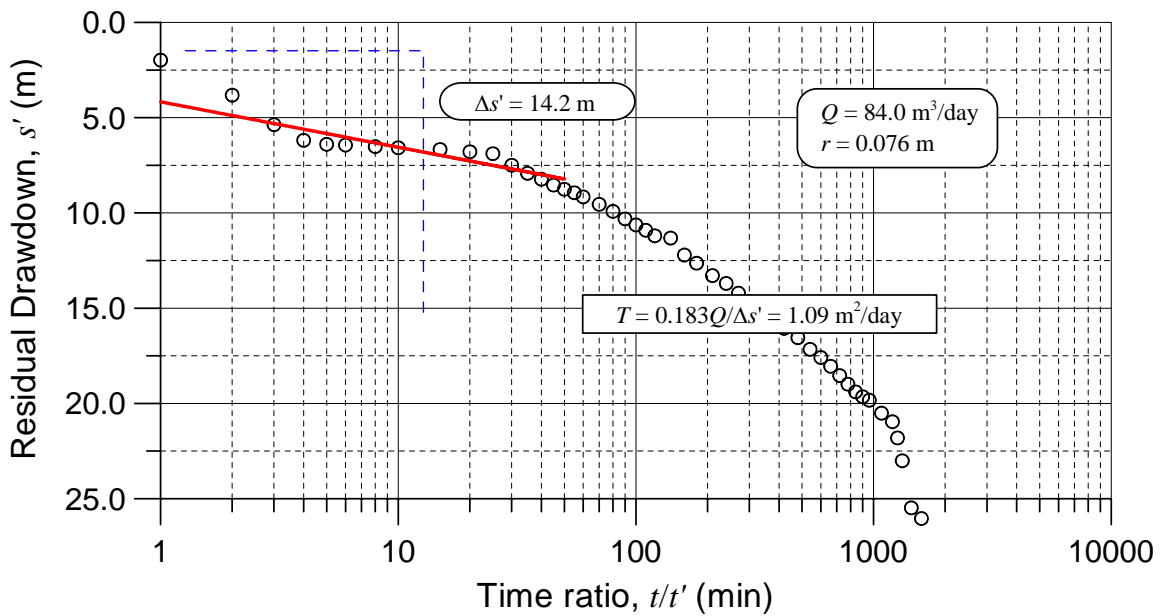


Location: Busongo, Misungwi District,
Mwanza Region
Site No.: Misungwi 25
Well No.: T1
Well Depth: 50 m
Well Diameter: 6"
Screen Depths: 27.44-30.26,
35.90-47.18 m
Screen Length: 14.10 m
SWL: GL- 7.83 m
on 29-09-2005

Figure	Results of Step-Drawdown Test at T1 Test Well (BUSONGO)
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



Drawdown in Pumped Well



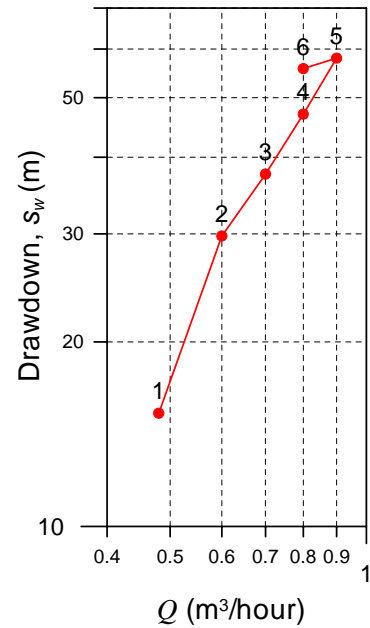
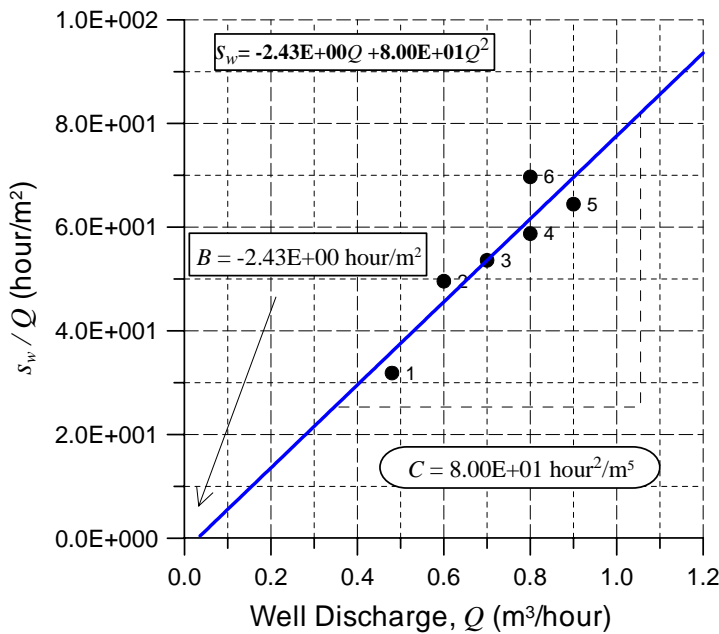
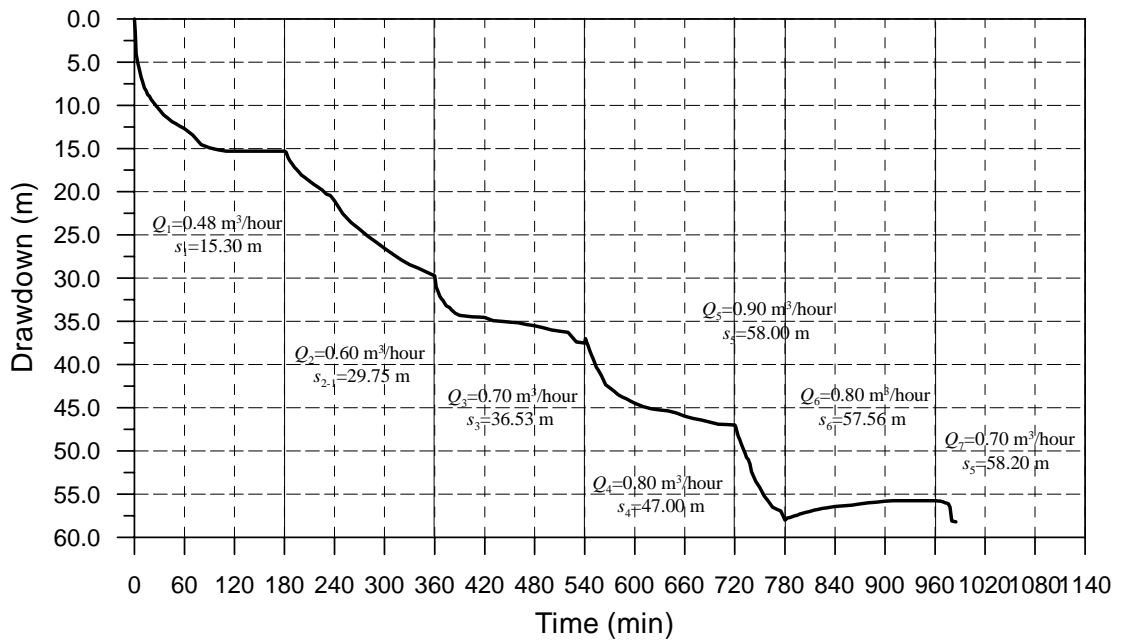
Recovery in Pumped Well

Location: Busongo, Misungwi District,
Mwanza Region
Site No.: Misungwi 25
Well No.: T1
Well Depth: 50 m
Well Diameter: 6"
Screen Depths: 27.44-30.26,
35.90-47.18 m
Screen Length: 14.10 m
SWL: GL- 7.83 m
on 29-09-2005

Figure Results of Continuous Pumping Test and Recovery Test at T1 Test Well (BUSONGO)

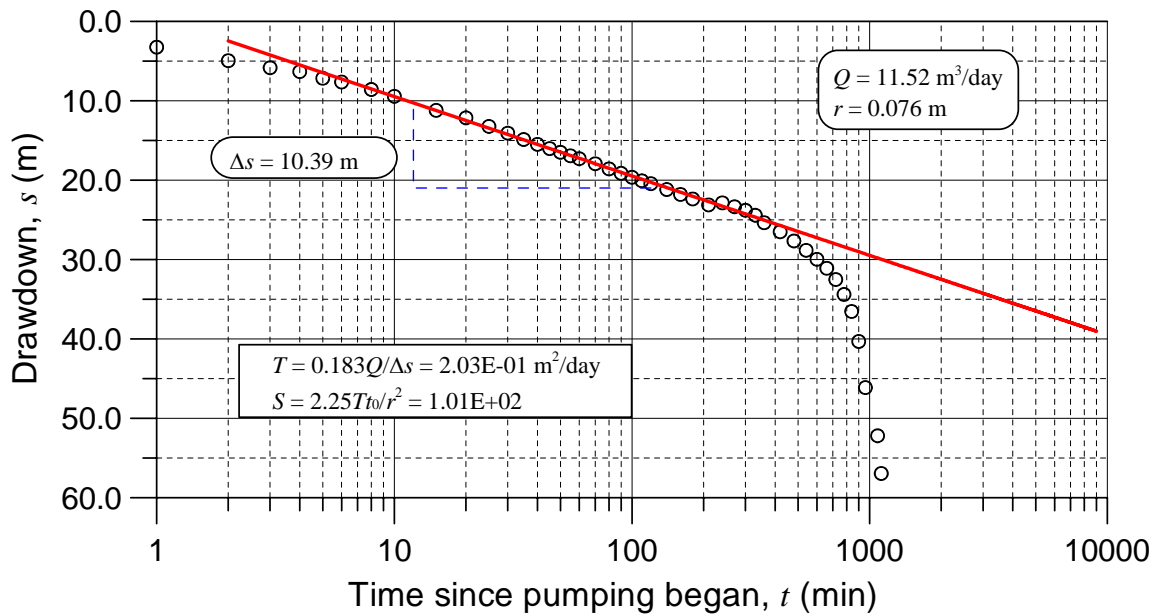
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS IN THE UNITED REPUBLIC OF TANZANIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

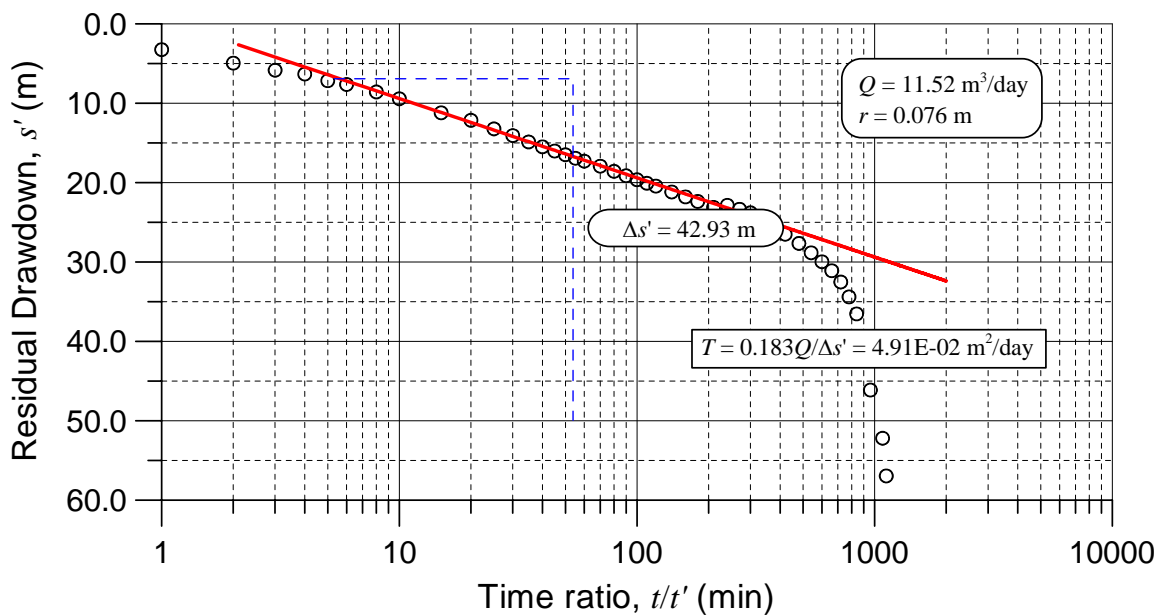


Location: Busekeseke, Sengerema District,
 Mwanza Region
 Site No.: Sengerema 83
 Well No.: T2
 Well Depth: 72.00 m
 Well Diameter: 6"
 Screen Depths: 63.12-69.02 m
 Screen Length: 5.92 m
 SWL: GL- 1.80 m
 on 19-10-2005

Figure	Results of Step-Drawdown Test at T2 Test Well (BUSEKESEKE)
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



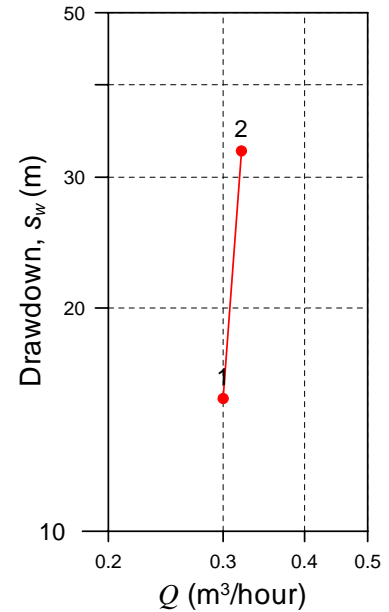
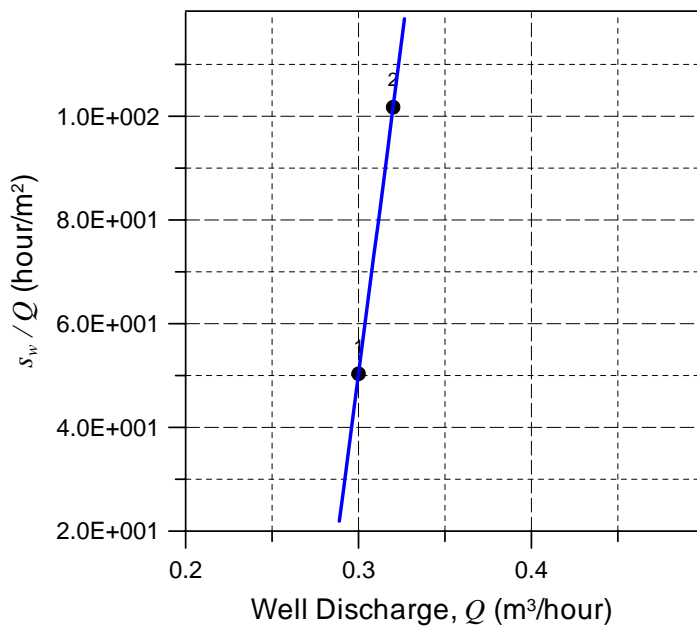
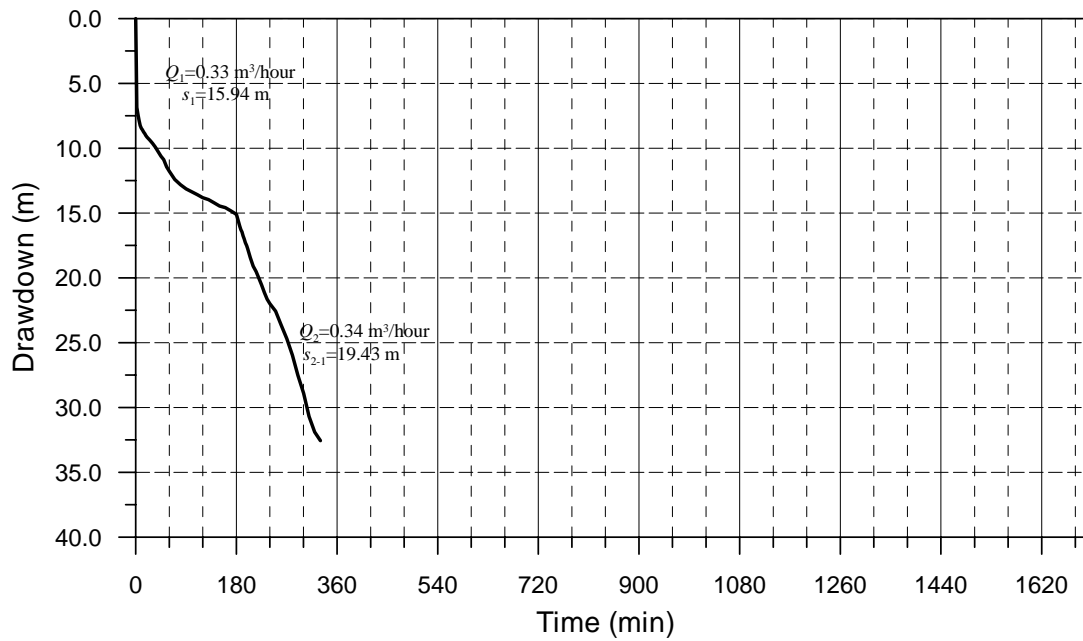
Drawdown in Pumped Well



Recovery in Pumped Well

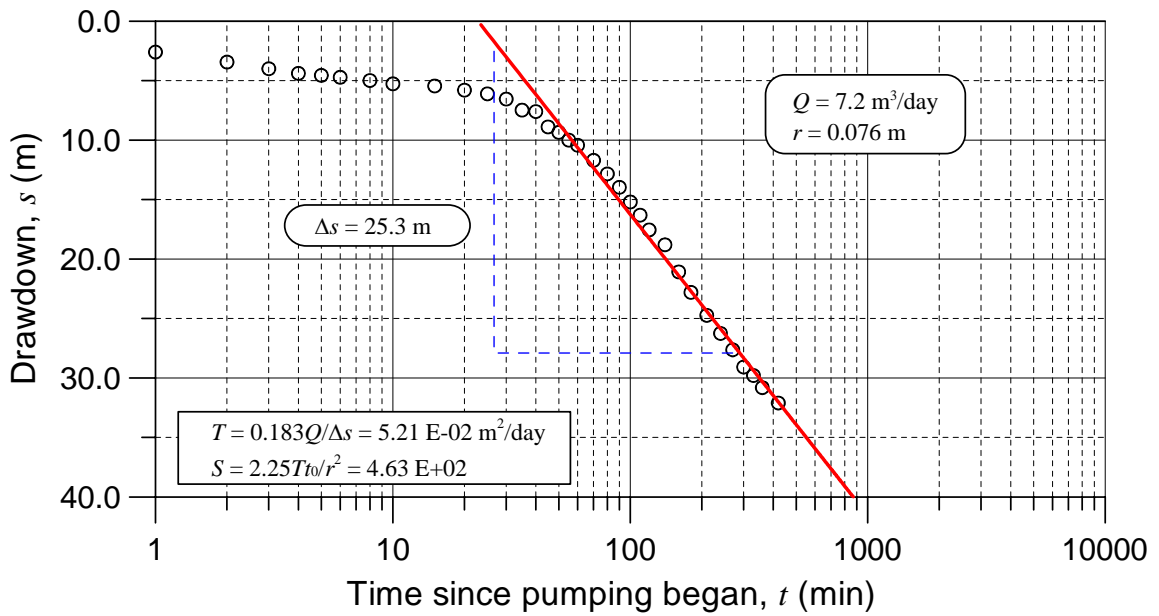
Location: Busekeseke, Sengerema District,
Mwanza Region
Site No.: Sengerema 83
Well No.: T2
Well Depth: 72.00 m
Well Diameter: 6"
Screen Depths: 63.12-69.02 m
Screen Length: 5.92 m
SWL: GL- 1.80 m
on 19-10-2005

Figure	Results of Continuous Pumping Test and Recovery Test at T2 Test Well (BUSEKESEKE)
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

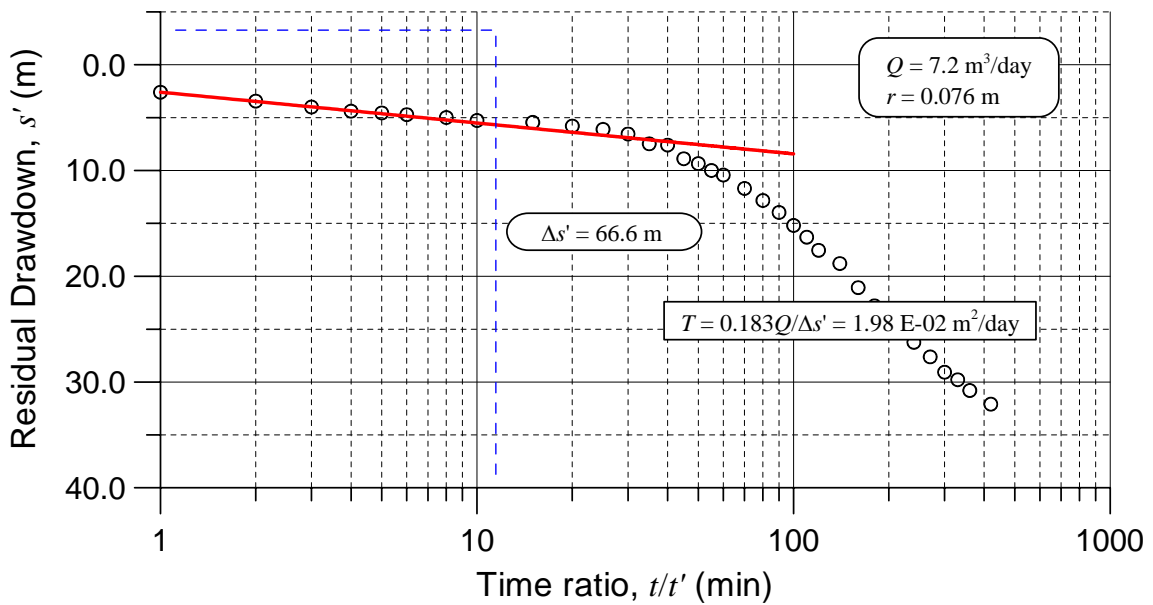


Location: Nyamatala, Kwimba District,
Mwanza Region
Site No.: Kwimba 69
Well No.: T3
Well Depth: 49.00 m
Well Diameter: 6"
Screen Depths: 37.16-46.04 m
Screen Length: 9.88 m
SWL: GL- 9.44 m
on 07-10-2005

Figure	Results of Step-Drawdown Test at T3 Test Well (NYAMATALA)
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



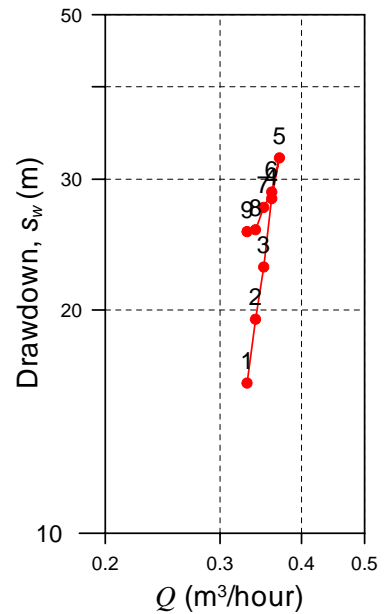
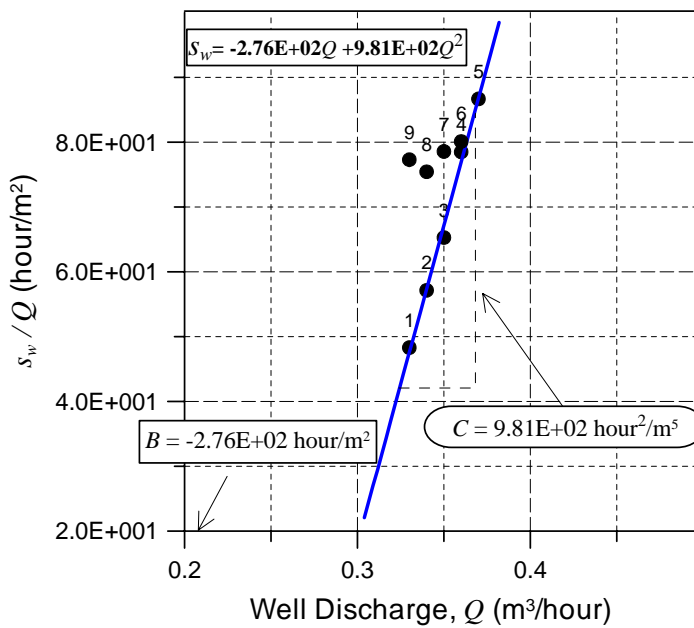
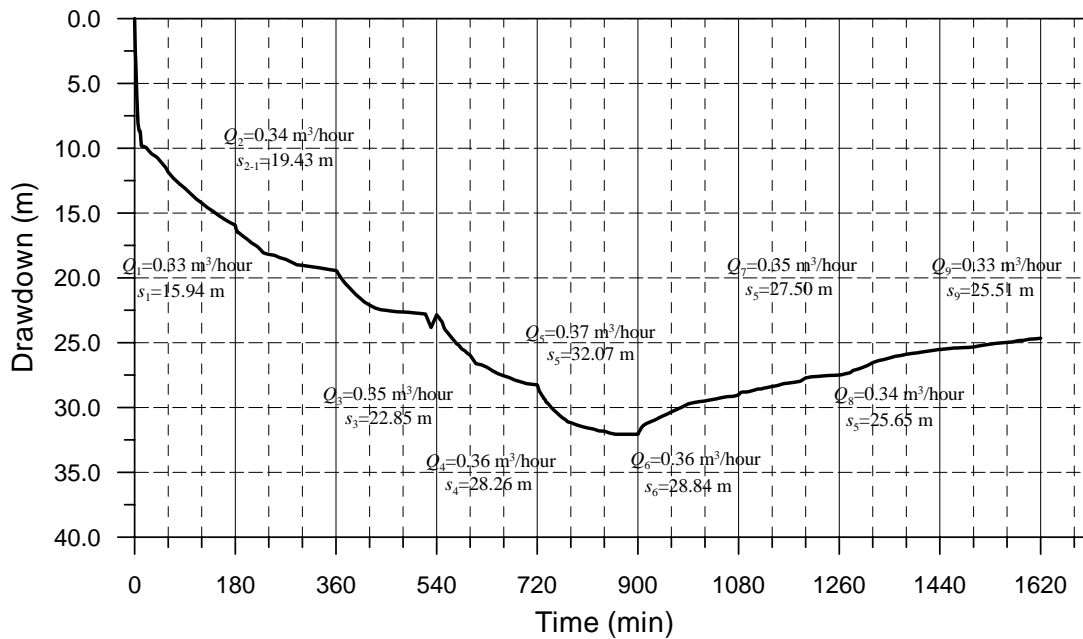
Drawdown in Pumped Well



Recovery in Pumped Well

Location: Nyamatala, Kwimba District,
Mwanza Region
Site No.: Kwimba 69
Well No.: T3
Well Depth: 49.00 m
Well Diameter: 6"
Screen Depths: 37.16-46.04 m
Screen Length: 9.88 m
SWL: GL- 9.44 m
on 07-10-2005

Figure	Results of Continuous Pumping Test and Recovery Test at T3 Test Well (NYAMATALA)
	THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS IN THE UNITED REPUBLIC OF TANZANIA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



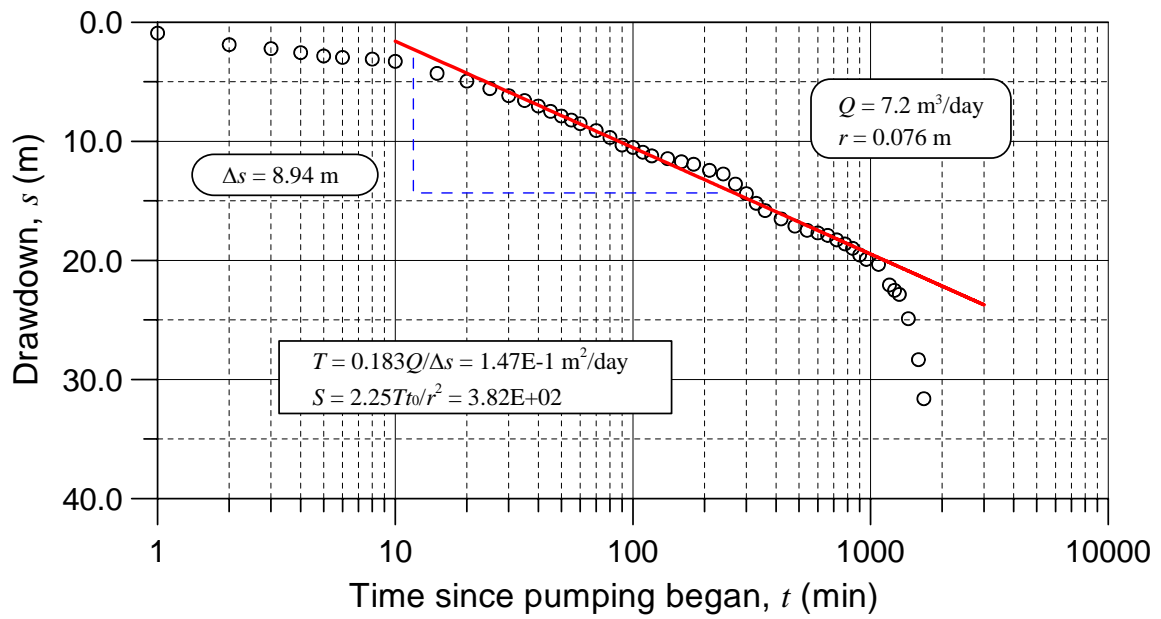
Location: Igekemaja, Magu District,
 Mwanza Region
 Site No.: Magu 37
 Well No.: T4
 Well Depth: 53.28 m
 Well Diameter: 6"
 Screen Depths: 35.52-41.44,
 44.40-50.32 m
 Screen Length: 11.84 m
 SWL: GL- 5.28 m
 on 02-10-2005

Figure

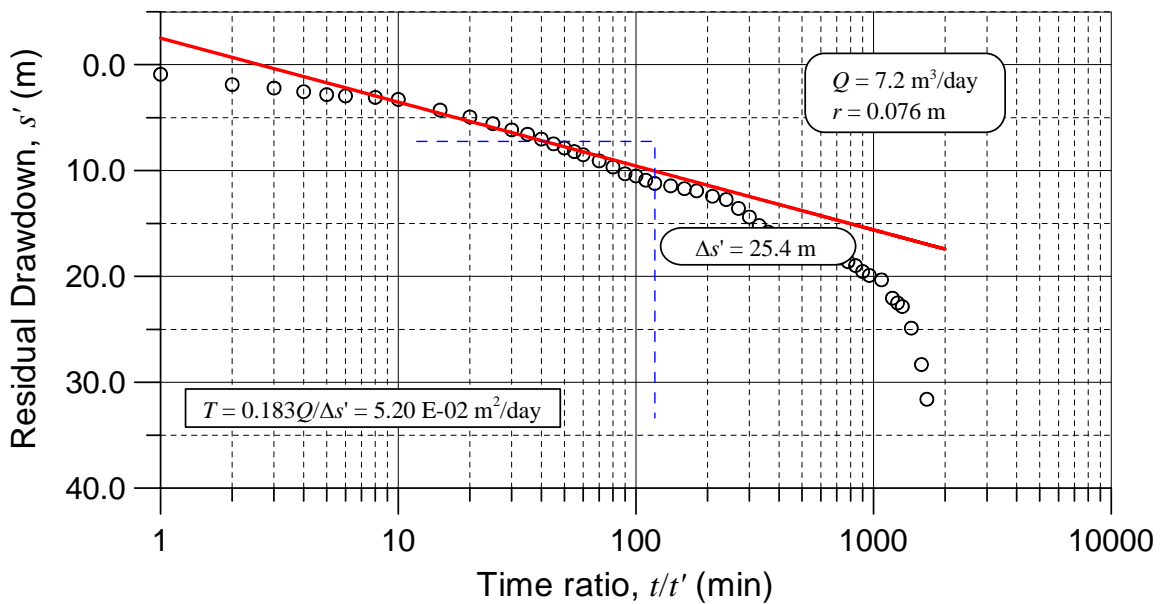
**Results of Step-Drawdown Test
at T4 Test Well (IGEKEMAJA)**

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



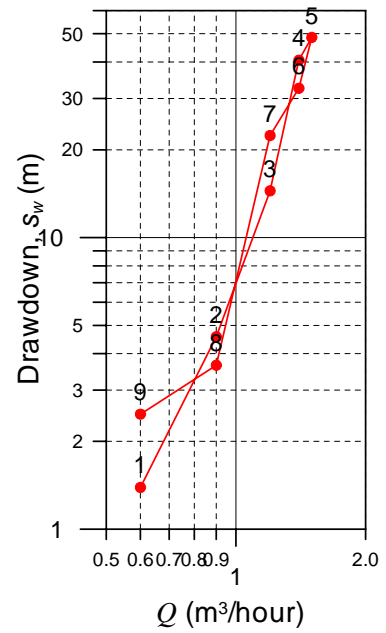
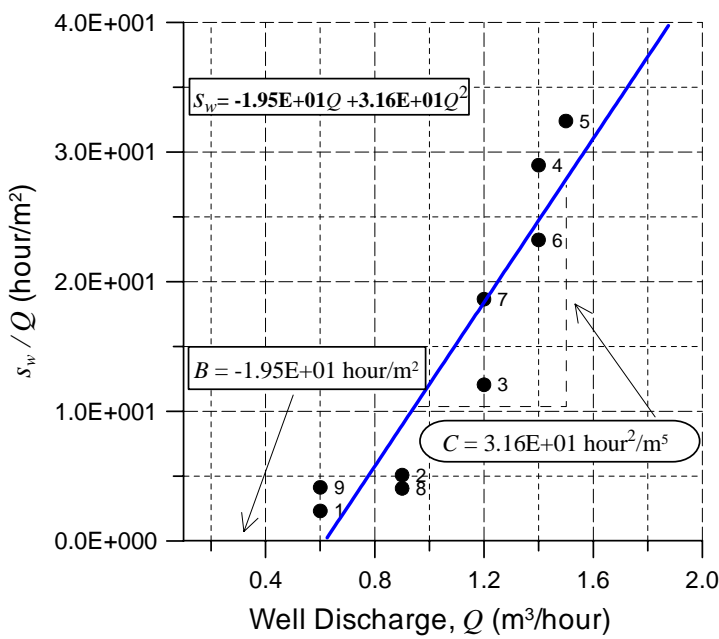
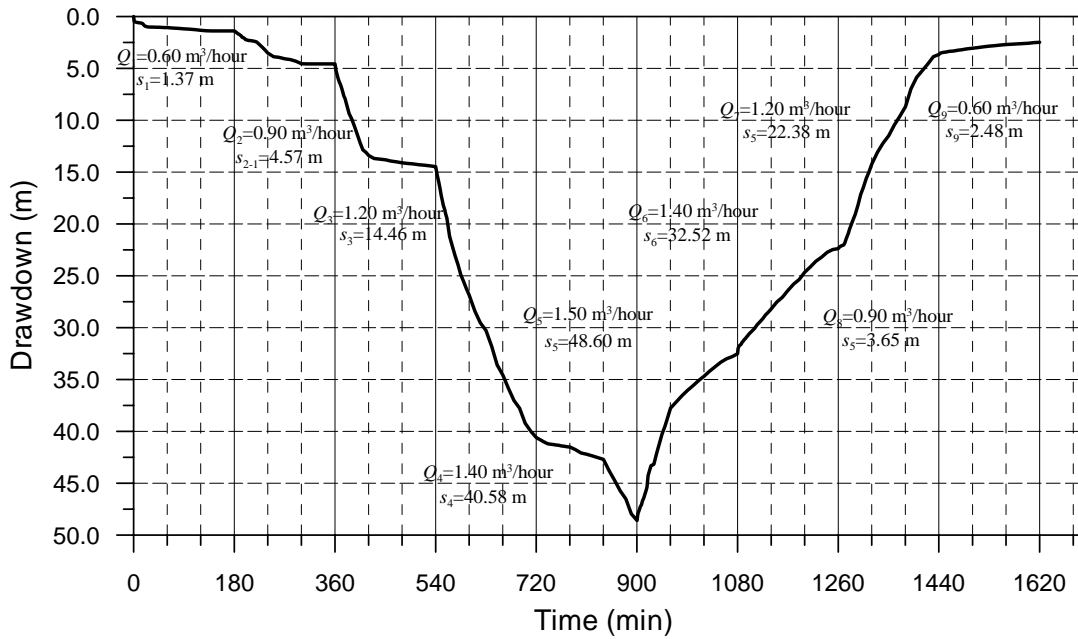
Drawdown in Pumped Well



Recovery in Pumped Well

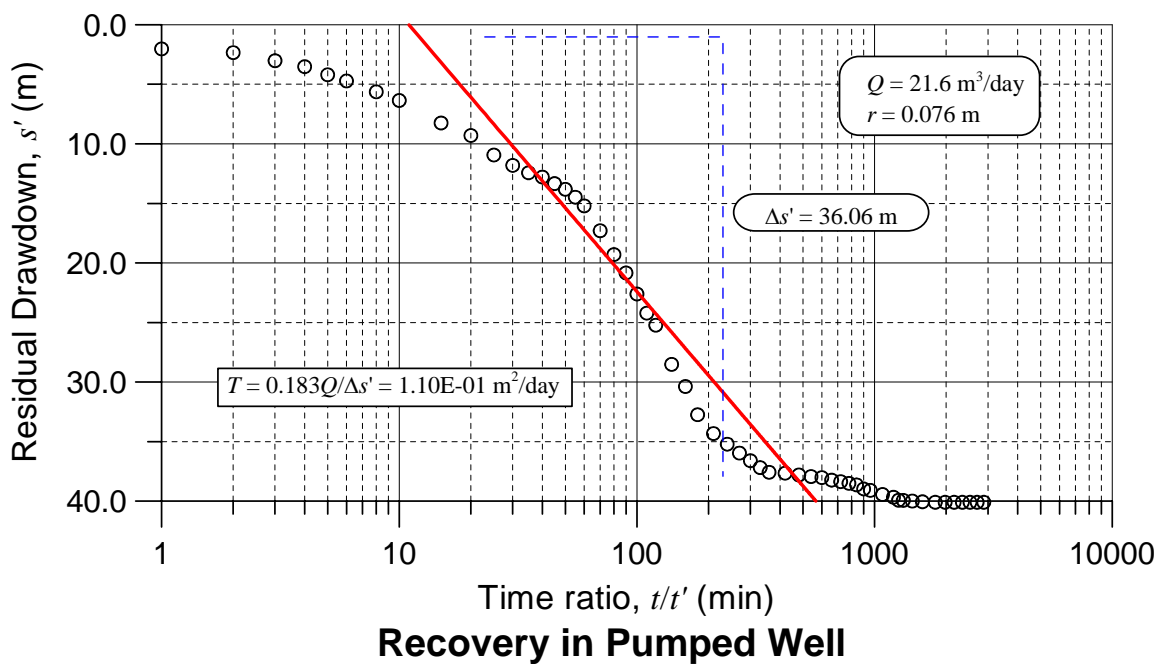
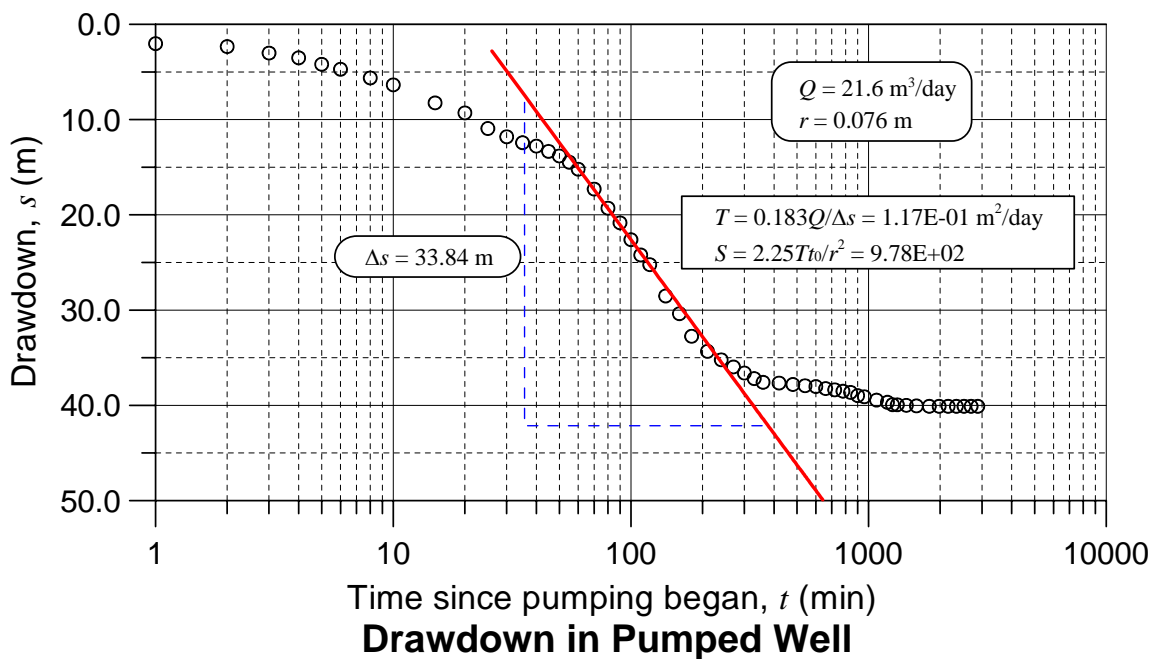
Location: Igekemaja, Magu District,
Mwanza Region
Site No.: Magu 37
Well No.: T4
Well Depth: 53.28 m
Well Diameter: 6"
Screen Depths: 35.52-41.44,
44.40-50.32 m
Screen Length: 11.84 m
SWL: GL- 5.28 m
on 02-10-2005

Figure	Results of Continuous Pumping Test and Recovery Test at T4 Test Well (IGEKEMAJA)
THE SUTUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



Location: Ikina, Geita District,
 Mwanza Region
 Site No.: Geita 27
 Well No.: T5
 Well Depth: 80.00 m
 Well Diameter: 6"
 Screen Depths: 62.24-71.12,
 74.08-77.04 m
 Screen Length: 11.84 m
 SWL: GL- 1.80 m
 on 15-10-2005

Figure	Results of Step-Drawdown Test at T5 Test Well (IKINA)
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



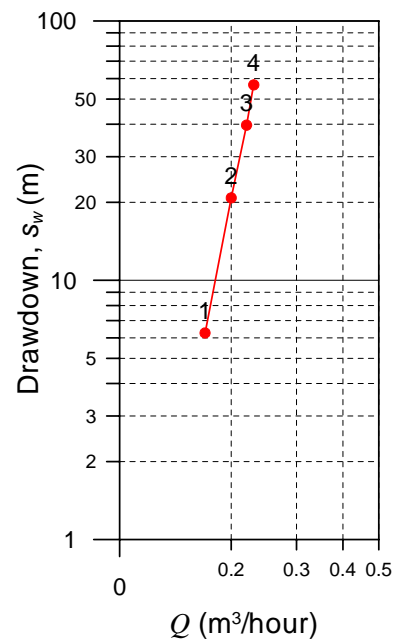
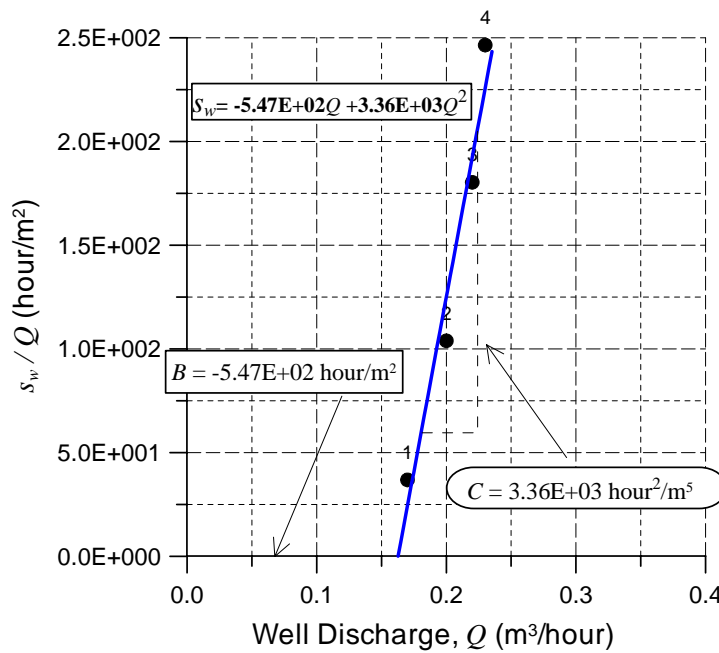
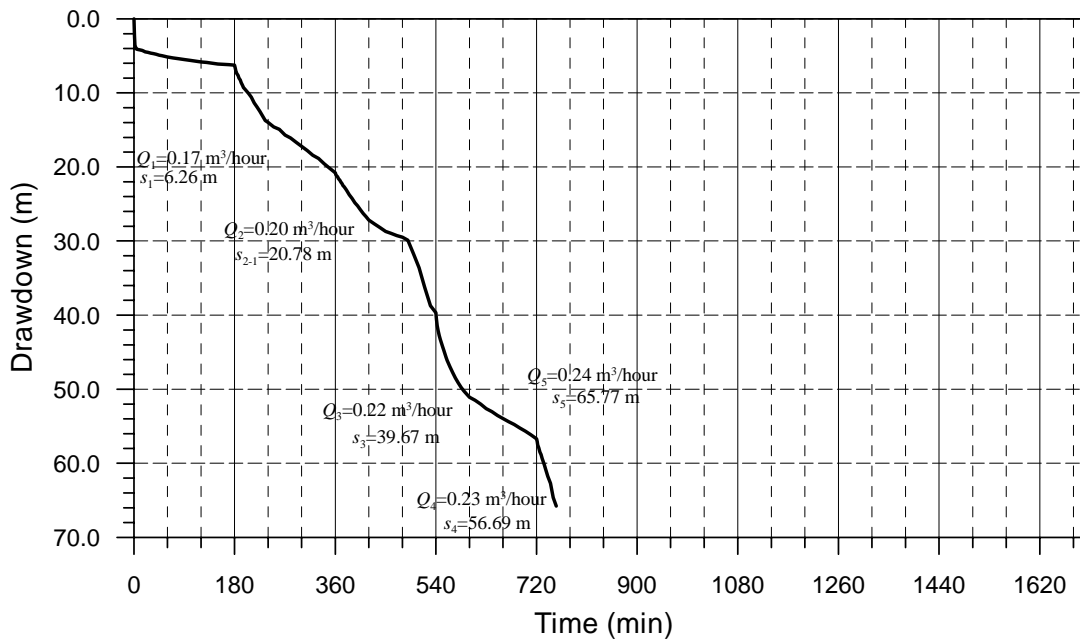
Location: Ikina, Geita District,
 Mwanza Region
 Site No.: Geita 27
 Well No.: T5
 Well Depth: 80.00 m
 Well Diameter: 6"
 Screen Depths: 62.24-71.12,
 74.08-77.04 m
 Screen Length: 11.84 m
 SWL: GL- 1.80 m
 on 15-10-2005

Figure

**Results of Continuous Pumping Test
and Recovery Test
at T5 Test Well (IKINA)**

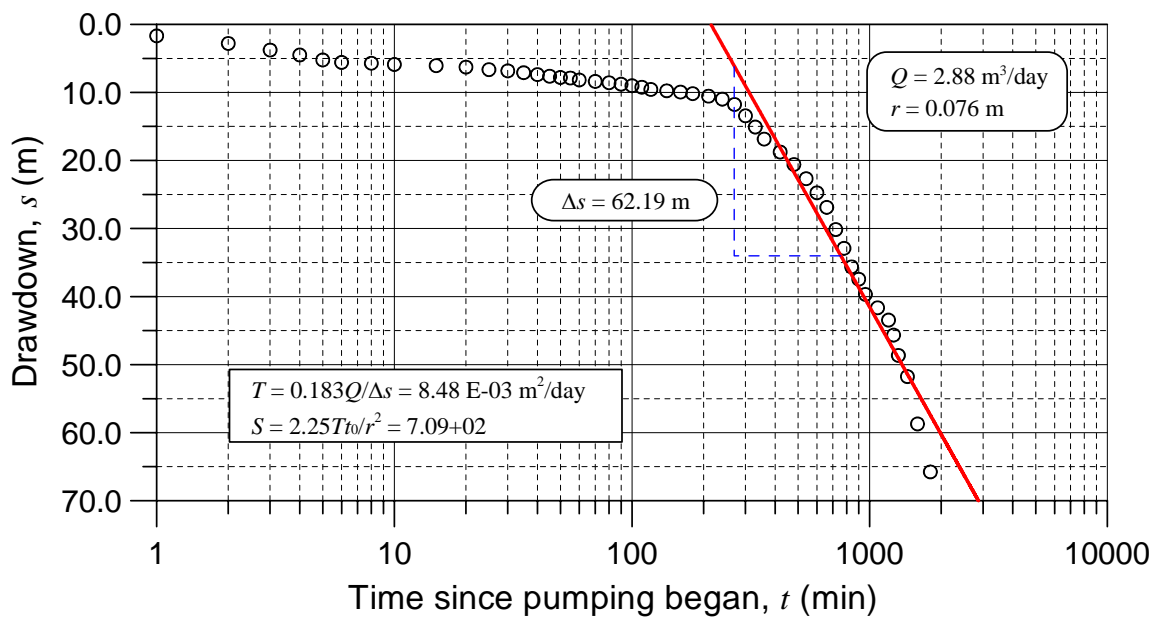
**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

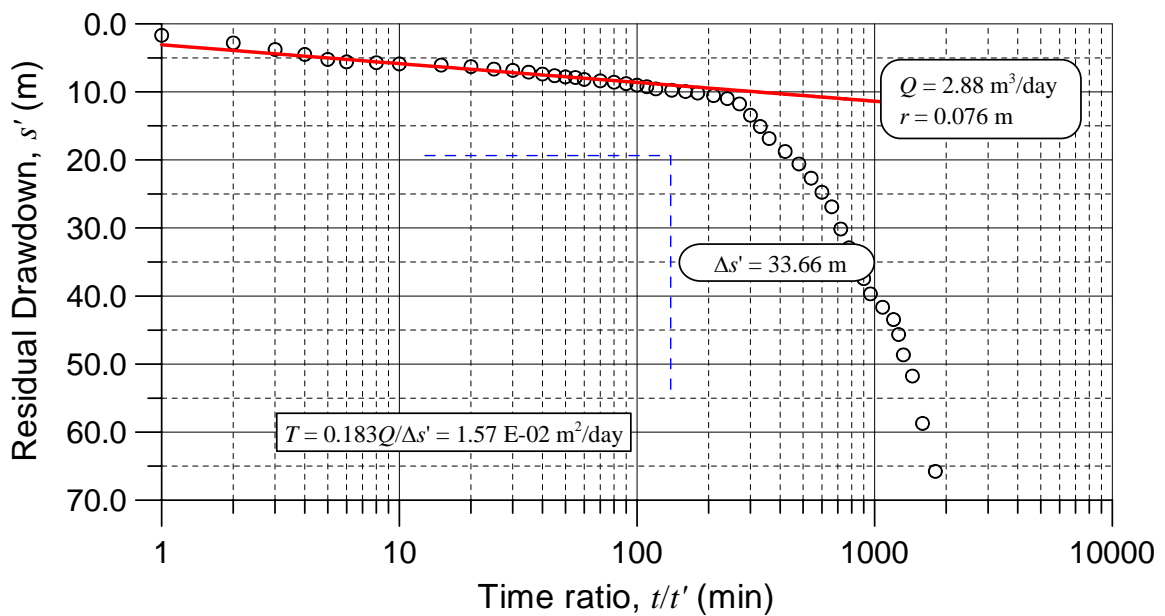


Location: Buhima, Ukerewe District,
Mwanza Region
Site No.: Ukerewe 73
Well No.: T6
Well Depth: 86.00 m
Well Diameter: 6"
Screen Depths: 77.12-83.04 m
Screen Length: 5.92 m
SWL: GL- 9.23 m
on 09-11-2005

Figure	Results of Step-Drawdown Test at T6 Test Well (BUHIMA)
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



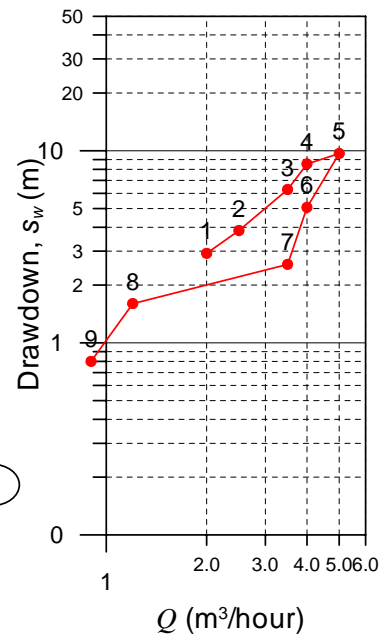
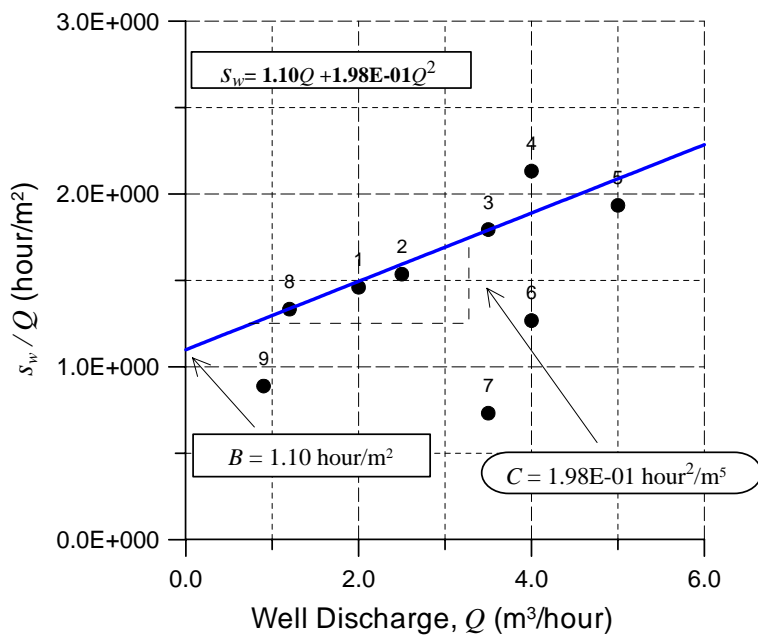
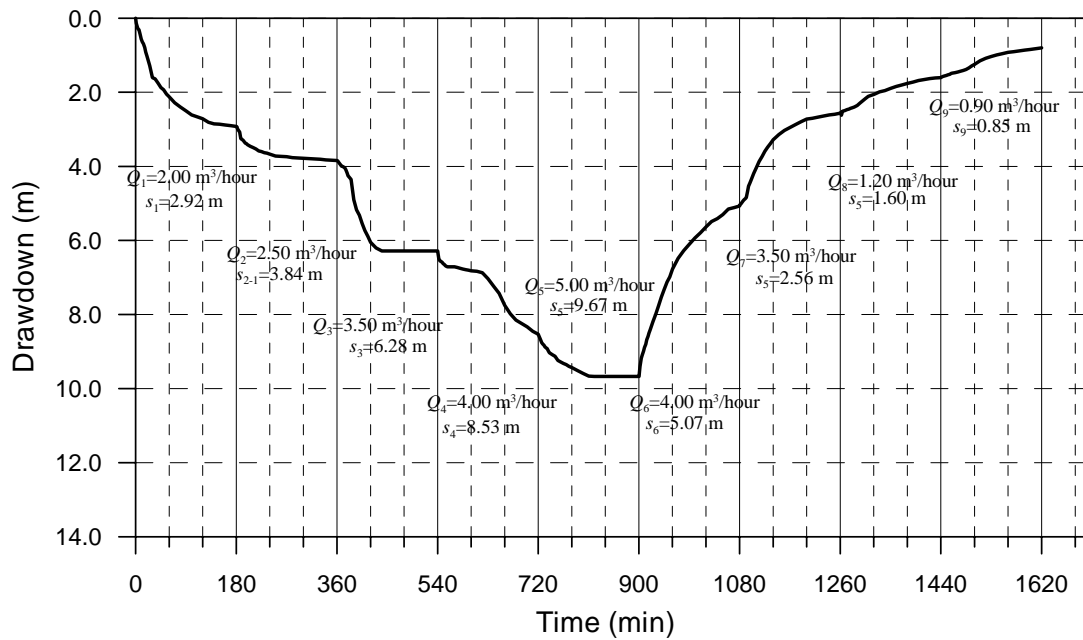
Drawdown in Pumped Well



Recovery in Pumped Well

Location: Buhima, Ukerewe District,
Mwanza Region
Site No.: Ukerewe 73
Well No.: T6
Well Depth: 86.00 m
Well Diameter: 6"
Screen Depths: 77.12-83.04 m
Screen Length: 5.92 m
SWL: GL- 9.23 m
on 10-11-2005

Figure	Results of Continuous Pumping Test and Recovery Test at T6 Test Well (BUHIMA)
THE SUTUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



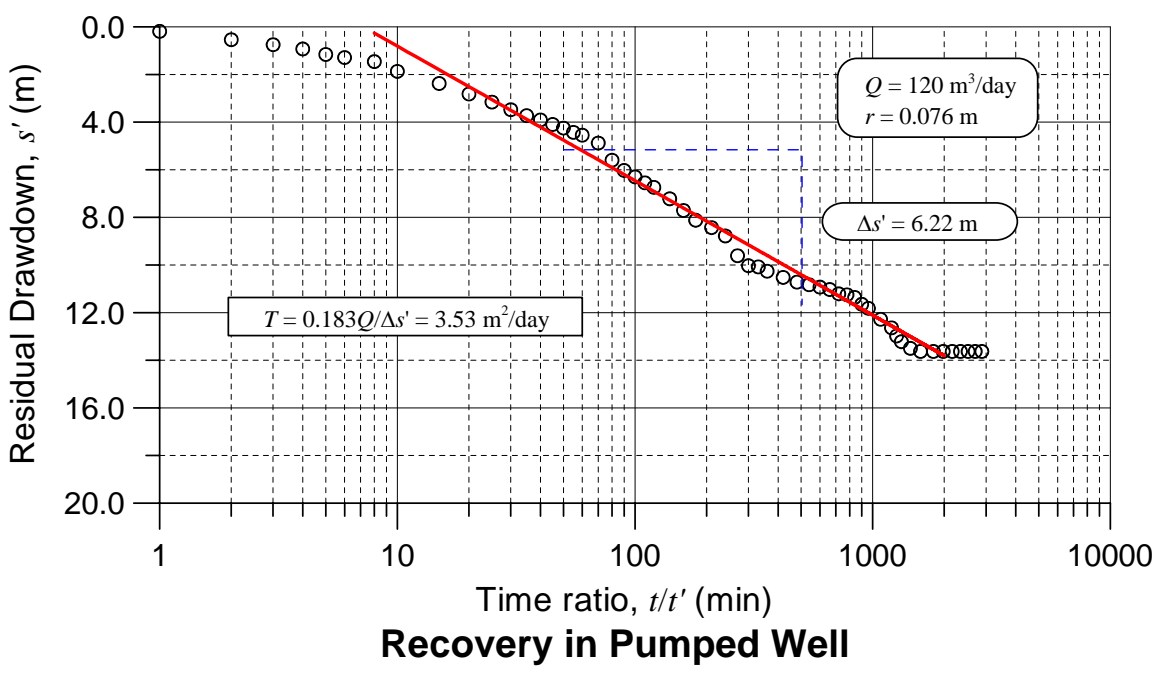
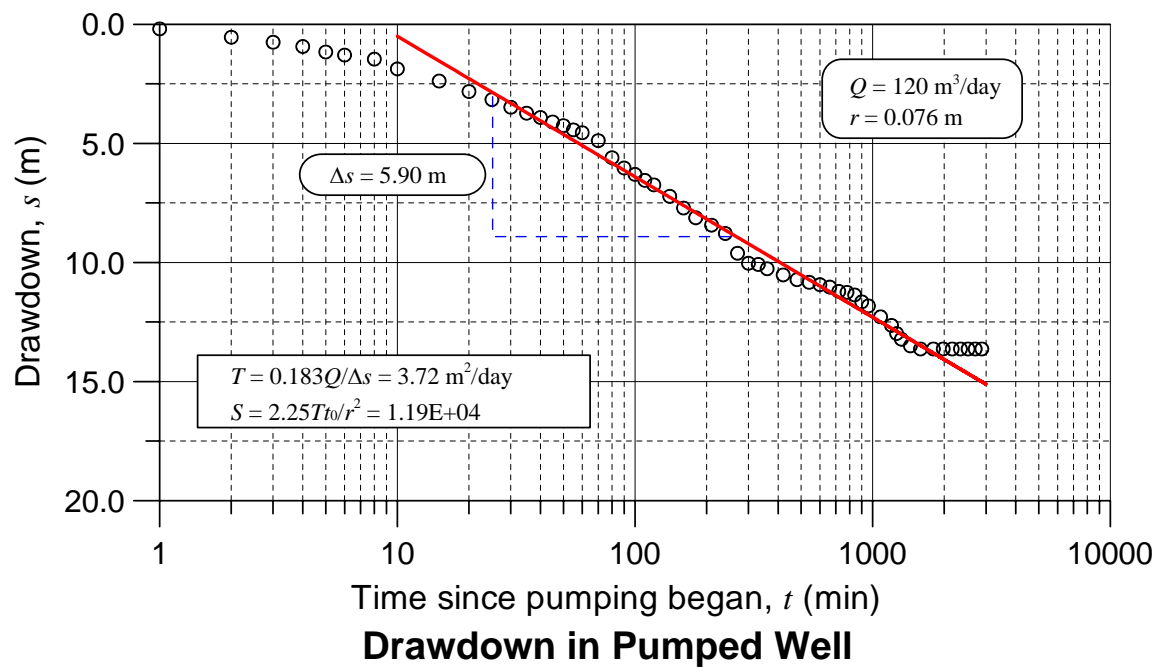
Location: Mcharo, Bunda District,
 Mara Region
 Site No.: Bunda 33
 Well No.: T7
 Well Depth: 27.00 m
 Well Diameter: 6"
 Screen Depths: 21.08-24.04m
 Screen Length: 2.96 m
 SWL: GL- 3.77 m
 on 10-10-2005

Figure

Results of Step-Drawdown Test at T7 Test Well (MCHARO)

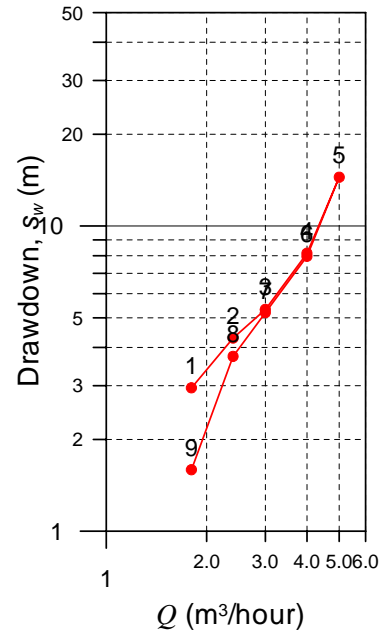
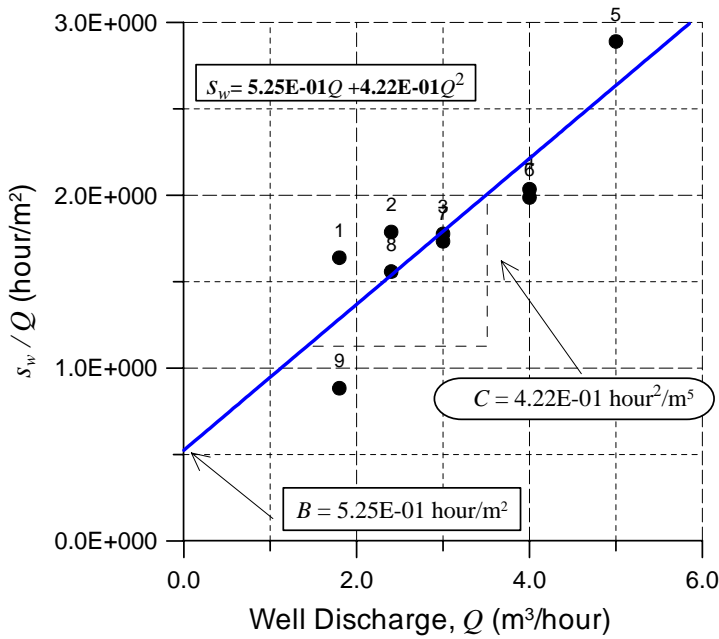
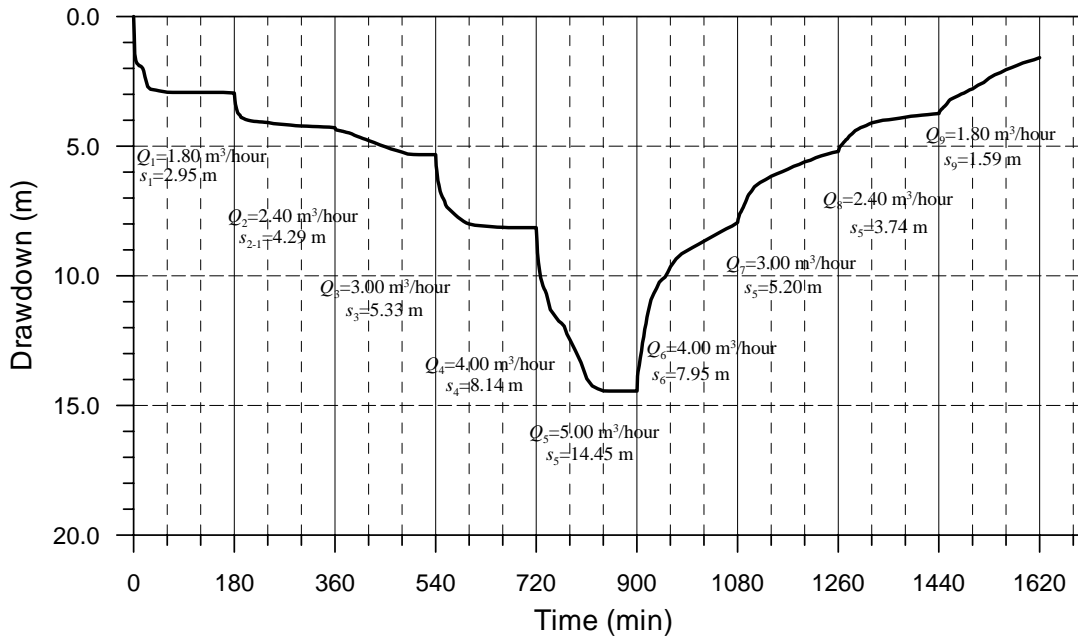
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



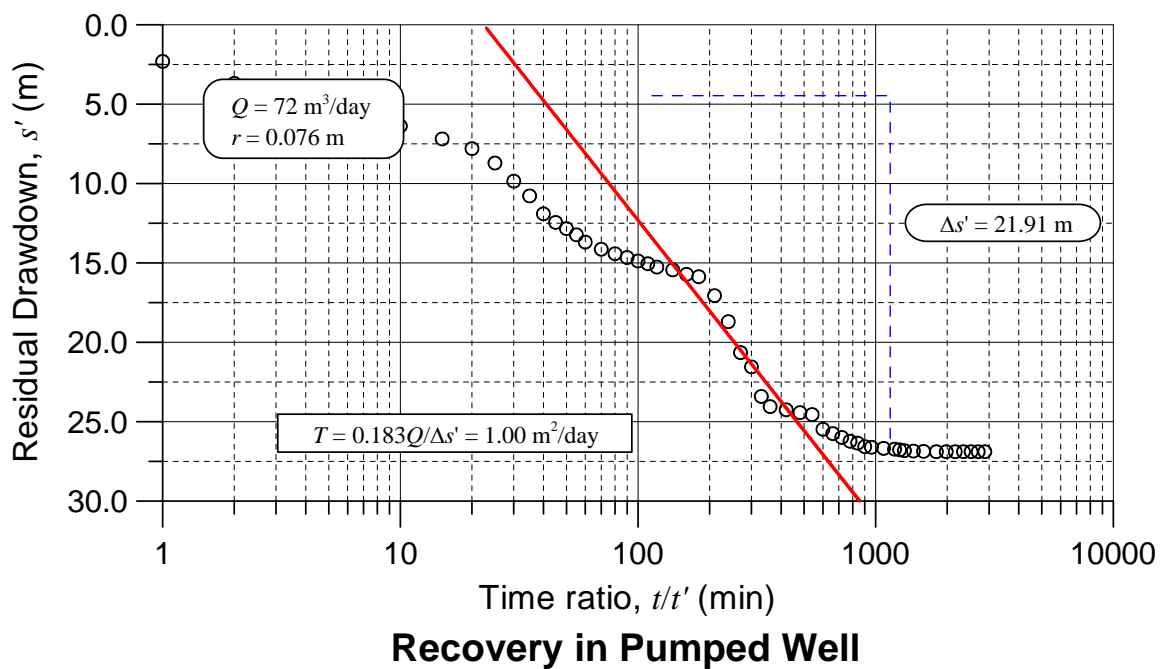
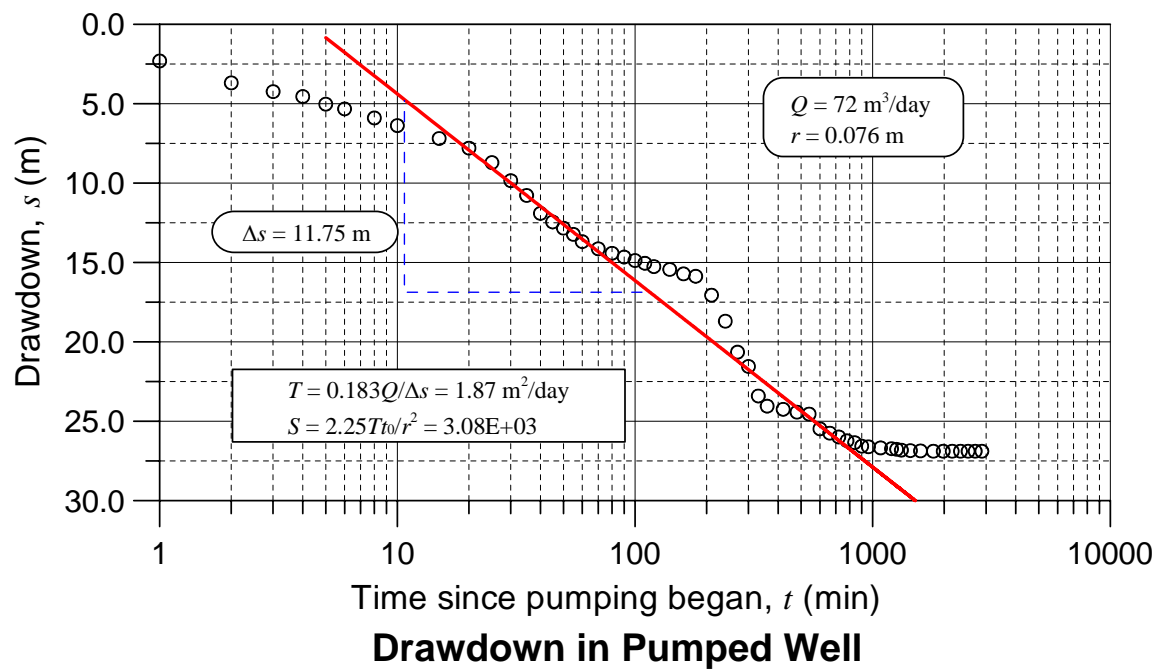
Location: Mcharo, Bunda District,
Mara Region
Site No.: Bunda 33
Well No.: T7
Well Depth: 27.00 m
Well Diameter: 6"
Screen Depths: 21.08-24.04m
Screen Length: 2.96 m
SWL: GL- 3.77 m
on 10-10-2005

Figure	Results of Continuous Pumping Test and Recovery Test at T7 Test Well (MCHARO)
THE SUTUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



Location: Saragana, Musoma District,
 Mara Region
 Site No.: Musoma 35
 Well No.: T8
 Well Depth: 80.00 m
 Well Diameter: 6"
 Screen Depths: 65.20-77.04 m
 Screen Length: 11.84 m
 SWL: GL- 9.00 m
 on 23-10-2005

Figure	Results of Step-Drawdown Test at T8 Test Well (SARAGANA)
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



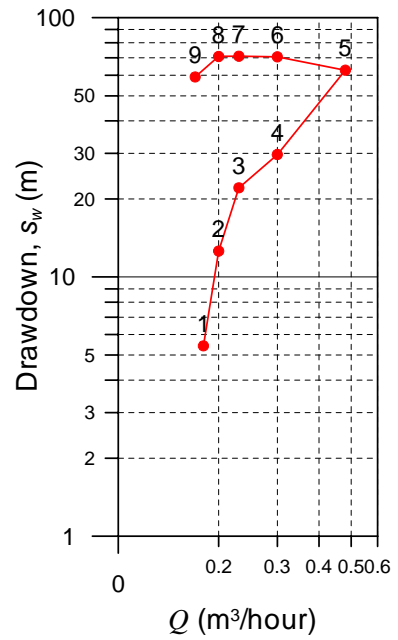
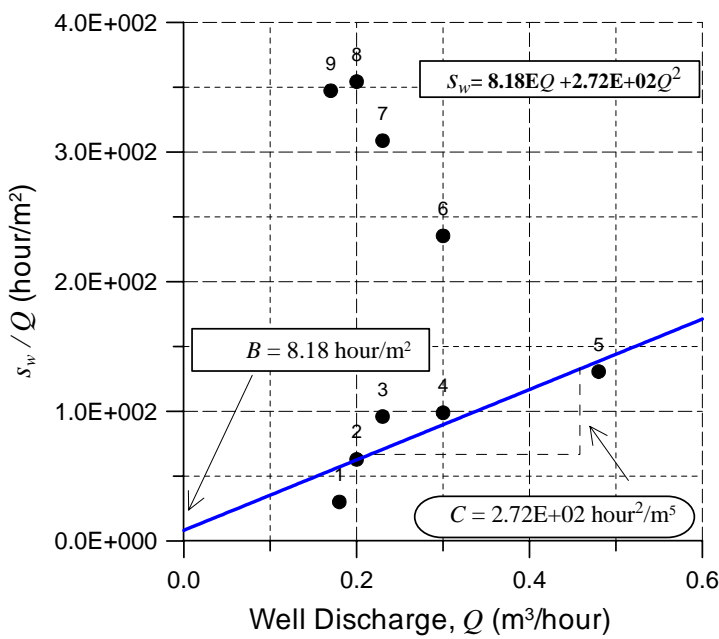
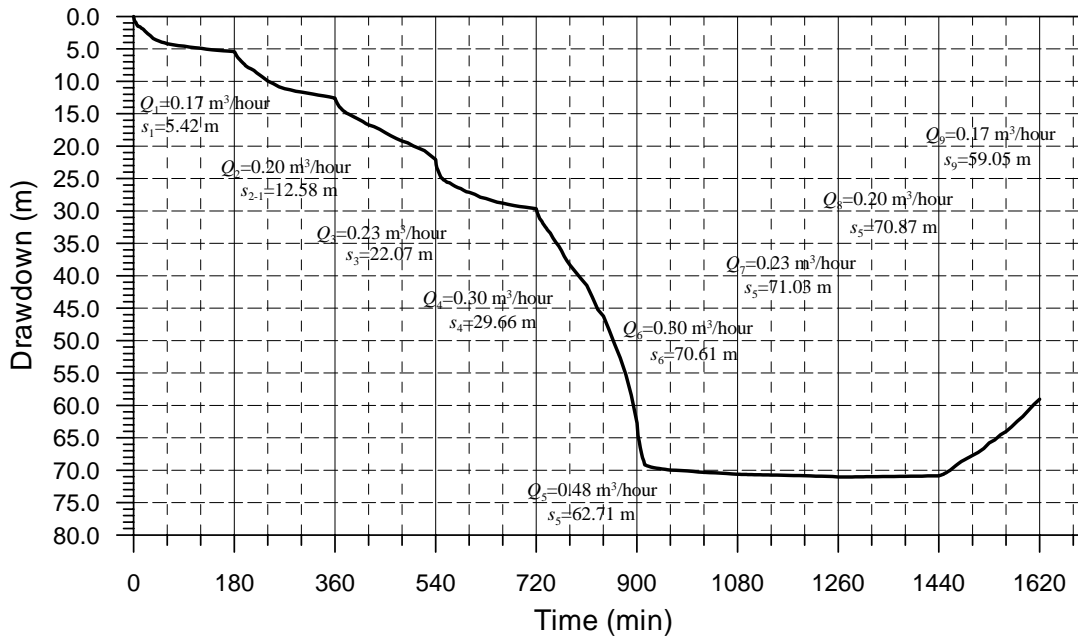
Location: Saragana, Musoma District,
Mara Region
Site No.: Musoma 35
Well No.: T8
Well Depth: 80.00 m
Well Diameter: 6"
Screen Depths: 65.20-77.04 m
Screen Length: 11.84 m
SWL: GL- 9.00 m
on 23-10-2005

Figure

**Results of Continuous Pumping Test
and Recovery Test
at T8 Test Well (SARAGANA)**

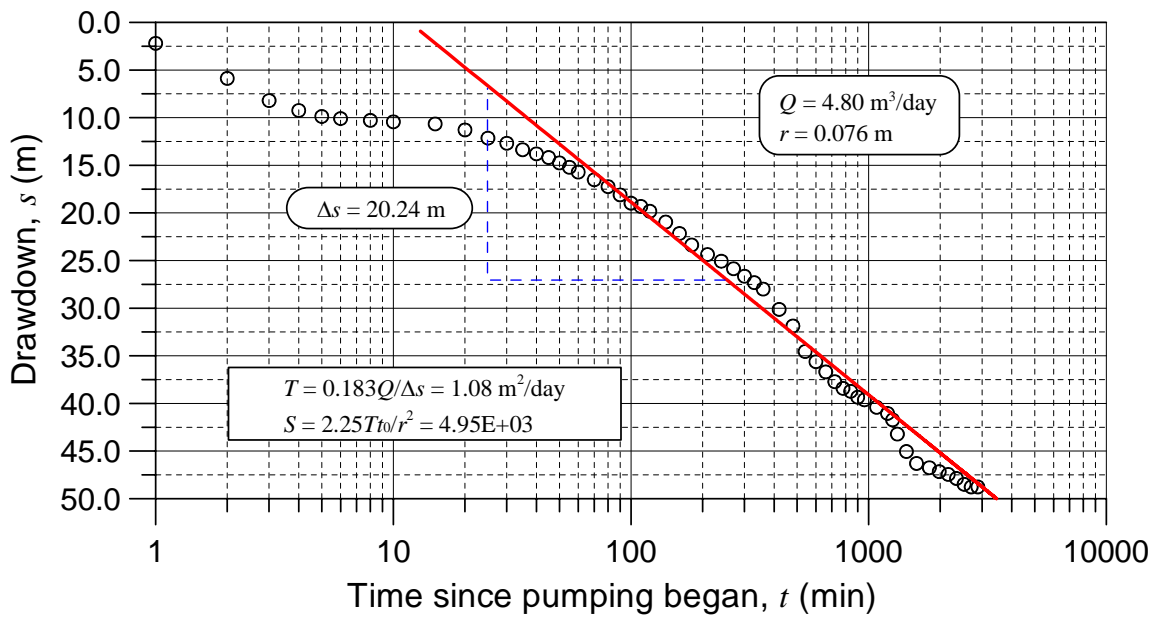
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS
IN THE UNITED REPUBLIC OF TANZANIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

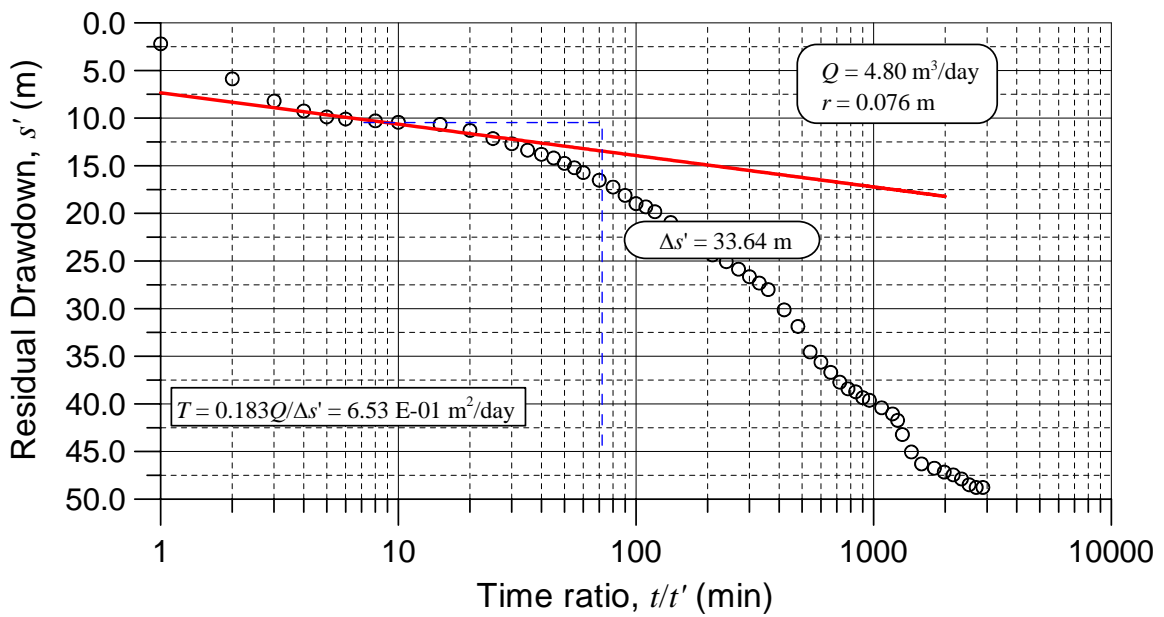


Location: Raranya, Tarime District,
 Mara Region
 Site No.: Tarime 133
 Well No.: T9
 Well Depth: 90.00 m
 Well Diameter: 6"
 Screen Depths: 81.12-87.04m
 Screen Length: 5.92 m
 SWL: GL- 12.58 m
 on 14-11-2005

Figure	Results of Step-Drawdown Test at T9 Test Well (RARANYA)
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



Drawdown in Pumped Well



Recovery in Pumped Well

Location: Raranya, Tarime District,
Mara Region
Site No.: Tarime 133
Well No.: T9
Well Depth: 90.00 m
Well Diameter: 6"
Screen Depths: 81.12-87.04m
Screen Length: 5.92 m
SWL: GL- 12.58 m
on 14-11-2005

Figure

**Results of Continuous Pumping Test
and Recovery Test
at T9 Test Well (RARANYA)**

THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS
IN THE UNITED REPUBLIC OF TANZANIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 29-30/Sep./2005

STEP No. : 1/9

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25

GPS Reading: 493339 E, 9653900 N

Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 27.44-30.26, 35.90-47.18 m

Static Groundwater Level: GL- 7.83 m Screen Length: 14.10 m

Pump Type: Submersible Pump

Pump Setting: 35.00 m, Discharge (Q): 6,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
29-Sep-05	15:51	0	0	7.83				
			1	10.09	2.26			
			2	10.24	2.41			
			4	10.24	2.41			
			6	10.36	2.53	103.0	8.58	27.5
			8	11.18	3.35			
			10	11.47	3.64			
			12	11.81	3.98			
			14	12.08	4.25			
			16	12.43	4.60			
			18	12.71	4.88			
			20	12.94	5.11			
			25	13.58	5.75			
			30	14.18	6.35			
			35	14.73	6.90			
			40	15.25	7.42			
			45	15.76	7.93			
			50	16.27	8.44			
			55	16.77	8.94			
	16:51	1	60	17.18	9.35			
			70	18.04	10.21			
			80	18.90	11.07			
			90	19.76	11.93			
			100	20.41	12.58			
			110	21.08	13.25			
	17:51	2	120	21.91	14.08			
			130	22.41	14.58			
			140	22.85	15.02			
			150	23.40	15.57			
			160	24.11	16.28			
			170	24.60	16.77			
	18:51	3	180	24.86	17.03			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 29-30/Sep./2005

STEP No. : 2/9

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25

GPS Reading: 493339 E, 9653900 N

Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 27.44-30.26, 35.90-47.18 m

Static Groundwater Level: GL- 7.83 m Screen Length: 14.10 m

Pump Type: Submersible Pump

Pump Setting: 35.00 m, Discharge (Q): 7,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
29-Sep-05	18:51	0	0	24.86	17.03			
			1	25.26	17.43			
			2	25.43	17.60			
			4	25.71	17.88			
			6	25.99	18.16			
			8	26.24	18.41			
			10	26.47	18.64			
			12	26.68	18.85			
			14	26.86	19.03			
			16	27.01	19.18			
			18	27.22	19.39			
			20	27.38	19.55			
			25	27.81	19.98			
			30	28.19	20.36			
			35	28.57	20.74			
			40	28.99	21.16			
			45	29.37	21.54			
			50	29.75	21.92			
			55	30.96	23.13			
	19:51	1	60	31.81	23.98			
			70	34.06	26.23			
			80	35.36	27.53			
			90	33.12	25.29	Discharge: 5,000 l/hour		
			100	31.69	23.86			
			110	31.08	23.25			
	20:51	2	120	30.99	23.16			
			130	30.96	23.13			
			140	30.66	22.83			
			150	30.44	22.61			
			160	30.26	22.43			
			170	30.06	22.23			
	21:51	3	180	29.81	21.98			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 29-30/Sep./2005

STEP No. : 3/9

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25

GPS Reading: 493339 E, 9653900 N

Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 27.44-30.26, 35.90-47.18 m

Static Groundwater Level: GL- 7.83 m Screen Length: 14.10 m

Pump Type: Submersible Pump

Pump Setting: 35.00 m, Discharge (Q): 4,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
29-Sep-05	21:51	0	0	29.81	21.98			
			1	29.78	21.95			
			2	29.60	21.77			
			4	29.56	21.73			
			6	29.55	21.72			
			8	29.51	21.68			
			10	29.47	21.64			
			12	29.40	21.57			
			14	29.35	21.52			
			16	29.32	21.49			
			18	29.27	21.44			
			20	29.22	21.39			
			25	29.14	21.31			
			30	29.06	21.23			
			35	29.01	21.18			
			40	28.96	21.13			
			45	28.87	21.04			
			50	28.84	21.01			
			55	28.80	20.97			
	22:51	1	60	28.75	20.92			
			70	28.70	20.87			
			80	28.66	20.83			
			90	28.64	20.81			
			100	28.61	20.78			
			110	28.61	20.78			
	23:51	2	120	28.61	20.78			
			130	28.61	20.78			
			140	28.61	20.78			
			150	28.61	20.78			
			160	28.61	20.78			
			170	28.61	20.78			
30-Sep-05	0:51	3	180	28.61	20.78			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 29-30/Sep./2005

STEP No. : 4/9

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25

GPS Reading: 493339 E, 9653900 N

Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 27.44-30.26, 35.90-47.18 m

Static Groundwater Level: GL- 7.83 m Screen Length: 14.10 m

Pump Type: Submersible Pump

Pump Setting: 35.00 m, Discharge (Q): 4,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
30-Sep-05	0:51	0	0	28.61	20.78			
			1	28.41	20.58			
			2	28.36	20.53			
			4	28.24	20.41			
			6	28.14	20.31			
			8	28.01	20.18			
			10	27.92	20.09			
			12	27.84	20.01			
			14	27.76	19.93			
			16	27.68	19.85			
			18	27.60	19.77			
			20	27.55	19.72			
			25	27.41	19.58			
			30	27.26	19.43			
			35	27.13	19.30			
			40	27.00	19.17			
			45	26.89	19.06			
			50	26.78	18.95			
			55	26.72	18.89			
	1:51	1	60	26.61	18.78			
			70	26.51	18.68			
			80	26.44	18.61			
			90	26.34	18.51			
			100	26.26	18.43			
			110	26.24	18.41			
	2:51	2	120	26.14	18.31			
			130	26.01	18.18			
			140	25.79	17.96			
			150	25.63	17.80			
			160	25.50	17.67			
			170	25.37	17.54			
	3:51	3	180	25.30	17.47			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 29-30/Sep./2005

STEP No. : 5/9

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25

GPS Reading: 493339 E, 9653900 N

Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 27.44-30.26, 35.90-47.18 m

Static Groundwater Level: GL- 7.83 m Screen Length: 14.10 m

Pump Type: Submersible Pump

Pump Setting: 35.00 m, Discharge (Q): 3,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
30-Sep-05	3:51	0	0	25.30	17.47			
			1	25.28	17.45			
			2	25.26	17.43			
			4	25.24	17.41			
			6	25.22	17.39			
			8	25.20	17.37			
			10	25.18	17.35			
			12	25.16	17.33			
			14	25.15	17.32			
			16	25.12	17.29			
			18	25.09	17.26			
			20	25.05	17.22			
			25	25.01	17.18			
			30	24.88	17.05			
			35	24.81	16.98			
			40	24.76	16.93			
			45	24.71	16.88			
			50	24.62	16.79			
			55	24.56	16.73			
	4:51	1	60	24.51	16.68			
			70	24.42	16.59			
			80	24.31	16.48			
			90	24.20	16.37			
			100	24.12	16.29			
			110	23.99	16.16			
	5:51	2	120	23.91	16.08			
			130	23.81	15.98			
			140	23.73	15.90			
			150	23.67	15.84			
			160	23.61	15.78			
			170	23.52	15.69			
	6:51	3	180	23.46	15.63			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 29-30/Sep./2005

STEP No. : 6/9

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25

GPS Reading: 493339 E, 9653900 N

Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 27.44-30.26, 35.90-47.18 m

Static Groundwater Level: GL- 7.83 m Screen Length: 14.10 m

Pump Type: Submersible Pump

Pump Setting: 35.00 m, Discharge (Q): 3,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
30-Sep-05	6:51	0	0	23.46	15.63			
			1	23.45	15.62			
			2	23.44	15.61			
			4	23.42	15.59			
			6	23.41	15.58			
			8	23.40	15.57			
			10	23.39	15.56			
			12	23.38	15.55			
			14	23.37	15.54			
			16	23.35	15.52			
			18	23.33	15.50			
			20	23.32	15.49			
			25	23.29	15.46			
			30	23.26	15.43			
			35	23.23	15.40			
			40	23.21	15.38			
			45	23.19	15.36			
			50	23.17	15.34			
			55	23.14	15.31			
	7:51	1	60	23.11	15.28			
			70	23.06	15.23			
			80	23.01	15.18			
			90	22.96	15.13			
			100	22.91	15.08			
			110	22.87	15.04			
	8:51	2	120	22.82	14.99			
			130	22.77	14.94			
			140	22.73	14.90			
			150	22.68	14.85			
			160	22.64	14.81			
			170	22.60	14.77			
	9:51	3	180	22.56	14.73			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 29-30/Sep./2005

STEP No. : 7/9

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25

GPS Reading: 493339 E, 9653900 N

Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 27.44-30.26, 35.90-47.18 m

Static Groundwater Level: GL- 7.83 m Screen Length: 14.10 m

Pump Type: Submersible Pump

Pump Setting: 35.00 m, Discharge (Q): 2,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
30-Sep-05	9:51	0	0	22.56	14.73			
			1	22.52	14.69			
			2	22.47	14.64			
			4	22.45	14.62			
			6	22.38	14.55			
			8	22.34	14.51			
			10	22.30	14.47			
			12	22.26	14.43			
			14	22.22	14.39			
			16	22.17	14.34			
			18	22.12	14.29			
			20	22.06	14.23			
			25	22.02	14.19			
			30	21.97	14.14			
			35	Water level meter is brake down.				
			40					
			45					
			50					
			55					
		1	60					
			70					
			80					
			90					
			100					
			110					
		2	120					
			130					
			140					
			150					
			160					
			170					
		3	180					

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T1) DATA SHEET No. : 1/2**

Date: 30/Sep.-01/Oct./2005

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25
 GPS Reading: 493339 E, 9653900 N
 Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 27.44-30.26, 35.90-47.18 m
 Static Groundwater Level: GL- 8.77 m Screen Length: 14.10 m
 Pump Type: Submersible Pump
 Pump Setting: 35.00 m, Discharge (Q): 3,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
30-Sep-05	18:00		0	8.77	0			
			1	10.75	1.98			
			2	12.59	3.82			
			3	14.14	5.37			
			4	14.96	6.19			
			5	15.17	6.40			
			6	15.21	6.44			
			8	15.29	6.52			
			10	15.35	6.58			
			15	15.44	6.67			
			20	15.56	6.79			
			25	15.66	6.89			
			30	16.27	7.50			
			35	16.69	7.92			
			40	17.00	8.23			
			45	17.31	8.54			
			50	17.53	8.76			
			55	17.71	8.94			
	19:00	1	60	17.93	9.16			
			70	18.32	9.55			
			80	18.69	9.92			
			90	19.08	10.31			
			100	19.40	10.63			
			110	19.68	10.91			
	20:00	2	120	19.97	11.20			
			140	20.09	11.32			
			160	20.98	12.21			
	21:00	3	180	21.41	12.64			
			210	22.06	13.29			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T1) DATA SHEET No. : 2/2**

Date: 30/Sep.-01/Oct./2005

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25
 GPS Reading: 493339 E, 9653900 N
 Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 27.44-30.26, 35.90-47.18 m
 Static Groundwater Level: GL- 8.77 m Screen Length: 14.10 m
 Pump Type: Submersible Pump
 Pump Setting: 35.00 m, Discharge (Q): 3,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	22:00	4	240	22.47	13.70			
			270	22.98	14.21			
	23:00	5	300	23.41	14.64			
			330	23.87	15.10			
1-Oct-05	0:00	6	360	24.18	15.41			
	1:00	7	420	24.83	16.06			
	2:00	8	480	25.32	16.55			
	3:00	9	540	25.93	17.16			
	4:00	10	600	26.36	17.59			
	5:00	11	660	26.82	18.05			
	6:00	12	720	27.31	18.54			
	7:00	13	780	27.76	18.99			
	8:00	14	840	28.16	19.39			
	9:00	15	900	28.42	19.65			
	10:00	16	960	28.60	19.83			
	11:00	18	1080	29.28	20.51			
	12:00	20	1200	29.73	20.96			
	13:00	21	1260	30.58	21.81			
	14:00	22	1320	31.78	23.01			
	16:00	24	1440	34.25	25.48	96.5	8.50	
	18:30		1590	34.81	26.04	Stop		
		30	1800					
		33	1980					
		36	2160					
		39	2340					
		42	2520					
		45	2700					
		48	2880					

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**RECOVERY TEST DATA SHEET
PUMPED WELL (T1) DATA SHEET No. : 1/2**

Date: 01-02/Oct./2005

Location: Busongo Village, Misungwi District, Mwanza Region Site No.: Misungwi25
 GPS Reading: 493339 E, 9653900 N
 Well No.: T1 Well Depth: 50.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 27.44-30.26, 35.90-47.18 m
 Static Groundwater Level: GL- 8.77 m Screen Length: 14.10 m
 Pump Type: Submersible Pump
 Pump Setting: 35.00 m, Discharge (Q): 3,500 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s] (m)
		(hour)	(min)				
1-Oct-05	18:30		0	1590		34.81	26.04
			1	1591	1591.000	31.08	22.31
			2	1592	796.000	29.47	20.70
			4	1594	398.500	29.36	20.59
			6	1596	266.000	29.19	20.42
			8	1598	199.750	29.04	20.27
			10	1600	160.000	28.91	20.14
			12	1602	133.500	28.78	20.01
			14	1604	114.571	28.66	19.89
			16	1606	100.375	28.50	19.73
			18	1608	89.333	28.36	19.59
			20	1610	80.500	28.24	19.47
			25	1615	64.600	27.94	19.17
			30	1620	54.000	27.67	18.90
			35	1625	46.429	27.48	18.71
			40	1630	40.750	27.25	18.48
			45	1635	36.333	27.04	18.27
			50	1640	32.800	26.90	18.13
	19:30	1	60	1650	27.500	26.56	17.79
			70	1660	23.714	26.37	17.60
			80	1670	20.875	25.96	17.19
			90	1680	18.667	25.78	17.01
			100	1690	16.900	25.59	16.82
			110	1700	15.455	25.30	16.53
	20:30	2	120	1710	14.250	24.99	16.22
			150	1740	11.600	24.10	15.33
	21:30	3	180	1770	9.833	23.26	14.49
			210	1800	8.571	22.50	13.73
	22:30	4	240	1830	7.625	21.36	12.59
			270	1860	6.889	21.16	12.39
	23:30	5	300	1890	6.300	20.66	11.89
			330	1920	5.818	20.14	11.37
2-Oct-05	0:30	6	360	1950	5.417	19.66	10.89
			390	1980	5.077	19.21	10.44
	1:30	7	420	2010	4.786	18.79	10.02
			450	2040	4.533	18.12	9.35
	2:30	8	480	2070	4.313	17.93	9.16
	3:30	9	540	2130	3.944	17.74	8.97
	4:30	10	600	2190	3.650	16.70	7.93
	5:30	11	660	2250	3.409	16.33	7.56
	6:30	12	720	2310	3.208	15.87	7.10

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 19-20/Oct./2005

STEP No. : 1/9

Location: Busekeseke Village, Sengerema District, Mwanza Region Site No.: Sengerema 83

GPS Reading: 423083 E, 9713761 N

Well No.: T2 Well Depth: 72.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 63.12-69.04 m

Static Groundwater Level: GL- 1.00 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 480 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
19-Oct-05	13:30	0	0	1.00				
			1	2.44	1.44			
			2	5.08	4.08			
			4	6.00	5.00			
			6	6.86	5.86			
			8	7.74	6.74			
			10	8.32	7.32			
			12	8.98	7.98			
			14	9.30	8.30			
			16	9.77	8.77			
			18	9.97	8.97			
			20	10.30	9.30			
			25	10.96	9.96			
			30	11.51	10.51			
			35	12.11	11.11			
			40	12.49	11.49			
			45	12.88	11.88			
			50	13.15	12.15			
			55	13.45	12.45			
	14:30	1	60	13.71	12.71			
			70	14.47	13.47			
			80	15.55	14.55			
			90	15.93	14.93			
			100	16.15	15.15			
			110	16.30	15.30			
	15:30	2	120	16.30	15.30			
			130	16.30	15.30			
			140	16.30	15.30			
			150	16.30	15.30			
			160	16.30	15.30			
			170	16.30	15.30			
	16:30	3	180	16.30	15.30			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 19-20/Oct./2005

STEP No. : 2/9

Location: Busekeseke Village, Sengerema District, Mwanza Region Site No.: Sengerema 83

GPS Reading: 423083 E, 9713761 N

Well No.: T2 Well Depth: 72.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 63.12-69.04 m

Static Groundwater Level: GL- 1.00 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 600 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
19-Oct-05	16:30	0	0	16.30	15.30			
			1	16.37	15.37			
			2	16.44	15.44			
			4	17.01	16.01			
			6	17.36	16.36			
			8	17.63	16.63			
			10	17.91	16.91			
			12	18.19	17.19			
			14	18.38	17.38			
			16	18.59	17.59			
			18	18.78	17.78			
			20	19.05	18.05			
			25	19.40	18.40			
			30	19.76	18.76			
			35	20.14	19.14			
			40	20.47	19.47			
			45	20.80	19.80			
			50	21.26	20.26			
			55	21.44	20.44			
	17:30	1	60	22.04	21.04			
			70	23.55	22.55			
			80	24.57	23.57			
			90	25.35	24.35			
			100	26.16	25.16			
			110	26.85	25.85			
	18:30	2	120	27.54	26.54			
			130	28.24	27.24			
			140	28.88	27.88			
			150	29.45	28.45			
			160	29.82	28.82			
			170	30.29	29.29			
	19:30	3	180	30.75	29.75			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 19-20/Oct./2005

STEP No. : 3/9

Location: Busekeseke Village, Sengerema District, Mwanza Region Site No.: Sengerema 83

GPS Reading: 423083 E, 9713761 N

Well No.: T2 Well Depth: 72.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 63.12-69.04 m

Static Groundwater Level: GL- 1.00 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 700 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
19-Oct-05	19:30	0	0	30.75	29.75			
			1	31.43	30.43			
			2	32.02	31.02			
			4	32.53	31.53			
			6	33.06	32.06			
			8	33.37	32.37			
			10	33.56	32.56			
			12	33.91	32.91			
			14	34.20	33.20			
			16	34.30	33.30			
			18	34.42	33.42			
			20	34.65	33.65			
			25	35.07	34.07			
			30	35.30	34.30			
			35	35.37	34.37			
			40	35.43	34.43			
			45	35.48	34.48			
			50	35.50	34.50			
			55	35.53	34.53			
	20:30	1	60	35.55	34.55			
			70	35.93	34.93			
			80	36.00	35.00			
			90	36.08	35.08			
			100	36.17	35.17			
			110	36.36	35.36			
	21:30	2	120	36.52	35.52			
			130	36.75	35.75			
			140	37.00	36.00			
			150	37.15	36.15			
			160	37.29	36.29			
			170	38.38	37.38			
	22:30	3	180	38.53	37.53			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 19-20/Oct./2005

STEP No. : 4/9

Location: Busekeseke Village, Sengerema District, Mwanza Region Site No.: Sengerema 83

GPS Reading: 423083 E, 9713761 N

Well No.: T2 Well Depth: 72.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 63.12-69.04 m

Static Groundwater Level: GL- 1.00 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 800 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
19-Oct-05	22:30	0	0	38.53	37.53			
			1	38.00	37.00			
			2	38.34	37.34			
			4	38.86	37.86			
			6	39.37	38.37			
			8	39.89	38.89			
			10	40.35	39.35			
			12	40.83	39.83			
			14	41.33	40.33			
			16	41.58	40.58			
			18	41.95	40.95			
			20	42.31	41.31			
			25	43.35	42.35			
			30	43.70	42.70			
			35	44.06	43.06			
			40	44.47	43.47			
			45	44.76	43.76			
			50	44.96	43.96			
			55	45.25	44.25			
	23:30	1	60	45.47	44.47			
			70	45.86	44.86			
			80	46.13	45.13			
			90	46.27	45.27			
			100	46.37	45.37			
			110	46.60	45.60			
20-Oct-05	0:30	2	120	46.97	45.97			
			130	47.25	46.25			
			140	47.42	46.42			
			150	47.67	46.67			
			160	47.90	46.90			
			170	47.95	46.95			
	1:30	3	180	48.00	47.00			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 19-20/Oct./2005

STEP No. : 5/9

Location: Busekeseke Village, Sengerema District, Mwanza Region Site No.: Sengerema 83

GPS Reading: 423083 E, 9713761 N

Well No.: T2 Well Depth: 72.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 63.12-69.04 m

Static Groundwater Level: GL- 1.00 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 900 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
20-Oct-05	1:30	0	0	48.00	47.00			
			1	48.24	47.24			
			2	48.55	47.55			
			4	49.31	48.31			
			6	49.77	48.77			
			8	50.25	49.25			
			10	50.75	49.75			
			12	51.22	50.22			
			14	51.77	50.77			
			16	52.00	51.00			
			18	52.47	51.47			
			20	53.41	52.41			
			25	54.50	53.50			
			30	55.25	54.25			
			35	56.21	55.21			
			40	56.82	55.82			
			45	57.50	56.50			
			50	57.75	56.75			
			55	57.94	56.94			
	2:30	1	60	59.00	58.00	Stop		
			70					
			80					
			90					
			100					
			110					
		2	120					
			130					
			140					
			150					
			160					
			170					
		3	180					

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T2) DATA SHEET No. : 1/2

Date: 20-21/Oct./2005

Location: Busekeseke Village, Sengerema District, Mwanza Region Site No.: Sengerema 83
 GPS Reading: 423083 E, 9713761 N
 Well No.: T2 Well Depth: 72.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 63.12-69.04 m
 Static Groundwater Level: GL- 1.00 m Screen Length: 5.92 m
 Pump Type: Submersible Pump
 Pump Setting: 60.00 m, Discharge (Q): 480 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
20-Oct-05	14:43		0	1.00	0			
			1	4.25	3.25			
			2	5.95	4.95			
			3	6.84	5.84			
			4	7.33	6.33			
			5	8.17	7.17			
			6	8.64	7.64			
			8	9.58	8.58			
			10	10.44	9.44			
			15	12.21	11.21			
			20	13.15	12.15			
			25	14.23	13.23			
			30	15.08	14.08			
			35	15.88	14.88			
			40	16.49	15.49			
			45	17.02	16.02			
			50	17.49	16.49			
			55	17.93	16.93			
	15:43	1	60	18.30	17.30			
			70	18.93	17.93			
			80	19.58	18.58			
			90	20.14	19.14			
			100	20.64	19.64			
			110	21.08	20.08			
	16:43	2	120	21.44	20.44			
			140	22.18	21.18			
			160	22.80	21.80			
	17:43	3	180	23.37	22.37			
			210	24.12	23.12			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T2) DATA SHEET No. : 2/2**

Date: 20-21/Oct./2005

Location: Busekeseke Village, Sengerema District, Mwanza Region Site No.: Sengerema 83

GPS Reading: 423083 E, 9713761 N

Well No.: T2 Well Depth: 72.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 63.12-69.04 m

Static Groundwater Level: GL- 1.80 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 480 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	18:43	4	240	24.66	22.86			
			270	25.15	23.35			
	19:43	5	300	25.60	23.80			
			330	26.22	24.42			
	20:43	6	360	27.16	25.36			
	21:43	7	420	28.31	26.51			
	22:43	8	480	29.46	27.66			
	23:43	9	540	30.64	28.84			
21-Oct-05	0:43	10	600	31.77	29.97			
	1:43	11	660	32.90	31.10			
	2:43	12	720	34.32	32.52			
	3:43	13	780	36.20	34.40			
	4:43	14	840	38.34	36.54			
	5:43	15	900	42.12	40.32			
	6:43	16	960	47.93	46.13			
	8:43	18	1080	54.00	52.20			
	9:22		1119	58.75	56.95	Stop		
		21	1260					
		22	1320					
		24	1440					
		27	1590					
		30	1800					
		33	1980					
		36	2160					
		39	2340					
		42	2520					
		45	2700					
		48	2880					

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**RECOVERY TEST DATA SHEET
PUMPED WELL (T2) DATA SHEET No. : 1/2**

Date: 21/Oct./2005

Location: Busekeseke Village, Sengerema District, Mwanza Region Site No.: Sengerema 83

GPS Reading: 423083 E, 9713761 N

Well No.: T2 Well Depth: 72.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 63.12-69.04 m

Static Groundwater Level: GL- 1.00 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 480 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s'] (m)
		(hour)	(min)				
21-Oct-05	9:22		0	1119		58.75	57.75
			1	1120	1120.000	53.20	52.20
			2	1121	560.500	53.12	52.12
			4	1123	280.750	52.15	51.15
			6	1125	187.500	51.45	50.45
			8	1127	140.875	51.00	50.00
			10	1129	112.900	50.23	49.23
			12	1131	94.250	50.02	49.02
			14	1133	80.929	49.31	48.31
			16	1135	70.938	49.03	48.03
			18	1137	63.167	48.40	47.40
			20	1139	56.950	47.56	46.56
			25	1144	45.760	46.40	45.40
			30	1149	38.300	45.16	44.16
			35	1154	32.971	42.23	41.23
			40	1159	28.975	39.20	38.20
			45	1164	25.867	38.90	37.90
			50	1169	23.380	37.20	36.20
	10:22	1	60	1179	19.650	32.49	31.49
			70	1189	16.986	29.81	28.81
			80	1199	14.988	28.05	27.05
			90	1209	13.433	26.01	25.01
			100	1219	12.190	23.77	22.77
			110	1229	11.173	20.55	19.55
	11:22	2	120	1239	10.325	19.03	18.03
			150	1269	8.460	17.10	16.10
	12:22	3	180	1299	7.217	14.30	13.30
			210	1329	6.329	12.95	11.95
	13:22	4	240	1359	5.663	11.80	10.80
			270	1389	5.144	11.05	10.05
	14:22	5	300	1419	4.730	9.76	8.76
			330	1449	4.391	8.96	7.96
	15:22	6	360	1479	4.108	7.88	6.88
			390	1509	3.869	6.94	5.94
	16:22	7	420	1539	3.664	5.80	4.80
			450	1569	3.487	4.78	3.78
	17:22	8	480	1599	3.331	3.50	2.50
	18:22	9	540	1659	3.072	2.65	1.65
	19:22	10	600	1719	2.865	1.58	0.58
	20:22	11	660	1779	2.695	1.32	0.32
	21:22	12	720	1839	2.554	1.00	0.00

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 07/Oct./2005

STEP No. : 1/9

Location: Nyamatarata Village, Kwimba District, Mwanza Region Site No.: Kwimba 69

GPS Reading: 533648 E, 9704138 N

Well No.: T3 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 37.16-46.04 m

Static Groundwater Level: GL- 8.84 m Screen Length: 9.88 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 300 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
7-Oct-05	13:00	0	0	8.84				
			1	12.55	3.71			
			2	15.70	6.86			
			4	16.23	7.39			
			6	16.70	7.86			
			8	17.08	8.24			
			10	17.30	8.46			
			12	17.42	8.58			
			14	17.57	8.73			
			16	17.72	8.88			
			18	17.85	9.01			
			20	17.99	9.15			
			25	18.21	9.37			
			30	18.46	9.62			
			35	18.74	9.90			
			40	19.10	10.26			
			45	19.46	10.62			
			50	19.72	10.88			
			55	20.27	11.43			
	14:00	1	60	20.62	11.78			
			70	21.24	12.40			
			80	21.65	12.81			
			90	21.98	13.14			
			100	22.20	13.36			
			110	22.42	13.58			
	15:00	2	120	22.66	13.82			
			130	22.80	13.96			
			140	23.06	14.22			
			150	23.30	14.46			
			160	23.42	14.58			
			170	23.67	14.83			
	16:00	3	180	23.94	15.10			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 07/Oct./2005

STEP No. : 2/9

Location: Nyamatarata Village, Kwimba District, Mwanza Region Site No.: Kwimba 69

GPS Reading: 533648 E, 9704138 N

Well No.: T3 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 37.16-46.04 m

Static Groundwater Level: GL- 8.84 m Screen Length: 9.88 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 320 m³/day

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
7-Oct-05	16:00	0	0	23.94	15.10			
			1	24.10	15.26			
			2	24.24	15.40			
			4	24.55	15.71			
			6	24.86	16.02			
			8	25.12	16.28			
			10	25.29	16.45			
			12	25.60	16.76			
			14	25.84	17.00			
			16	26.12	17.28			
			18	26.35	17.51			
			20	26.58	17.74			
			25	27.28	18.44			
			30	27.94	19.10			
			35	28.35	19.51			
			40	28.85	20.01			
			45	29.38	20.54			
			50	29.97	21.13			
			55	30.48	21.64			
	17:00	1	60	30.83	21.99			
			70	31.42	22.58			
			80	32.45	23.61			
			90	33.54	24.70			
			100	34.80	25.96			
			110	36.35	27.51			
	18:00	2	120	37.75	28.91			
			130	39.53	30.69			
			140	40.74	31.90			
	18:30		150	41.40	32.56	Stop		
			160					
			170					
		3	180					

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T3) DATA SHEET No. : 1/2

Date: 08/Oct./2005

Location: Nyamatarata Village, Kwimba District, Mwanza Region Site No.: Kwimba 69
 GPS Reading: 533648 E, 9704138 N
 Well No.: T3 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 37.16-46.04 m
 Static Groundwater Level: GL- 9.00 m Screen Length: 9.88 m
 Pump Type: Submersible Pump
 Pump Setting: 42.00 m, Discharge (Q): 300 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
8-Oct-05	10:08		0	9.00	0			
			1	11.60	2.60			
			2	12.44	3.44			
			3	13.00	4.00			
			4	13.39	4.39			
			5	13.56	4.56			
			6	13.72	4.72			
			8	13.99	4.99			
			10	14.27	5.27			
			15	14.45	5.45			
			20	14.80	5.80			
			25	15.11	6.11			
			30	15.55	6.55			
			35	16.48	7.48			
			40	16.60	7.60			
			45	17.89	8.89			
			50	18.35	9.35			
			55	19.00	10.00			
	11:08	1	60	19.43	10.43			
			70	20.70	11.70			
			80	21.84	12.84			
			90	22.97	13.97			
			100	24.20	15.20			
			110	25.31	16.31			
	12:08	2	120	26.55	17.55			
			140	27.80	18.80			
			160	30.08	21.08			
	13:08	3	180	31.80	22.80			
			210	33.73	24.73			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T3) DATA SHEET No. : 2/2**

Date: 08/Oct./2005

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu25

GPS Reading: 533648 E, 9704138 N

Well No.: T3 Well Depth: 49.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 300 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	14:08	4	240	35.25	26.25			
			270	36.63	27.63			
	15:08	5	300	38.08	29.08			
			330	38.79	29.79			
	16:08	6	360	39.81	30.81			
	17:08	7	420	41.10	32.10	Stop		
		8	480					
		9	540					
		10	600					
		11	660					
		12	720					
		13	780					
		14	840					
		15	900					
		16	960					
		18	1080					
		20	1200					
		21	1260					
		22	1320					
		24	1440					
		27	1620					
		30	1800					
		33	1980					
		36	2160					
		39	2340					
		42	2520					
		45	2700					
		48	2880					

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**RECOVERY TEST DATA SHEET
PUMPED WELL (T3) DATA SHEET No. : 1/2**

Date: 08-09/Oct./2005

Location: Nyamatarara Village, Kwimba District, Mwanza Region Site No.: Kwimba 69
GPS Reading: 533648 E, 9704138 N

Well No.: T3 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "
Screen Depth(s): 37.16-46.04 m
Static Groundwater Level: GL- 9.60 m Screen Length: 9.88 m
Pump Type: Submersible Pump
Pump Setting: 42.00 m, Discharge (Q): 300 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s] (m)
		(hour)	(min)				
8-Oct-05	16:30		0	420		41.10	31.50
			1	421	421.000	40.90	31.30
			2	422	211.000	40.75	31.15
			4	424	106.000	40.61	31.01
			6	426	71.000	40.41	30.81
			8	428	53.500	40.32	30.72
			10	430	43.000	40.23	30.63
			12	432	36.000	40.14	30.54
			14	434	31.000	40.08	30.48
			16	436	27.250	40.01	30.41
			18	438	24.333	39.94	30.34
			20	440	22.000	39.83	30.23
			25	445	17.800	39.76	30.16
			30	450	15.000	39.65	30.05
			35	455	13.000	39.54	29.94
			40	460	11.500	39.44	29.84
			45	465	10.333	39.33	29.73
			50	470	9.400	39.22	29.62
	17:30	1	60	480	8.000	38.90	29.30
			70	490	7.000	38.24	28.64
			80	500	6.250	37.93	28.33
			90	510	5.667	37.64	28.04
			100	520	5.200	37.31	27.71
			110	530	4.818	36.82	27.22
	18:30	2	120	540	4.500	36.50	26.90
			150	570	3.800	35.17	25.57
	19:30	3	180	600	3.333	33.93	24.33
			210	630	3.000	33.07	23.47
	20:30	4	240	660	2.750	31.43	21.83
			270	690	2.556	30.70	21.10
	21:30	5	300	720	2.400	29.61	20.01
			330	750	2.273	28.59	18.99
	22:30	6	360	780	2.167	27.56	17.96
			390	810	2.077	26.48	16.88
	23:30	7	420	840	2.000	25.75	16.15
			450	870	1.933	25.02	15.42
9-Oct-05	0:30	8	480	900	1.875	23.96	14.36
	1:30	9	540	960	1.778	20.34	10.74
	2:30	10	600	1020	1.700	18.85	9.25
	3:30	11	660	1080	1.636	17.42	7.82
	4:30	12	720	1140	1.583	16.40	6.80

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 03-04/Oct./2005

STEP No. : 1/9

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu 37

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 5.28 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 330 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
3-Oct-05	11:20	0	0	5.28				
			1	7.74	2.46			
			2	8.59	3.31			
			4	11.34	6.06			
			6	13.35	8.07	103.0	8.58	27.5
			8	13.94	8.66			
			10	13.97	8.69			
			12	15.09	9.81			
			14	15.13	9.85			
			16	15.14	9.86			
			18	15.17	9.89			
			20	15.22	9.94			
			25	15.47	10.19			
			30	15.70	10.42			
			35	15.84	10.56			
			40	15.99	10.71			
			45	16.24	10.96			
			50	16.50	11.22			
			55	16.75	11.47			
	12:20	1	60	17.14	11.86			
			70	17.61	12.33			
			80	18.02	12.74			
			90	18.38	13.10			
			100	18.79	13.51			
			110	19.19	13.91			
	13:20	2	120	19.51	14.23			
			130	19.85	14.57			
			140	20.15	14.87			
			150	20.46	15.18			
			160	20.75	15.47			
			170	21.00	15.72			
	14:20	3	180	21.22	15.94			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 03-04/Oct./2005

STEP No. : 2/9

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu 37

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 5.28 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 340 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
3-Oct-05	14:20	0	0	21.22	15.94			
			1	21.48	16.20			
			2	21.55	16.27			
			4	21.77	16.49			
			6	21.79	16.51			
			8	21.85	16.57			
			10	21.93	16.65			
			12	22.00	16.72			
			14	22.07	16.79			
			16	22.13	16.85			
			18	22.20	16.92			
			20	22.26	16.98			
			25	22.43	17.15			
			30	22.62	17.34			
			35	22.73	17.45			
			40	22.88	17.60			
			45	23.09	17.81			
			50	23.35	18.07			
			55	23.41	18.13			
	15:20	1	60	23.47	18.19			
			70	23.54	18.26			
			80	23.72	18.44			
			90	23.86	18.58			
			100	24.06	18.78			
			110	24.27	18.99			
	16:20	2	120	24.32	19.04			
			130	24.37	19.09			
			140	24.44	19.16			
			150	24.51	19.23			
			160	24.58	19.30			
			170	24.65	19.37			
	17:20	3	180	24.71	19.43			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 03-04/Oct./2005

STEP No. : 3/9

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu 37

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 5.28 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 350 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
3-Oct-05	17:20	0	0	24.71	19.43			
			1	24.75	19.47			
			2	24.79	19.51			
			4	24.96	19.68			
			6	25.08	19.80			
			8	25.23	19.95			
			10	25.34	20.06			
			12	25.46	20.18			
			14	25.58	20.30			
			16	25.67	20.39			
			18	25.78	20.50			
			20	25.86	20.58			
			25	26.09	20.81			
			30	26.32	21.04			
			35	26.54	21.26			
			40	26.74	21.46			
			45	26.91	21.63			
			50	27.11	21.83			
			55	27.26	21.98			
	18:20	1	60	27.37	22.09			
			70	27.60	22.32			
			80	27.73	22.45			
			90	27.79	22.51			
			100	27.85	22.57			
			110	27.89	22.61			
	19:20	2	120	27.91	22.63			
			130	27.94	22.66			
			140	27.99	22.71			
			150	28.03	22.75			
			160	28.07	22.79			
			170	29.11	23.83			
	20:20	3	180	28.13	22.85			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 03-04/Oct./2005

STEP No. : 4/9

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu 37

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 5.28 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 360 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
3-Oct-05	20:20	0	0	28.13	22.85			
			1	28.18	22.90			
			2	28.25	22.97			
			4	28.34	23.06			
			6	28.47	23.19			
			8	28.58	23.30			
			10	28.69	23.41			
			12	28.98	23.70			
			14	29.19	23.91			
			16	29.33	24.05			
			18	29.42	24.14			
			20	29.53	24.25			
			25	29.80	24.52			
			30	30.05	24.77			
			35	30.33	25.05			
			40	30.49	25.21			
			45	30.76	25.48			
			50	30.89	25.61			
			55	31.09	25.81			
	21:20	1	60	31.24	25.96			
			70	31.89	26.61			
			80	31.99	26.71			
			90	32.18	26.90			
			100	32.46	27.18			
			110	32.68	27.40			
	22:20	2	120	32.84	27.56			
			130	32.98	27.70			
			140	33.17	27.89			
			150	33.29	28.01			
			160	33.43	28.15			
			170	33.49	28.21			
	23:20	3	180	33.54	28.26			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 03-04/Oct./2005

STEP No. : 5/9

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu 37

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 5.28 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 380 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
3-Oct-05	23:20	0	0	33.54	28.26			
			1	33.69	28.41			
			2	33.85	28.57			
			4	34.04	28.76			
			6	34.19	28.91			
			8	34.32	29.04			
			10	34.46	29.18			
			12	34.59	29.31			
			14	34.70	29.42			
			16	34.87	29.59			
			18	34.94	29.66			
			20	35.02	29.74			
			25	35.28	30.00			
			30	35.49	30.21			
			35	35.70	30.42			
			40	35.89	30.61			
			45	36.07	30.79			
			50	36.22	30.94			
			55	36.39	31.11			
4-Oct-05	0:20	1	60	36.46	31.18			
			70	36.62	31.34			
			80	36.75	31.47			
			90	36.87	31.59			
			100	36.94	31.66			
			110	37.08	31.80			
	1:20	2	120	37.11	31.83			
			130	37.26	31.98			
			140	37.35	32.07			
			150	37.35	32.07			
			160	37.35	32.07			
			170	37.35	32.07			
	2:20	3	180	37.35	32.07			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 03-04/Oct./2005

STEP No. : 6/9

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu 37

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 5.28 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 360 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
4-Oct-05	2:20	0	0	37.35	32.07			
			1	37.24	31.96			
			2	37.16	31.88			
			4	37.01	31.73			
			6	36.86	31.58			
			8	36.74	31.46			
			10	36.65	31.37			
			12	36.60	31.32			
			14	36.55	31.27			
			16	36.50	31.22			
			18	36.47	31.19			
			20	36.43	31.15			
			25	36.34	31.06			
			30	36.24	30.96			
			35	36.13	30.85			
			40	36.03	30.75			
			45	35.92	30.64			
			50	35.83	30.55			
			55	35.72	30.44			
	3:20	1	60	35.62	30.34			
			70	35.41	30.13			
			80	35.21	29.93			
			90	35.00	29.72			
			100	34.89	29.61			
			110	34.83	29.55			
	4:20	2	120	34.77	29.49			
			130	34.69	29.41			
			140	34.62	29.34			
			150	34.52	29.24			
			160	34.44	29.16			
			170	34.42	29.14			
	5:20	3	180	34.32	29.04			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 03-04/Oct./2005

STEP No. : 7/9

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu 37

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 5.28 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 350 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
4-Oct-05	5:20	0	0	34.32	29.04			
			1	34.24	28.96			
			2	34.19	28.91			
			4	34.12	28.84			
			6	34.09	28.81			
			8	34.08	28.80			
			10	34.08	28.80			
			12	34.08	28.80			
			14	34.08	28.80			
			16	34.07	28.79			
			18	34.05	28.77			
			20	34.04	28.76			
			25	33.97	28.69			
			30	33.91	28.63			
			35	33.86	28.58			
			40	33.86	28.58			
			45	33.79	28.51			
			50	33.75	28.47			
			55	33.71	28.43			
	6:20	1	60	33.67	28.39			
			70	33.58	28.30			
			80	33.44	28.16			
			90	33.39	28.11			
			100	33.34	28.06			
			110	33.25	27.97			
	7:20	2	120	33.00	27.72			
			130	32.91	27.63			
			140	32.88	27.60			
			150	32.85	27.57			
			160	32.82	27.54			
			170	32.80	27.52			
	8:20	3	180	32.78	27.50			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 03-04/Oct./2005

STEP No. : 8/9

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu 37

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 5.28 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 340 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
4-Oct-05	8:20	0	0	32.78	27.50			
			1	32.77	27.49			
			2	32.76	27.48			
			4	32.75	27.47			
			6	32.73	27.45			
			8	32.71	27.43			
			10	32.69	27.41			
			12	32.67	27.39			
			14	32.65	27.37			
			16	32.63	27.35			
			18	32.62	27.34			
			20	32.58	27.30			
			25	32.42	27.14			
			30	32.36	27.08			
			35	32.29	27.01			
			40	32.22	26.94			
			45	32.13	26.85			
			50	32.04	26.76			
			55	31.93	26.65			
	9:20	1	60	31.81	26.53			
			70	31.67	26.39			
			80	31.57	26.29			
			90	31.46	26.18			
			100	31.34	26.06			
			110	31.27	25.99			
	10:20	2	120	31.18	25.90			
			130	31.11	25.83			
			140	31.05	25.77			
			150	30.99	25.71			
			160	30.92	25.64			
			170	30.87	25.59			
	11:20	3	180	30.79	25.51			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 03-04/Oct./2005

STEP No. : 9/9

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu 37

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 53.28 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 5.28 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 330 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
4-Oct-05	11:20	0	0	30.79	25.51			
			1	30.80	25.52			
			2	30.81	25.53			
			4	30.79	25.51			
			6	30.78	25.50			
			8	30.77	25.49			
			10	30.76	25.48			
			12	30.75	25.47			
			14	30.74	25.46			
			16	30.73	25.45			
			18	30.72	25.44			
			20	30.71	25.43			
			25	30.70	25.42			
			30	30.69	25.41			
			35	30.68	25.40			
			40	30.67	25.39			
			45	30.66	25.38			
			50	30.65	25.37			
			55	30.63	25.35			
	12:20	1	60	30.61	25.33			
			70	30.54	25.26			
			80	30.46	25.18			
			90	30.39	25.11			
			100	30.34	25.06			
			110	30.30	25.02			
	13:20	2	120	30.25	24.97			
			130	30.21	24.93			
			140	30.12	24.84			
			150	30.09	24.81			
			160	30.02	24.74			
			170	29.99	24.71			
	14:20	3	180	29.93	24.65			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T4) DATA SHEET No. : 1/2**

Date: 04-05/Oct./2005

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu25

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 49.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 9.38 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 300 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
4-Oct-05	18:40		0	9.38	0			
			1	10.29	0.91			
			2	11.26	1.88			
			3	11.59	2.21			
			4	11.93	2.55			
			5	12.21	2.83			
			6	12.33	2.95			
			8	12.47	3.09			
			10	12.66	3.28			
			15	13.67	4.29			
			20	14.32	4.94			
			25	14.95	5.57			
			30	15.54	6.16			
			35	15.95	6.57			
			40	16.41	7.03			
			45	16.86	7.48			
			50	17.25	7.87			
			55	17.59	8.21			
	19:40	1	60	17.89	8.51			
			70	18.47	9.09			
			80	19.05	9.67			
			90	19.69	10.31			
			100	19.89	10.51			
			110	20.29	10.91			
	20:40	2	120	20.60	11.22			
			140	20.83	11.45			
			160	21.09	11.71			
	21:40	3	180	21.30	11.92			
			210	21.81	12.43			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T4) DATA SHEET No. : 2/2**

Date: 04-05/Oct./2005

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu25

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 49.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 9.38 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 300 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	22:40	4	240	22.12	12.74			
			270	22.96	13.58			
	23:40	5	300	23.77	14.39			
			330	24.58	15.20			
5-Oct-05	0:40	6	360	25.19	15.81			
	1:40	7	420	25.89	16.51			
	2:40	8	480	26.50	17.12			
	3:40	9	540	26.85	17.47			
	4:40	10	600	27.07	17.69			
	5:40	11	660	27.27	17.89			
	6:40	12	720	27.65	18.27			
	7:40	13	780	27.99	18.61			
	8:40	14	840	28.36	18.98			
	9:40	15	900	28.92	19.54			
	10:40	16	960	29.29	19.91			
	12:40	18	1080	29.71	20.33			
	14:40	20	1200	31.44	22.06			
	15:40	21	1260	31.89	22.51			
	16:40	22	1320	32.23	22.85			
	18:40	24	1440	34.27	24.89	96.5	8.50	
	21:40	27	1590	37.71	28.33			
	23:05		1675	40.99	31.61	Stop		
		33	1980					
		36	2160					
		39	2340					
		42	2520					
		45	2700					
		48	2880					

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

RECOVERY TEST DATA SHEET

Date: 05-06/Oct./2005

PUMPED WELL (T4) DATA SHEET No. : 1/2

Location: Igekemaja Village, Magu District, Mwanza Region Site No.: Magu25

GPS Reading: 505862 E, 9712746 N

Well No.: T4 Well Depth: 49.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 35.52-41.44, 44.40-50.32 m

Static Groundwater Level: GL- 9.38 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 42.00 m, Discharge (Q): 300 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s] (m)
		(hour)	(min)				
5-Oct-05	23:05		0	1675		40.99	31.61
			1	1676	1676.000	40.72	31.34
			2	1677	838.500	40.44	31.06
			4	1679	419.750	39.85	30.47
			6	1681	280.167	39.43	30.05
			8	1683	210.375	38.76	29.38
			10	1685	168.500	37.95	28.57
			12	1687	140.583	37.11	27.73
			14	1689	120.643	37.47	28.09
			16	1691	105.688	36.90	27.52
			18	1693	94.056	36.61	27.23
			20	1695	84.750	36.09	26.71
			25	1700	68.000	34.97	25.59
			30	1705	56.833	34.06	24.68
			35	1710	48.857	32.75	23.37
			40	1715	42.875	31.74	22.36
			45	1720	38.222	30.46	21.08
			50	1725	34.500	29.43	20.05
06-Oct-05	0:05	1	60	1735	28.917	28.20	18.82
			70	1745	24.929	27.68	18.30
			80	1755	21.938	26.54	17.16
			90	1765	19.611	23.79	14.41
			100	1775	17.750	22.82	13.44
			110	1785	16.227	22.17	12.79
	1:05	2	120	1795	14.958	21.21	11.83
			150	1825	12.167	18.69	9.31
	2:05	3	180	1855	10.306	17.09	7.71
			210	1885	8.976	14.00	4.62
	3:05	4	240	1915	7.979	12.69	3.31
			270	1945	7.204	10.99	1.61
	4:05	5	300	1975	6.583	10.06	0.68
			330	2005	6.076	9.49	0.11
	5:05	6	360	2035	5.653	8.95	-0.43
			390	2065	5.295	8.45	-0.93
	6:05	7	420	2095	4.988	8.24	-1.14
			450	2125	4.722	8.12	-1.26
	7:05	8	480	2155	4.490	8.03	-1.35
	8:05	9	540	2215	4.102	7.95	-1.43
	9:05	10	600	2275	3.792	7.87	-1.51
	10:05	11	660	2335	3.538	7.79	-1.59
	11:05	12	720	2395	3.326	7.69	-1.69

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 15-16/Oct./2005

STEP No. : 1/9

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27

GPS Reading: 423859 E, 9647130 S

Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 62.24-71.12, 74.08-77.04 m

Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 600 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
15-Oct-05	15:10	0	0	1.30				
			1	1.78	0.48			
			2	1.80	0.50			
			4	1.83	0.53			
			6	1.86	0.56			
			8	1.88	0.58			
			10	1.90	0.60			
			12	1.92	0.62			
			14	1.94	0.64			
			16	1.99	0.69			
			18	2.10	0.80			
			20	2.21	0.91			
			25	2.30	1.00			
			30	2.31	1.01			
			35	2.32	1.02			
			40	2.33	1.03			
			45	2.34	1.04			
			50	2.35	1.05			
			55	2.36	1.06			
	16:10	1	60	2.37	1.07			
			70	2.40	1.10			
			80	2.44	1.14			
			90	2.48	1.18			
			100	2.52	1.22			
			110	2.57	1.27			
	17:10	2	120	2.62	1.32			
			130	2.66	1.36			
			140	2.68	1.38			
			150	2.69	1.39			
			160	2.69	1.39			
			170	2.69	1.39			
	18:10	3	180	2.69	1.39			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 15-16/Oct./2005

STEP No. : 2/9

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27
 GPS Reading: 423859 E, 9647130 N
 Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 62.24-71.12, 74.08-77.04 m
 Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m
 Pump Type: Submersible Pump
 Pump Setting: 75.00 m, Discharge (Q): 900 m³/day

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
15-Oct-05	18:10	0	0	2.69	1.39			
			1	2.72	1.42			
			2	2.77	1.47			
			4	2.83	1.53			
			6	2.95	1.65			
			8	3.00	1.70			
			10	3.07	1.77			
			12	3.15	1.85			
			14	3.30	2.00			
			16	3.33	2.03			
			18	3.41	2.11			
			20	3.51	2.21			
			25	3.60	2.30			
			30	3.63	2.33			
			35	3.67	2.37			
			40	3.75	2.45			
			45	4.00	2.70			
			50	4.26	2.96			
			55	4.52	3.22			
	19:10	1	60	4.82	3.52			
			70	5.16	3.86			
			80	5.24	3.94			
			90	5.36	4.06			
			100	5.45	4.15			
			110	5.60	4.30			
	20:10	2	120	5.85	4.55			
			130	5.87	4.57			
			140	5.87	4.57			
			150	5.87	4.57			
			160	5.87	4.57			
			170	5.87	4.57			
	21:20	3	180	5.87	4.57			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 15-16/Oct./2005

STEP No. : 3/9

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27

GPS Reading: 423859 E, 9647130 N

Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 62.24-71.12, 74.08-77.04 m

Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 1,200 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
15-Oct-05	21:10	0	0	5.87	4.57			
			1	6.25	4.95			
			2	6.55	5.25			
			4	6.96	5.66			
			6	7.35	6.05			
			8	7.64	6.34			
			10	7.88	6.58			
			12	8.22	6.92			
			14	8.60	7.30			
			16	8.95	7.65			
			18	9.22	7.92			
			20	9.57	8.27			
			25	10.65	9.35			
			30	11.18	9.88			
			35	11.90	10.60			
			40	12.70	11.40			
			45	13.46	12.16			
			50	14.15	12.85			
			55	14.39	13.09			
	22:10	1	60	14.70	13.40			
			70	14.98	13.68			
			80	15.05	13.75			
			90	15.12	13.82			
			100	15.24	13.94			
			110	15.31	14.01			
	23:10	2	120	15.40	14.10			
			130	15.47	14.17			
			140	15.51	14.21			
			150	15.58	14.28			
			160	15.64	14.34			
			170	15.70	14.40			
16-Oct-05	0:10	3	180	15.76	14.46			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 15-16/Oct./2005

STEP No. : 4/9

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27

GPS Reading: 423859 E, 9647130 N

Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 62.24-71.12, 74.08-77.04 m

Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 1,400 m³/day

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
16-Oct-05	0:10	0	0	15.76	14.46			
			1	16.02	14.72			
			2	16.38	15.08			
			4	16.90	15.60			
			6	17.32	16.02			
			8	17.95	16.65			
			10	18.50	17.20			
			12	19.08	17.78			
			14	19.52	18.22			
			16	19.90	18.60			
			18	20.31	19.01			
			20	20.75	19.45			
			25	22.50	21.20			
			30	23.48	22.18			
			35	24.40	23.10			
			40	25.20	23.90			
			45	26.20	24.90			
			50	26.87	25.57			
			55	27.55	26.25			
	1:10	1	60	28.15	26.85			
			70	29.72	28.42			
			80	30.84	29.54			
			90	31.56	30.26			
			100	33.10	31.80			
			110	34.90	33.60			
	2:10	2	120	35.85	34.55			
			130	37.14	35.84			
			140	38.32	37.02			
			150	39.06	37.76			
			160	40.52	39.22			
			170	41.29	39.99			
	3:10	3	180	41.88	40.58			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 15-16/Oct./2005

STEP No. : 5/9

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27

GPS Reading: 423859 E, 9647130 N

Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 62.24-71.12, 74.08-77.04 m

Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 1,500 m³/day

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
16-Oct-05	3:10	0	0	41.88	40.58			
			1	41.93	40.63			
			2	41.98	40.68			
			4	42.02	40.72			
			6	42.08	40.78			
			8	42.14	40.84			
			10	42.20	40.90			
			12	42.26	40.96			
			14	42.31	41.01			
			16	42.38	41.08			
			18	42.43	41.13			
			20	42.49	41.19			
			25	42.53	41.23			
			30	42.57	41.27			
			35	42.61	41.31			
			40	42.65	41.35			
			45	42.70	41.40			
			50	42.74	41.44			
			55	42.78	41.48			
	4:10	1	60	42.82	41.52			
			70	43.07	41.77			
			80	43.38	42.08			
			90	43.51	42.21			
			100	43.67	42.37			
			110	43.83	42.53			
	5:10	2	120	44.00	42.70			
			130	45.08	43.78			
			140	46.02	44.72			
			150	47.05	45.75			
			160	47.82	46.52			
			170	49.25	47.95			
	6:10	3	180	49.90	48.60			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 15-16/Oct./2005

STEP No. : 6/9

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27

GPS Reading: 423859 E, 9647130 N

Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 62.24-71.12, 74.08-77.04 m

Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 1,400 m³/day

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
16-Oct-05	6:10	0	0	49.90	48.60			
			1	49.50	48.20			
			2	49.20	47.90			
			4	48.89	47.59			
			6	48.59	47.29			
			8	48.35	47.05			
			10	48.00	46.70			
			12	47.71	46.41			
			14	47.42	46.12			
			16	47.03	45.73			
			18	46.68	45.38			
			20	45.57	44.27			
			25	44.60	43.30			
			30	44.49	43.19			
			35	43.43	42.13			
			40	42.50	41.20			
			45	41.56	40.26			
			50	40.78	39.48			
			55	39.94	38.64			
	7:10	1	60	39.06	37.76			
			70	38.48	37.18			
			80	37.89	36.59			
			90	37.37	36.07			
			100	36.90	35.60			
			110	36.41	35.11			
	8:10	2	120	35.99	34.69			
			130	35.50	34.20			
			140	35.05	33.75			
			150	34.63	33.33			
			160	34.31	33.01			
			170	34.10	32.80			
	9:10	3	180	33.82	32.52			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 15-16/Oct./2005

STEP No. : 7/9

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27

GPS Reading: 423859 E, 9647130 N

Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 62.24-71.12, 74.08-77.04 m

Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 1,200 m³/day

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
16-Oct-05	9:10	0	0	33.82	32.52			
			1	33.30	32.00			
			2	33.10	31.80			
			4	33.00	31.70			
			6	32.90	31.60			
			8	32.72	31.42			
			10	32.60	31.30			
			12	32.45	31.15			
			14	32.35	31.05			
			16	32.20	30.90			
			18	32.09	30.79			
			20	31.94	30.64			
			25	31.65	30.35			
			30	31.40	30.10			
			35	31.01	29.71			
			40	30.72	29.42			
			45	30.42	29.12			
			50	30.06	28.76			
			55	29.80	28.50			
	10:10	1	60	29.50	28.20			
			70	28.84	27.54			
			80	28.36	27.06			
			90	27.71	26.41			
			100	27.10	25.80			
			110	26.65	25.35			
	11:10	2	120	25.96	24.66			
			130	25.44	24.14			
			140	24.90	23.60			
			150	24.52	23.22			
			160	24.03	22.73			
			170	23.76	22.46			
	12:10	3	180	23.68	22.38			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 15-16/Oct./2005

STEP No. : 8/9

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27

GPS Reading: 423859 E, 9647130 N

Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 62.24-71.12, 74.08-77.04 m

Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 900 m³/day

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
16-Oct-05	12:10	0	0	23.68	22.38			
			1	23.60	22.30			
			2	23.51	22.21			
			4	23.46	22.16			
			6	23.40	22.10			
			8	23.37	22.07			
			10	23.30	22.00			
			12	23.08	21.78			
			14	22.75	21.45			
			16	22.46	21.16			
			18	22.20	20.90			
			20	21.81	20.51			
			25	21.12	19.82			
			30	20.36	19.06			
			35	19.50	18.20			
			40	18.47	17.17			
			45	17.76	16.46			
			50	16.90	15.60			
			55	16.29	14.99			
	13:10	1	60	15.50	14.20			
			70	14.39	13.09			
			80	13.51	12.21			
			90	12.80	11.50			
			100	11.76	10.46			
			110	10.93	9.63			
	14:10	2	120	9.99	8.69			
			130	8.26	6.96			
			140	7.18	5.88			
			150	6.53	5.23			
			160	5.89	4.59			
			170	5.17	3.87			
	15:10	3	180	4.95	3.65			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 15-16/Oct./2005

STEP No. : 9/9

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27

GPS Reading: 423859 E, 9647130 N

Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 62.24-71.12, 74.08-77.04 m

Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 600 m³/day

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
16-Oct-05	15:10	0	0	4.95	3.65			
			1	4.90	3.60			
			2	4.83	3.53			
			4	4.80	3.50			
			6	4.77	3.47			
			8	4.75	3.45			
			10	4.74	3.44			
			12	4.72	3.42			
			14	4.70	3.40			
			16	4.69	3.39			
			18	4.67	3.37			
			20	4.65	3.35			
			25	4.63	3.33			
			30	4.58	3.28			
			35	4.53	3.23			
			40	4.50	3.20			
			45	4.46	3.16			
			50	4.42	3.12			
			55	4.39	3.09			
	16:10	1	60	4.35	3.05			
			70	4.28	2.98			
			80	4.21	2.91			
			90	4.15	2.85			
			100	4.10	2.80			
			110	4.05	2.75			
	17:10	2	120	4.00	2.70			
			130	3.97	2.67			
			140	3.94	2.64			
			150	3.90	2.60			
			160	3.86	2.56			
			170	3.82	2.52			
	18:10	3	180	3.78	2.48			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T5) DATA SHEET No. : 1/2**

Date: 16-18/Oct./2005

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27
 GPS Reading: 423859 E, 9647130 N
 Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 62.24-71.12, 74.08-77.04 m
 Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m
 Pump Type: Submersible Pump
 Pump Setting: 75.00 m, Discharge (Q): 900 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
16-Oct-05	18:40		0	1.30	0			
			1	3.33	2.03			
			2	3.64	2.34			
			3	4.32	3.02			
			4	4.82	3.52			
			5	5.50	4.20			
			6	6.02	4.72			
			8	6.93	5.63			
			10	7.66	6.36			
			15	9.55	8.25			
			20	10.60	9.30			
			25	12.24	10.94			
			30	13.11	11.81			
			35	13.73	12.43			
			40	14.09	12.79			
			45	14.64	13.34			
			50	15.12	13.82			
			55	15.78	14.48			
	19:40	1	60	16.51	15.21			
			70	18.60	17.30			
			80	20.60	19.30			
			90	22.14	20.84			
			100	23.91	22.61			
			110	25.52	24.22			
	20:40	2	120	26.53	25.23			
			140	29.82	28.52			
			160	31.68	30.38			
	21:40	3	180	34.05	32.75			
			210	35.63	34.33			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T5) DATA SHEET No. : 2/2**

Date: 16-18/Oct./2005

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27
 GPS Reading: 423859 E, 9647130 N
 Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 62.24-71.12, 74.08-77.04 m
 Static Groundwater Level: GL- 1.80 m Screen Length: 11.84 m
 Pump Type: Submersible Pump
 Pump Setting: 75.00 m, Discharge (Q): 900 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	22:40	4	240	37.02	35.22			
			270	37.77	35.97			
	23:40	5	300	38.41	36.61			
			330	38.99	37.19			
17-Oct-05	0:40	6	360	39.38	37.58			
	1:40	7	420	39.46	37.66			
	2:40	8	480	39.61	37.81			
	3:40	9	540	39.74	37.94			
	4:40	10	600	39.83	38.03			
	5:40	11	660	40.04	38.24			
	6:40	12	720	40.17	38.37			
	7:40	13	780	40.31	38.51			
	8:40	14	840	40.44	38.64			
	9:40	15	900	40.78	38.98			
	10:40	16	960	40.90	39.10			
	12:40	18	1080	41.25	39.45			
	14:40	20	1200	41.48	39.68			
	15:40	21	1260	41.73	39.93			
	16:40	22	1320	41.74	39.94			
	18:40	24	1440	41.80	40.00			
	21:40	27	1590	41.86	40.06			
18-Oct-05	0:40	30	1800	41.90	40.10			
	3:40	33	1980	41.90	40.10			
	6:40	36	2160	41.90	40.10			
	9:40	39	2340	41.90	40.10			
	12:40	42	2520	41.90	40.10			
	15:40	45	2700	41.90	40.10			
	18:40	48	2880	41.90	40.10			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**RECOVERY TEST DATA SHEET
PUMPED WELL (T5) DATA SHEET No. : 1/2**

Date: 18/Oct./2005

Location: Ikina Village, Geita District, Mwanza Region Site No.: Geita 27

GPS Reading: 423859 E, 9647130 N

Well No.: T5 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 62.24-71.12, 74.08-77.04 m

Static Groundwater Level: GL- 1.30 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 900 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t'/t]	Water Level (GL - m)	Residual Drawdown, [s] (m)
		(hour)	(min)				
18-Oct-05	18:40		0	2880		41.90	40.60
			1	2881	2881.000	37.40	36.10
			2	2882	1441.000	35.65	34.35
			4	2884	721.000	35.05	33.75
			6	2886	481.000	34.32	33.02
			8	2888	361.000	33.55	32.25
			10	2890	289.000	32.85	31.55
			12	2892	241.000	32.10	30.80
			14	2894	206.714	31.16	29.86
			16	2896	181.000	30.63	29.33
			18	2898	161.000	30.00	28.70
			20	2900	145.000	29.20	27.90
			25	2905	116.200	27.30	26.00
			30	2910	97.000	25.55	24.25
			35	2915	83.286	23.66	22.36
			40	2920	73.000	21.80	20.50
			45	2925	65.000	19.46	18.16
			50	2930	58.600	17.56	16.26
	19:40	1	60	2940	49.000	13.80	12.50
			70	2950	42.143	10.82	9.52
			80	2960	37.000	9.30	8.00
			90	2970	33.000	8.02	6.72
			100	2980	29.800	6.79	5.49
			110	2990	27.182	6.22	4.92
	20:40	2	120	3000	25.000	4.85	3.55
			150	3030	20.200	4.11	2.81
	21:40	3	180	3060	17.000	3.10	1.80
			210	3090	14.714	2.65	1.35
	22:40	4	240	3120	13.000	2.15	0.85
			270	3150	11.667	1.35	0.05
	23:40	5	300	3180	10.600	1.30	0.00
			330	3210	9.727		
		6	360	3240	9.000		
			390	3270	8.385		
		7	420	3300	7.857		
			450	3330	7.400		
		8	480	3360	7.000		
		9	540	3420	6.333		
		10	600	3480	5.800		
		11	660	3540	5.364		
		12	720	3600	5.000		

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09/Nov./2005

STEP No. : 1/9

Location: Buhima Village, Ukerewe District, Mwanza Region Site No.: Ukerewe 73

GPS Reading: 493527 E, 9775450 N

Well No.: T6 Well Depth: 86.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 77.12-83.04 m

Static Groundwater Level: GL- 9.23 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 170 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
9-Nov-05	6:05	0	0	9.23				
			1	11.46	2.23			
			2	12.79	3.56			
			4	13.28	4.05			
			6	13.34	4.11			
			8	13.38	4.15			
			10	13.41	4.18			
			12	13.45	4.22			
			14	13.48	4.25			
			16	13.52	4.29			
			18	13.60	4.37			
			20	13.68	4.45			
			25	13.76	4.53			
			30	13.84	4.61			
			35	13.93	4.70			
			40	14.01	4.78			
			45	14.12	4.89			
			50	14.21	4.98			
			55	14.30	5.07			
	7:05	1	60	14.38	5.15			
			70	14.50	5.27			
			80	14.61	5.38			
			90	14.72	5.49			
			100	14.83	5.60			
			110	14.95	5.72			
	8:05	2	120	15.04	5.81			
			130	15.11	5.88			
			140	15.23	6.00			
			150	15.31	6.08			
			160	15.37	6.14			
			170	15.41	6.18			
	9:05	3	180	15.49	6.26			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09/Nov./2005

STEP No. : 2/9

Location: Buhima Village, Ukerewe District, Mwanza Region Site No.: Ukerewe 73

GPS Reading: 493527 E, 9775450 N

Well No.: T6 Well Depth: 86.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 77.12-83.04 m

Static Groundwater Level: GL- 9.23 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 200 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
9-Nov-05	9:05	0	0	15.49	6.26			
			1	15.90	6.67			
			2	16.22	6.99			
			4	16.60	7.37			
			6	16.85	7.62			
			8	17.23	8.00			
			10	17.50	8.27			
			12	17.86	8.63			
			14	18.20	8.97			
			16	18.50	9.27			
			18	18.71	9.48			
			20	18.85	9.62			
			25	19.32	10.09			
			30	19.80	10.57			
			35	20.57	11.34			
			40	21.14	11.91			
			45	21.70	12.47			
			50	22.32	13.09			
			55	22.96	13.73			
	10:05	1	60	23.20	13.97			
			70	23.82	14.59			
			80	24.14	14.91			
			90	24.90	15.67			
			100	25.31	16.08			
			110	25.89	16.66			
	11:05	2	120	26.46	17.23			
			130	27.00	17.77			
			140	27.65	18.42			
			150	28.08	18.85			
			160	28.79	19.56			
			170	29.40	20.17			
	12:05	3	180	30.01	20.78			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09/Nov./2005

STEP No. : 3/9

Location: Buhima Village, Ukerewe District, Mwanza Region Site No.: Ukerewe 73

GPS Reading: 493527 E, 9775450 N

Well No.: T6 Well Depth: 86.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 77.12-83.04 m

Static Groundwater Level: GL- 9.23 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 220 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
9-Nov-05	12:05	0	0	30.01	20.78			
			1	30.25	21.02			
			2	30.37	21.14			
			4	30.55	21.32			
			6	30.81	21.58			
			8	31.02	21.79			
			10	31.25	22.02			
			12	31.49	22.26			
			14	31.75	22.52			
			16	31.92	22.69			
			18	32.12	22.89			
			20	32.32	23.09			
			25	32.98	23.75			
			30	33.46	24.23			
			35	34.06	24.83			
			40	34.47	25.24			
			45	34.99	25.76			
			50	35.50	26.27			
			55	35.95	26.72			
	13:05	1	60	36.40	27.17			
			70	36.90	27.67			
			80	37.41	28.18			
			90	37.92	28.69			
			100	38.18	28.95			
			110	38.48	29.25			
	14:05	2	120	38.70	29.47			
			130	39.11	29.88			
			140	40.99	31.76			
			150	42.82	33.59			
			160	45.47	36.24			
			170	47.96	38.73			
	15:05	3	180	48.90	39.67			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09/Nov./2005

STEP No. : 4/9

Location: Buhima Village, Ukerewe District, Mwanza Region Site No.: Ukerewe 73

GPS Reading: 493527 E, 9775450 N

Well No.: T6 Well Depth: 86.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 77.12-83.04 m

Static Groundwater Level: GL- 9.23 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 230 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
9-Nov-05	15:05	0	0	48.90	39.67			
			1	49.70	40.47			
			2	50.62	41.39			
			4	51.33	42.10			
			6	51.99	42.76			
			8	52.54	43.31			
			10	53.00	43.77			
			12	53.49	44.26			
			14	53.94	44.71			
			16	54.41	45.18			
			18	54.90	45.67			
			20	55.32	46.09			
			25	56.21	46.98			
			30	57.00	47.77			
			35	57.72	48.49			
			40	58.34	49.11			
			45	58.99	49.76			
			50	59.47	50.24			
			55	59.88	50.65			
	16:05	1	60	60.30	51.07			
			70	60.73	51.50			
			80	61.25	52.02			
			90	61.84	52.61			
			100	62.26	53.03			
			110	62.79	53.56			
	17:05	2	120	63.17	53.94			
			130	63.62	54.39			
			140	64.00	54.77			
			150	64.45	55.22			
			160	64.91	55.68			
			170	65.39	56.16			
	18:05	3	180	65.92	56.69			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09/Nov./2005

STEP No. : 5/9

Location: Buhima Village, Ukerewe District, Mwanza Region Site No.: Ukerewe 73

GPS Reading: 493527 E, 9775450 N

Well No.: T6 Well Depth: 86.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 77.12-83.04 m

Static Groundwater Level: GL- 9.23 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 75.00 m, Discharge (Q): 240 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
9-Nov-05	18:05	0	0	65.92	56.69			
			1	66.30	57.07			
			2	66.74	57.51			
			4	67.17	57.94			
			6	67.73	58.50			
			8	68.05	58.82			
			10	68.59	59.36			
			12	69.01	59.78			
			14	69.48	60.25			
			16	69.99	60.76			
			18	70.48	61.25			
			20	70.99	61.76			
			25	71.93	62.70			
			30	73.87	64.64			
	18:40		35	75.00	65.77	Stop		
			40					
			45					
			50					
			55					
		1	60					
			70					
			80					
			90					
			100					
			110					
		2	120					
			130					
			140					
			150					
			160					
			170					
		3	180					

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T6) DATA SHEET No. : 1/2**

Date: 10-11/Nov./2005

Location: Buhima Village, Ukerewe District, Mwanza Region Site No.: Ukerewe 73
 GPS Reading: 493527 E, 9775450 N
 Well No.: T6 Well Depth: 86.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 77.12-83.04 m
 Static Groundwater Level: GL- 9.23 m Screen Length: 5.92 m
 Pump Type: Submersible Pump
 Pump Setting: 75.00 m, Discharge (Q): 120 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Nov-05	7:00		0	9.23	0			
			1	10.92	1.69			
			2	12.03	2.80			
			3	13.00	3.77			
			4	13.73	4.50			
			5	14.46	5.23			
			6	14.82	5.59			
			8	14.94	5.71			
			10	15.12	5.89			
			15	15.30	6.07			
			20	15.51	6.28			
			25	15.88	6.65			
			30	16.06	6.83			
			35	16.33	7.10			
			40	16.61	7.38			
			45	16.85	7.62			
			50	17.03	7.80			
			55	17.11	7.88			
	8:00	1	60	17.40	8.17			
			70	17.61	8.38			
			80	17.81	8.58			
			90	18.02	8.79			
			100	18.24	9.01			
			110	18.47	9.24			
	9:00	2	120	18.79	9.56			
			140	18.99	9.76			
			160	19.18	9.95			
	10:00	3	180	19.41	10.18			
			210	19.78	10.55			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T6) DATA SHEET No. : 2/2**

Date: 10-11/Nov./2005

Location: Buhima Village, Ukerewe District, Mwanza Region Site No.: Ukerewe 73
 GPS Reading: 493527 E, 9775450 N
 Well No.: T6 Well Depth: 86.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 77.12-83.04 m
 Static Groundwater Level: GL- 9.23 m Screen Length: 5.92 m
 Pump Type: Submersible Pump
 Pump Setting: 75.00 m, Discharge (Q): 120 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	11:00	4	240	20.22	10.99			
			270	21.00	11.77			
	12:00	5	300	22.67	13.44			
			330	24.32	15.09			
	13:00	6	360	26.09	16.86			
	14:00	7	420	27.99	18.76			
	15:00	8	480	29.82	20.59			
	16:00	9	540	31.91	22.68			
	17:00	10	600	33.98	24.75			
	18:00	11	660	36.12	26.89			
	19:00	12	720	39.38	30.15			
	20:00	13	780	42.14	32.91			
	21:00	14	840	44.87	35.64			
	22:00	15	900	46.68	37.45			
	23:00	16	960	48.91	39.68			
11-Nov-05	1:00	18	1080	50.88	41.65			
	3:00	20	1200	52.69	43.46			
	4:00	21	1260	54.89	45.66			
	5:00	22	1320	57.88	48.65			
	7:00	24	1440	60.99	51.76			
	10:00	27	1590	67.95	58.72			
	13:00	30	1800	75.00	65.77	Stop		
		33	1980					
		36	2160					
		39	2340					
		42	2520					
		45	2700					
		48	2880					

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**RECOVERY TEST DATA SHEET
PUMPED WELL (T6) DATA SHEET No. : 1/2**

Date: 11-12/Nov./2005

Location: Buhima Village, Ukerewe District, Mwanza Region Site No.: Ukerewe 73
 GPS Reading: 493527 E, 9775450 N
 Well No.: T6 Well Depth: 86.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 77.12-83.04 m
 Static Groundwater Level: GL- 9.23 m Screen Length: 5.92 m
 Pump Type: Submersible Pump
 Pump Setting: 75.00 m, Discharge (Q): 120 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s] (m)
		(hour)	(min)				
11-Nov-05	13:00		0	1800		75.00	65.77
			1	1801	1801.000	71.09	61.86
			2	1802	901.000	68.03	58.80
			4	1804	451.000	66.12	56.89
			6	1806	301.000	64.00	54.77
			8	1808	226.000	61.93	52.70
			10	1810	181.000	59.86	50.63
			12	1812	151.000	58.60	49.37
			14	1814	129.571	57.79	48.56
			16	1816	113.500	56.65	47.42
			18	1818	101.000	55.04	45.81
			20	1820	91.000	54.18	44.95
			25	1825	73.000	52.70	43.47
			30	1830	61.000	51.06	41.83
			35	1835	52.429	49.74	40.51
			40	1840	46.000	47.99	38.76
			45	1845	41.000	45.40	36.17
			50	1850	37.000	43.38	34.15
	14:00	1	60	1860	31.000	41.40	32.17
			70	1870	26.714	39.11	29.88
			80	1880	23.500	37.91	28.68
			90	1890	21.000	35.76	26.53
			100	1900	19.000	33.95	24.72
			110	1910	17.364	32.00	22.77
	15:00	2	120	1920	16.000	30.76	21.53
			150	1950	13.000	27.82	18.59
	16:00	3	180	1980	11.000	25.26	16.03
			210	2010	9.571	24.11	14.88
	17:00	4	240	2040	8.500	22.93	13.70
			270	2070	7.667	21.39	12.16
	18:00	5	300	2100	7.000	19.86	10.63
			330	2130	6.455	18.65	9.42
	19:00	6	360	2160	6.000	17.47	8.24
			390	2190	5.615	16.31	7.08
	20:00	7	420	2220	5.286	15.15	5.92
			450	2250	5.000	13.99	4.76
	21:00	8	480	2280	4.750	12.87	3.64
	22:00	9	540	2340	4.333	11.76	2.53
	23:00	10	600	2400	4.000	10.62	1.39
12-Nov-05	0:00	11	660	2460	3.727	9.52	0.29
	1:00	12	720	2520	3.500	9.23	0.00

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-11/Oct./2005

STEP No. : 1/9

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33
 GPS Reading: 605574 E, 9778322 N
 Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 21.08-24.04 m
 Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m
 Pump Type: Submersible Pump
 Pump Setting: 25.00 m, Discharge (Q): 2,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Oct-05	10:00	0	0	3.77				
			1	3.90	0.13			
			2	3.95	0.18			
			4	4.05	0.28			
			6	4.08	0.31	103.0	8.58	27.5
			8	4.20	0.43			
			10	4.33	0.56			
			12	4.41	0.64			
			14	4.46	0.69			
			16	4.56	0.79			
			18	4.68	0.91			
			20	4.79	1.02			
			25	5.05	1.28			
			30	5.37	1.60			
			35	5.41	1.64			
			40	5.52	1.75			
			45	5.64	1.87			
			50	5.70	1.93			
			55	5.82	2.05			
	11:00	1	60	5.89	2.12			
			70	6.05	2.28			
			80	6.17	2.40			
			90	6.27	2.50			
			100	6.38	2.61			
			110	6.43	2.66			
	12:00	2	120	6.48	2.71			
			130	6.58	2.81			
			140	6.62	2.85			
			150	6.63	2.86			
			160	6.65	2.88			
			170	6.67	2.90			
	13:00	3	180	6.69	2.92			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-11/Oct./2005

STEP No. : 2/9

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33
 GPS Reading: 605574 E, 9778322 N
 Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 21.08-24.04 m
 Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m
 Pump Type: Submersible Pump
 Pump Setting: 25.00 m, Discharge (Q): 2,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Oct-05	13:00	0	0	6.69	2.92			
			1	6.70	2.93			
			2	6.75	2.98			
			4	6.80	3.03			
			6	6.84	3.07			
			8	7.02	3.25			
			10	7.04	3.27			
			12	7.06	3.29			
			14	7.10	3.33			
			16	7.14	3.37			
			18	7.16	3.39			
			20	7.18	3.41			
			25	7.23	3.46			
			30	7.26	3.49			
			35	7.30	3.53			
			40	7.35	3.58			
			45	7.37	3.60			
			50	7.40	3.63			
			55	7.41	3.64			
	14:00	1	60	7.44	3.67			
			70	7.49	3.72			
			80	7.50	3.73			
			90	7.51	3.74			
			100	7.53	3.76			
			110	7.54	3.77			
	15:00	2	120	7.55	3.78			
			130	7.56	3.79			
			140	7.57	3.80			
			150	7.58	3.81			
			160	7.59	3.82			
			170	7.60	3.83			
	16:00	3	180	7.61	3.84			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-11/Oct./2005

STEP No. : 3/9

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33
 GPS Reading: 605574 E, 9778322 N
 Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 21.08-24.04 m
 Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m
 Pump Type: Submersible Pump
 Pump Setting: 25.00 m, Discharge (Q): 3,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Oct-05	16:00	0	0	7.61	3.84			
			1	7.62	3.85			
			2	7.64	3.87			
			4	7.68	3.91			
			6	7.72	3.95			
			8	7.76	3.99			
			10	7.77	4.00			
			12	7.79	4.02			
			14	7.81	4.04			
			16	7.86	4.09			
			18	7.94	4.17			
			20	8.02	4.25			
			25	8.12	4.35			
			30	8.67	4.90			
			35	8.94	5.17			
			40	9.09	5.32			
			45	9.31	5.54			
			50	9.50	5.73			
			55	9.66	5.89			
	17:00	1	60	9.82	6.05			
			70	9.97	6.20			
			80	10.05	6.28			
			90	10.05	6.28			
			100	10.05	6.28			
			110	10.05	6.28			
	18:00	2	120	10.05	6.28			
			130	10.05	6.28			
			140	10.05	6.28			
			150	10.05	6.28			
			160	10.05	6.28			
			170	10.05	6.28			
	19:00	3	180	10.05	6.28			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-11/Oct./2005

STEP No. : 4/9

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33

GPS Reading: 605574 E, 9778322 N

Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 21.08-24.04 m

Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m

Pump Type: Submersible Pump

Pump Setting: 25.00 m, Discharge (Q): 4,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Oct-05	19:00	0	0	10.05	6.28			
			1	10.15	6.38			
			2	10.26	6.49			
			4	10.32	6.55			
			6	10.33	6.56			
			8	10.36	6.59			
			10	10.39	6.62			
			12	10.42	6.65			
			14	10.45	6.68			
			16	10.47	6.70			
			18	10.48	6.71			
			20	10.48	6.71			
			25	10.48	6.71			
			30	10.48	6.71			
			35	10.50	6.73			
			40	10.52	6.75			
			45	10.54	6.77			
			50	10.56	6.79			
			55	10.57	6.80			
	20:00	1	60	10.59	6.82			
			70	10.60	6.83			
			80	10.64	6.87			
			90	10.80	7.03			
			100	11.01	7.24			
			110	11.20	7.43			
	21:00	2	120	11.52	7.75			
			130	11.75	7.98			
			140	11.92	8.15			
			150	12.01	8.24			
			160	12.10	8.33			
			170	12.22	8.45			
	22:00	3	180	12.30	8.53			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-11/Oct./2005

STEP No. : 5/9

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33

GPS Reading: 605574 E, 9778322 N

Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 21.08-24.04 m

Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m

Pump Type: Submersible Pump

Pump Setting: 25.00 m, Discharge (Q): 5,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Oct-05	22:00	0	0	12.30	8.53			
			1	12.35	8.58			
			2	12.38	8.61			
			4	12.44	8.67			
			6	12.53	8.76			
			8	12.56	8.79			
			10	12.60	8.83			
			12	12.64	8.87			
			14	12.67	8.90			
			16	12.69	8.92			
			18	12.76	8.99			
			20	12.80	9.03			
			25	12.85	9.08			
			30	12.90	9.13			
			35	13.01	9.24			
			40	13.05	9.28			
			45	13.09	9.32			
			50	13.12	9.35			
			55	13.17	9.40			
	23:00	1	60	13.20	9.43			
			70	13.28	9.51			
			80	13.36	9.59			
			90	13.43	9.66			
			100	13.44	9.67			
			110	13.44	9.67			
11-Oct-05	0:00	2	120	13.44	9.67			
			130	13.44	9.67			
			140	13.44	9.67			
			150	13.44	9.67			
			160	13.44	9.67			
			170	13.44	9.67			
	1:00	3	180	13.44	9.67			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-11/Oct./2005

STEP No. : 6/9

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33

GPS Reading: 605574 E, 9778322 N

Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 21.08-24.04 m

Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m

Pump Type: Submersible Pump

Pump Setting: 25.00 m, Discharge (Q): 4,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
11-Oct-05	1:00	0	0	13.44	9.67			
			1	13.30	9.53			
			2	13.17	9.40			
			4	12.95	9.18			
			6	12.86	9.09			
			8	12.76	8.99			
			10	12.66	8.89			
			12	12.57	8.80			
			14	12.45	8.68			
			16	12.36	8.59			
			18	12.27	8.50			
			20	12.19	8.42			
			25	11.96	8.19			
			30	11.75	7.98			
			35	11.53	7.76			
			40	11.30	7.53			
			45	11.10	7.33			
			50	10.89	7.12			
			55	10.75	6.98			
	2:00	1	60	10.54	6.77			
			70	10.25	6.48			
			80	10.04	6.27			
			90	9.87	6.10			
			100	9.70	5.93			
			110	9.56	5.79			
	3:00	2	120	9.40	5.63			
			130	9.26	5.49			
			140	9.18	5.41			
			150	9.07	5.30			
			160	8.92	5.15			
			170	8.88	5.11			
	4:00	3	180	8.84	5.07			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-11/Oct./2005

STEP No. : 7/9

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33

GPS Reading: 605574 E, 9778322 N

Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 21.08-24.04 m

Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m

Pump Type: Submersible Pump

Pump Setting: 25.00 m, Discharge (Q): 3,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
11-Oct-05	4:00	0	0	8.84	5.07			
			1	8.80	5.03			
			2	8.78	5.01			
			4	8.75	4.98			
			6	8.70	4.93			
			8	8.67	4.90			
			10	8.64	4.87			
			12	8.61	4.84			
			14	8.46	4.69			
			16	8.30	4.53			
			18	8.23	4.46			
			20	8.16	4.39			
			25	7.96	4.19			
			30	7.80	4.03			
			35	7.64	3.87			
			40	7.50	3.73			
			45	7.36	3.59			
			50	7.25	3.48			
			55	7.16	3.39			
	5:00	1	60	7.05	3.28			
			70	6.91	3.14			
			80	6.80	3.03			
			90	6.72	2.95			
			100	6.64	2.87			
			110	6.56	2.79			
	6:00	2	120	6.49	2.72			
			130	6.47	2.70			
			140	6.44	2.67			
			150	6.41	2.64			
			160	6.38	2.61			
			170	6.36	2.59			
	7:00	3	180	6.33	2.56			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-11/Oct./2005

STEP No. : 8/9

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33

GPS Reading: 605574 E, 9778322 N

Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 21.08-24.04 m

Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m

Pump Type: Submersible Pump

Pump Setting: 25.00 m, Discharge (Q): 1,200 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
11-Oct-05	7:00	0	0	6.33	2.56			
			1	6.31	2.54			
			2	6.39	2.62			
			4	6.28	2.51			
			6	6.27	2.50			
			8	6.26	2.49			
			10	6.25	2.48			
			12	6.24	2.47			
			14	6.23	2.46			
			16	6.22	2.45			
			18	6.20	2.43			
			20	6.19	2.42			
			25	6.17	2.40			
			30	6.12	2.35			
			35	6.06	2.29			
			40	6.00	2.23			
			45	5.94	2.17			
			50	5.88	2.11			
			55	5.85	2.08			
	8:00	1	60	5.83	2.06			
			70	5.76	1.99			
			80	5.72	1.95			
			90	5.66	1.89			
			100	5.61	1.84			
			110	5.57	1.80			
	9:00	2	120	5.53	1.76			
			130	5.49	1.72			
			140	5.45	1.68			
			150	5.42	1.65			
			160	5.40	1.63			
			170	5.38	1.61			
	10:00	3	180	5.37	1.60			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 10-11/Oct./2005

STEP No. : 9/9

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33
 GPS Reading: 605574 E, 9778322 N
 Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 21.08-24.04 m
 Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m
 Pump Type: Submersible Pump
 Pump Setting: 25.00 m, Discharge (Q): 900 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
11-Oct-05	10:00	0	0	5.37	1.60			
			1	5.36	1.59			
			2	5.35	1.58			
			4	5.34	1.57			
			6	5.33	1.56			
			8	5.32	1.55			
			10	5.31	1.54			
			12	5.30	1.53			
			14	5.29	1.52			
			16	5.28	1.51			
			18	5.26	1.49			
			20	5.25	1.48			
			25	5.24	1.47			
			30	5.22	1.45			
			35	5.20	1.43			
			40	5.18	1.41			
			45	5.15	1.38			
			50	5.11	1.34			
			55	5.06	1.29			
	11:00	1	60	5.01	1.24			
			70	4.92	1.15			
			80	4.85	1.08			
			90	4.80	1.03			
			100	4.76	0.99			
			110	4.72	0.95			
	12:00	2	120	4.69	0.92			
			130	4.67	0.90			
			140	4.65	0.88			
			150	4.63	0.86			
			160	4.61	0.84			
			170	4.59	0.82			
	13:00	3	180	4.57	0.80			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T7) DATA SHEET No. : 1/2

Date: 11-13/Oct./2005

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33
 GPS Reading: 605574 E, 9778322 N
 Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 21.08-24.04 m
 Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m
 Pump Type: Submersible Pump
 Pump Setting: 25.00 m, Discharge (Q): 5,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
11-Oct-05	14:55		0	3.77	0			
			1	3.96	0.19			
			2	4.31	0.54			
			3	4.52	0.75			
			4	4.70	0.93			
			5	4.93	1.16			
			6	5.06	1.29			
			8	5.23	1.46			
			10	5.64	1.87			
			15	6.15	2.38			
			20	6.59	2.82			
			25	6.93	3.16			
			30	7.25	3.48			
			35	7.50	3.73			
			40	7.68	3.91			
			45	7.87	4.10			
			50	8.02	4.25			
			55	8.20	4.43			
	15:55	1	60	8.32	4.55			
			70	8.65	4.88			
			80	9.37	5.60			
			90	9.80	6.03			
			100	10.07	6.30			
			110	10.32	6.55			
	16:55	2	120	10.51	6.74			
			140	10.99	7.22			
			160	11.48	7.71			
	17:55	3	180	11.89	8.12			
			210	12.20	8.43			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T7) DATA SHEET No. : 2/2**

Date: 11-13/Oct./2005

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33
 GPS Reading: 605574 E, 9778322 N
 Well No.: T7 Well Depth: 27.00 m, Well Diameter: 6.00 "
 Screen Depth(s): 21.08-24.04 m
 Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m
 Pump Type: Submersible Pump
 Pump Setting: 25.00 m, Discharge (Q): 5,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	18:55	4	240	12.55	8.78			
			270	13.38	9.61			
	19:55	5	300	13.80	10.03			
			330	13.85	10.08			
	20:55	6	360	14.03	10.26			
	21:55	7	420	14.29	10.52			
	22:55	8	480	14.49	10.72			
	23:55	9	540	14.60	10.83			
12-Oct-05	0:55	10	600	14.70	10.93			
	1:55	11	660	14.80	11.03			
	2:55	12	720	14.98	11.21			
	3:55	13	780	15.02	11.25			
	4:55	14	840	15.13	11.36			
	5:55	15	900	15.42	11.65			
	6:55	16	960	15.59	11.82			
	8:55	18	1080	16.05	12.28			
	10:55	20	1200	16.41	12.64			
	11:55	21	1260	16.75	12.98			
	12:55	22	1320	16.99	13.22			
	14:55	24	1440	17.27	13.50			
	17:55	27	1590	17.40	13.63			
	20:55	30	1800	17.40	13.63			
	23:55	33	1980	17.40	13.63			
13-Oct-05	2:55	36	2160	17.40	13.63			
	5:55	39	2340	17.40	13.63			
	8:55	42	2520	17.40	13.63			
	11:55	45	2700	17.40	13.63			
	14:55	48	2880	17.40	13.63			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**RECOVERY TEST DATA SHEET
PUMPED WELL (T7) DATA SHEET No. : 1/2**

Date: 13-14/Oct./2005

Location: Mcharo Village, Bunda District, Mara Region Site No.: Bunda 33
 GPS Reading: 605574 E, 9778322 N
 Well No.: T7 Well Depth: 27.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 21.08-24.04 m
 Static Groundwater Level: GL- 3.77 m Screen Length: 2.96 m
 Pump Type: Submersible Pump
 Pump Setting: 25.00 m, Discharge (Q): 5,000 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s'] (m)
		(hour)	(min)				
13-Oct-05	14:55		0	2880		17.40	13.63
			1	2881	2881.000	16.30	12.53
			2	2882	1441.000	14.90	11.13
			4	2884	721.000	14.24	10.47
			6	2886	481.000	13.73	9.96
			8	2888	361.000	13.35	9.58
			10	2890	289.000	13.19	9.42
			12	2892	241.000	12.98	9.21
			14	2894	206.714	12.76	8.99
			16	2896	181.000	12.42	8.65
			18	2898	161.000	12.05	8.28
			20	2900	145.000	11.75	7.98
			25	2905	116.200	11.50	7.73
			30	2910	97.000	11.10	7.33
			35	2915	83.286	10.80	7.03
			40	2920	73.000	10.39	6.62
			45	2925	65.000	10.12	6.35
			50	2930	58.600	9.79	6.02
	15:55	1	60	2940	49.000	9.46	5.69
			70	2950	42.143	9.14	5.37
			80	2960	37.000	8.85	5.08
			90	2970	33.000	8.42	4.65
			100	2980	29.800	8.08	4.31
			110	2990	27.182	7.82	4.05
	16:55	2	120	3000	25.000	7.41	3.64
			150	3030	20.200	6.60	2.83
	17:55	3	180	3060	17.000	6.05	2.28
			210	3090	14.714	5.53	1.76
	18:55	4	240	3120	13.000	4.99	1.22
			270	3150	11.667	4.56	0.79
	19:55	5	300	3180	10.600	4.30	0.53
			330	3210	9.727	4.27	0.50
	20:55	6	360	3240	9.000	4.15	0.38
			390	3270	8.385	4.08	0.31
	21:55	7	420	3300	7.857	3.98	0.21
			450	3330	7.400	3.90	0.13
	22:55	8	480	3360	7.000	3.86	0.09
	23:55	9	540	3420	6.333	3.81	0.04
14-Oct-05	0:55	10	600	3480	5.800	3.79	0.02
	1:55	11	660	3540	5.364	3.78	0.01
	2:55	12	720	3600	5.000	3.77	0.00

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 23-25/Oct./2005

STEP No. : 1/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 1,800 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
23-Oct-05	23:15	0	0	9.00				
			1	9.72	0.72			
			2	10.44	1.44			
			4	10.70	1.70			
			6	10.81	1.81			
			8	10.85	1.85			
			10	10.90	1.90			
			12	10.91	1.91			
			14	10.94	1.94			
			16	11.00	2.00			
			18	11.10	2.10			
			20	11.33	2.33			
			25	11.70	2.70			
			30	11.80	2.80			
			35	11.82	2.82			
			40	11.84	2.84			
			45	11.86	2.86			
			50	11.88	2.88			
			55	11.90	2.90			
24-Oct-05	0:15	1	60	11.92	2.92			
			70	11.93	2.93			
			80	11.93	2.93			
			90	11.93	2.93			
			100	11.93	2.93			
			110	11.93	2.93			
	1:15	2	120	11.93	2.93			
			130	11.93	2.93			
			140	11.93	2.93			
			150	11.93	2.93			
			160	11.93	2.93			
			170	11.94	2.94			
	2:15	3	180	11.95	2.95			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 23-25/Oct./2005

STEP No. : 2/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 2,400 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
24-Oct-05	2:15	0	0	11.95	2.95			
			1	12.23	3.23			
			2	12.38	3.38			
			4	12.56	3.56			
			6	12.71	3.71			
			8	12.77	3.77			
			10	12.80	3.80			
			12	12.89	3.89			
			14	12.91	3.91			
			16	12.93	3.93			
			18	12.95	3.95			
			20	12.97	3.97			
			25	13.00	4.00			
			30	13.03	4.03			
			35	13.04	4.04			
			40	13.05	4.05			
			45	13.06	4.06			
			50	13.07	4.07			
			55	13.08	4.08			
	3:15	1	60	13.09	4.09			
			70	13.13	4.13			
			80	13.15	4.15			
			90	13.17	4.17			
			100	13.19	4.19			
			110	13.21	4.21			
	4:15	2	120	13.22	4.22			
			130	13.23	4.23			
			140	13.24	4.24			
			150	13.25	4.25			
			160	13.26	4.26			
			170	13.27	4.27			
	5:15	3	180	13.29	4.29			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 23-25/Oct./2005

STEP No. : 3/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 3,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
24-Oct-05	5:15	0	0	13.29	4.29			
			1	13.35	4.35			
			2	13.37	4.37			
			4	13.38	4.38			
			6	13.39	4.39			
			8	13.40	4.40			
			10	13.41	4.41			
			12	13.42	4.42			
			14	13.43	4.43			
			16	13.44	4.44			
			18	13.45	4.45			
			20	13.46	4.46			
			25	13.49	4.49			
			30	13.53	4.53			
			35	13.58	4.58			
			40	13.62	4.62			
			45	13.66	4.66			
			50	13.70	4.70			
			55	13.74	4.74			
	6:15	1	60	13.78	4.78			
			70	13.86	4.86			
			80	13.95	4.95			
			90	14.03	5.03			
			100	14.11	5.11			
			110	14.17	5.17			
	7:15	2	120	14.23	5.23			
			130	14.30	5.30			
			140	14.32	5.32			
			150	14.33	5.33			
			160	14.33	5.33			
			170	14.33	5.33			
	8:15	3	180	14.33	5.33			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 23-25/Oct./2005

STEP No. : 4/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 4,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
24-Oct-05	8:15	0	0	14.33	5.33			
			1	14.76	5.76			
			2	14.95	5.95			
			4	15.34	6.34			
			6	15.49	6.49			
			8	15.74	6.74			
			10	15.85	6.85			
			12	15.96	6.96			
			14	16.03	7.03			
			16	16.12	7.12			
			18	16.26	7.26			
			20	16.35	7.35			
			25	16.45	7.45			
			30	16.55	7.55			
			35	16.65	7.65			
			40	16.74	7.74			
			45	16.82	7.82			
			50	16.90	7.90			
			55	16.96	7.96			
	9:15	1	60	17.00	8.00			
			70	17.05	8.05			
			80	17.07	8.07			
			90	17.09	8.09			
			100	17.11	8.11			
			110	17.12	8.12			
	10:15	2	120	17.13	8.13			
			130	17.14	8.14			
			140	17.14	8.14			
			150	17.14	8.14			
			160	17.14	8.14			
			170	17.14	8.14			
	11:15	3	180	17.14	8.14			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 23-25/Oct./2005

STEP No. : 5/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 5,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
24-Oct-05	11:15	0	0	17.14	8.14			
			1	17.68	8.68			
			2	18.12	9.12			
			4	18.48	9.48			
			6	18.84	9.84			
			8	19.08	10.08			
			10	19.25	10.25			
			12	19.38	10.38			
			14	19.51	10.51			
			16	19.57	10.57			
			18	19.70	10.70			
			20	19.85	10.85			
			25	20.30	11.30			
			30	20.45	11.45			
			35	20.60	11.60			
			40	20.75	11.75			
			45	20.83	11.83			
			50	20.95	11.95			
			55	21.25	12.25			
	12:15	1	60	21.47	12.47			
			70	21.89	12.89			
			80	22.35	13.35			
			90	22.97	13.97			
			100	23.25	14.25			
			110	23.36	14.36			
	13:15	2	120	23.44	14.44			
			130	23.45	14.45			
			140	23.45	14.45			
			150	23.45	14.45			
			160	23.45	14.45			
			170	23.45	14.45			
	14:15	3	180	23.45	14.45			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 23-25/Oct./2005

STEP No. : 6/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 4,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
24-Oct-05	14:15	0	0	23.45	14.45			
			1	22.87	13.87			
			2	22.71	13.71			
			4	22.45	13.45			
			6	22.18	13.18			
			8	21.90	12.90			
			10	21.59	12.59			
			12	21.35	12.35			
			14	21.06	12.06			
			16	20.85	11.85			
			18	20.60	11.60			
			20	20.40	11.40			
			25	19.93	10.93			
			30	19.68	10.68			
			35	19.48	10.48			
			40	19.25	10.25			
			45	19.14	10.14			
			50	19.05	10.05			
			55	18.87	9.87			
	15:15	1	60	18.65	9.65			
			70	18.35	9.35			
			80	18.15	9.15			
			90	18.03	9.03			
			100	17.90	8.90			
			110	17.79	8.79			
	16:15	2	120	17.66	8.66			
			130	17.54	8.54			
			140	17.42	8.42			
			150	17.30	8.30			
			160	17.19	8.19			
			170	17.08	8.08			
	17:15	3	180	16.95	7.95			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 23-25/Oct./2005

STEP No. : 7/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 3,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
24-Oct-05	17:15	0	0	16.95	7.95			
			1	16.83	7.83			
			2	16.72	7.72			
			4	16.60	7.60			
			6	16.53	7.53			
			8	16.45	7.45			
			10	16.37	7.37			
			12	16.26	7.26			
			14	16.17	7.17			
			16	16.06	7.06			
			18	15.95	6.95			
			20	15.87	6.87			
			25	15.73	6.73			
			30	15.57	6.57			
			35	15.49	6.49			
			40	15.40	6.40			
			45	15.35	6.35			
			50	15.29	6.29			
			55	15.23	6.23			
	18:15	1	60	15.16	6.16			
			70	15.07	6.07			
			80	14.98	5.98			
			90	14.89	5.89			
			100	14.78	5.78			
			110	14.70	5.70			
	19:15	2	120	14.61	5.61			
			130	14.54	5.54			
			140	14.45	5.45			
			150	14.37	5.37			
			160	14.31	5.31			
			170	14.25	5.25			
	20:15	3	180	14.20	5.20			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 23-25/Oct./2005

STEP No. : 8/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 2,400 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
24-Oct-05	20:15	0	0	14.20	5.20			
			1	14.13	5.13			
			2	14.05	5.05			
			4	14.00	5.00			
			6	13.95	4.95			
			8	13.90	4.90			
			10	13.85	4.85			
			12	13.80	4.80			
			14	13.75	4.75			
			16	13.72	4.72			
			18	13.66	4.66			
			20	13.61	4.61			
			25	13.52	4.52			
			30	13.40	4.40			
			35	13.35	4.35			
			40	13.28	4.28			
			45	13.25	4.25			
			50	13.20	4.20			
			55	13.15	4.15			
	21:15	1	60	13.10	4.10			
			70	13.05	4.05			
			80	13.00	4.00			
			90	12.98	3.98			
			100	12.95	3.95			
			110	12.92	3.92			
	22:15	2	120	12.88	3.88			
			130	12.85	3.85			
			140	12.83	3.83			
			150	12.80	3.80			
			160	12.78	3.78			
			170	12.76	3.76			
	23:15	3	180	12.74	3.74			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 23-25/Oct./2005

STEP No. : 9/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 1,800 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
24-Oct-05	23:15	0	0	12.74	3.74			
			1	12.68	3.68			
			2	12.64	3.64			
			4	12.59	3.59			
			6	12.55	3.55			
			8	12.50	3.50			
			10	12.46	3.46			
			12	12.42	3.42			
			14	12.37	3.37			
			16	12.31	3.31			
			18	12.25	3.25			
			20	12.20	3.20			
			25	12.15	3.15			
			30	12.10	3.10			
			35	12.05	3.05			
			40	11.99	2.99			
			45	11.95	2.95			
			50	11.89	2.89			
			55	11.83	2.83			
25-Oct-05	0:15	1	60	11.79	2.79			
			70	11.65	2.65			
			80	11.54	2.54			
			90	11.37	2.37			
			100	11.25	2.25			
			110	11.16	2.16			
	1:15	2	120	11.05	2.05			
			130	10.97	1.97			
			140	10.88	1.88			
			150	10.79	1.79			
			160	10.73	1.73			
			170	10.67	1.67			
	2:15	3	180	10.59	1.59			

**THE SYDYU ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T8) DATA SHEET No. : 1/2**

Date: 25-27/Oct./2005

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35
 GPS Reading: 576858 E, 9792662 N
 Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 65.20-77.04 m
 Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m
 Pump Type: Submersible Pump
 Pump Setting: 60.00 m, Discharge (Q): 3,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
25-Oct-05	3:00		0	9.00	0			
			1	11.31	2.31			
			2	12.69	3.69			
			3	13.24	4.24			
			4	13.55	4.55			
			5	14.03	5.03			
			6	14.33	5.33			
			8	14.90	5.90			
			10	15.38	6.38			
			15	16.19	7.19			
			20	16.80	7.80			
			25	17.71	8.71			
			30	18.85	9.85			
			35	19.78	10.78			
			40	20.91	11.91			
			45	21.45	12.45			
			50	21.84	12.84			
			55	22.23	13.23			
	4:00	1	60	22.69	13.69			
			70	23.14	14.14			
			80	23.42	14.42			
			90	23.66	14.66			
			100	23.88	14.88			
			110	24.05	15.05			
	5:00	2	120	24.26	15.26			
			140	24.44	15.44			
			160	24.72	15.72			
	6:00	3	180	24.87	15.87			
			210	26.06	17.06			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T8) DATA SHEET No. : 2/2**

Date: 25-27/Oct./2005

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35
 GPS Reading: 576858 E, 9792662 N
 Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 65.20-77.04 m
 Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m
 Pump Type: Submersible Pump
 Pump Setting: 60.00 m, Discharge (Q): 3,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	7:00	4	240	27.70	18.70			
			270	29.65	20.65			
	8:00	5	300	30.55	21.55			
			330	32.41	23.41			
	9:00	6	360	33.05	24.05			
	10:00	7	420	33.25	24.25			
	11:00	8	480	33.43	24.43			
	12:00	9	540	33.55	24.55			
12-Oct-05	13:00	10	600	34.48	25.48			
	14:00	11	660	34.75	25.75			
	15:00	12	720	34.99	25.99			
	16:00	13	780	35.23	26.23			
	17:00	14	840	35.35	26.35			
	18:00	15	900	35.57	26.57			
	19:00	16	960	35.61	26.61			
	21:00	18	1080	35.68	26.68			
	23:00	20	1200	35.73	26.73			
26-Oct-05	0:00	21	1260	35.77	26.77			
	1:00	22	1320	35.82	26.82			
	3:00	24	1440	35.85	26.85			
	6:00	27	1590	35.87	26.87			
	9:00	30	1800	35.89	26.89			
	12:00	33	1980	35.89	26.89			
	15:00	36	2160	35.89	26.89			
	18:00	39	2340	35.89	26.89			
	21:00	42	2520	35.89	26.89			
27-Oct-05	0:00	45	2700	35.89	26.89			
	3:00	48	2880	35.89	26.89			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

RECOVERY TEST DATA SHEET

Date: 27/Oct./2005

PUMPED WELL (T8) DATA SHEET No. : 1/2

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 35

GPS Reading: 576858 E, 9792662 N

Well No.: T8 Well Depth: 80.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 65.20-77.04 m

Static Groundwater Level: GL- 9.00 m Screen Length: 11.84 m

Pump Type: Submersible Pump

Pump Setting: 60.00 m, Discharge (Q): 3,000 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s] (m)
		(hour)	(min)				
27-Oct-05	3:00		0	2880		35.89	26.89
			1	2881	2881.000	32.15	23.15
			2	2882	1441.000	30.75	21.75
			4	2884	721.000	28.70	19.70
			6	2886	481.000	26.99	17.99
			8	2888	361.000	24.86	15.86
			10	2890	289.000	22.77	13.77
			12	2892	241.000	20.45	11.45
			14	2894	206.714	19.36	10.36
			16	2896	181.000	17.45	8.45
			18	2898	161.000	16.57	7.57
			20	2900	145.000	15.29	6.29
			25	2905	116.200	14.43	5.43
			30	2910	97.000	13.56	4.56
			35	2915	83.286	13.15	4.15
			40	2920	73.000	13.08	4.08
			45	2925	65.000	12.71	3.71
			50	2930	58.600	12.46	3.46
	4:00	1	60	2940	49.000	12.32	3.32
			70	2950	42.143	12.14	3.14
			80	2960	37.000	11.89	2.89
			90	2970	33.000	11.65	2.65
			100	2980	29.800	11.45	2.45
			110	2990	27.182	11.35	2.35
	5:00	2	120	3000	25.000	10.74	1.74
			150	3030	20.200	10.11	1.11
	6:00	3	180	3060	17.000	9.44	0.44
			210	3090	14.714	9.03	0.03
	7:00	4	240	3120	13.000	9.00	0.00
			270	3150	11.667		
		5	300	3180	10.600		
			330	3210	9.727		
		6	360	3240	9.000		
			390	3270	8.385		
		7	420	3300	7.857		
			450	3330	7.400		
		8	480	3360	7.000		
		9	540	3420	6.333		
		10	600	3480	5.800		
		11	660	3540	5.364		
		12	720	3600	5.000		

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 14-15/Nov./2005

STEP No. : 1/9

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133

GPS Reading: 622764 E, 9866796 N

Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 81.12-87.04 m

Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 85.00 m, Discharge (Q): 170 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
14-Nov-05	7:15	0	0	12.58				
			1	13.08	0.50			
			2	13.29	0.71			
			4	13.48	0.90			
			6	13.90	1.32			
			8	14.09	1.51			
			10	14.11	1.53			
			12	14.20	1.62			
			14	14.36	1.78			
			16	14.48	1.90			
			18	14.61	2.03			
			20	14.82	2.24			
			25	15.23	2.65			
			30	15.55	2.97			
			35	15.97	3.39			
			40	16.18	3.60			
			45	16.35	3.77			
			50	16.52	3.94			
			55	16.64	4.06			
24-Oct-05	0:15	1	60	16.78	4.20			
			70	16.92	4.34			
			80	17.05	4.47			
			90	17.15	4.57			
			100	17.30	4.72			
			110	17.39	4.81			
	1:15	2	120	17.47	4.89			
			130	17.62	5.04			
			140	17.70	5.12			
			150	17.78	5.20			
			160	17.85	5.27			
			170	17.92	5.34			
	2:15	3	180	18.00	5.42			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 14-15/Nov./2005

STEP No. : 2/9

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133

GPS Reading: 622764 E, 9866796 N

Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 81.12-87.04 m

Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 85.00 m, Discharge (Q): 200 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
14-Nov-05	10:15	0	0	18.00	5.42			
			1	18.13	5.55			
			2	18.30	5.72			
			4	18.61	6.03			
			6	18.88	6.30			
			8	19.06	6.48			
			10	19.24	6.66			
			12	19.44	6.86			
			14	19.61	7.03			
			16	19.79	7.21			
			18	19.98	7.40			
			20	20.16	7.58			
			25	20.45	7.87			
			30	20.65	8.07			
			35	20.91	8.33			
			40	21.28	8.70			
			45	21.58	9.00			
			50	21.90	9.32			
			55	22.20	9.62			
	11:15	1	60	22.54	9.96			
			70	22.96	10.38			
			80	23.41	10.83			
			90	23.70	11.12			
			100	23.89	11.31			
			110	24.10	11.52			
	12:15	2	120	24.23	11.65			
			130	24.37	11.79			
			140	24.54	11.96			
			150	24.68	12.10			
			160	24.83	12.25			
			170	24.99	12.41			
	13:15	3	180	25.16	12.58			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 14-15/Nov./2005

STEP No. : 3/9

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133

GPS Reading: 622764 E, 9866796 N

Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 81.12-87.04 m

Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 85.00 m, Discharge (Q): 230 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
14-Nov-05	13:15	0	0	25.16	12.58			
			1	25.44	12.86			
			2	25.63	13.05			
			4	25.98	13.40			
			6	26.27	13.69			
			8	26.53	13.95			
			10	26.70	14.12			
			12	26.87	14.29			
			14	27.04	14.46			
			16	27.17	14.59			
			18	27.30	14.72			
			20	27.44	14.86			
			25	27.67	15.09			
			30	27.88	15.30			
			35	28.11	15.53			
			40	28.35	15.77			
			45	28.55	15.97			
			50	28.76	16.18			
			55	29.09	16.51			
	14:15	1	60	29.31	16.73			
			70	29.58	17.00			
			80	30.00	17.42			
			90	30.49	17.91			
			100	30.99	18.41			
			110	31.41	18.83			
	15:15	2	120	31.79	19.21			
			130	32.04	19.46			
			140	32.55	19.97			
			150	32.89	20.31			
			160	33.27	20.69			
			170	33.98	21.40			
	16:15	3	180	34.65	22.07			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 14-15/Nov./2005

STEP No. : 4/9

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133

GPS Reading: 622764 E, 9866796 N

Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 81.12-87.04 m

Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 85.00 m, Discharge (Q): 300 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
14-Nov-05	16:15	0	0	34.65	22.07			
			1	35.42	22.84			
			2	35.88	23.30			
			4	36.28	23.70			
			6	36.66	24.08			
			8	37.12	24.54			
			10	37.43	24.85			
			12	37.58	25.00			
			14	37.75	25.17			
			16	37.85	25.27			
			18	37.98	25.40			
			20	38.12	25.54			
			25	38.24	25.66			
			30	38.53	25.95			
			35	38.77	26.19			
			40	38.99	26.41			
			45	39.12	26.54			
			50	39.37	26.79			
			55	39.61	27.03			
	17:15	1	60	39.70	27.12			
			70	40.03	27.45			
			80	40.44	27.86			
			90	40.67	28.09			
			100	40.95	28.37			
			110	41.22	28.64			
	18:15	2	120	41.39	28.81			
			130	41.58	29.00			
			140	41.74	29.16			
			150	41.90	29.32			
			160	42.00	29.42			
			170	42.11	29.53			
	19:15	3	180	42.24	29.66			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 14-15/Nov./2005

STEP No. : 5/9

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133

GPS Reading: 622764 E, 9866796 N

Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 81.12-87.04 m

Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 85.00 m, Discharge (Q): 480 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
14-Nov-05	19:15	0	0	42.24	29.66			
			1	42.70	30.12			
			2	42.94	30.36			
			4	43.28	30.70			
			6	43.75	31.17			
			8	43.95	31.37			
			10	44.21	31.63			
			12	44.50	31.92			
			14	44.76	32.18			
			16	45.00	32.42			
			18	45.24	32.66			
			20	45.49	32.91			
			25	46.00	33.42			
			30	46.75	34.17			
			35	47.40	34.82			
			40	48.00	35.42			
			45	48.71	36.13			
			50	49.57	36.99			
			55	50.26	37.68			
	20:15	1	60	50.92	38.34			
			70	51.97	39.39			
			80	53.03	40.45			
			90	54.08	41.50			
			100	55.83	43.25			
			110	57.78	45.20			
	21:15	2	120	58.80	46.22			
			130	60.91	48.33			
			140	63.10	50.52			
			150	65.26	52.68			
			160	67.81	55.23			
			170	71.00	58.42			
	22:15	3	180	75.29	62.71			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 14-15/Nov./2005

STEP No. : 6/9

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133

GPS Reading: 622764 E, 9866796 N

Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 81.12-87.04 m

Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 85.00 m, Discharge (Q): 300 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
14-Nov-05	22:15	0	0	75.29	62.71			
			1	76.30	63.72			
			2	77.24	64.66			
			4	78.19	65.61			
			6	79.10	66.52			
			8	80.00	67.42			
			10	80.64	68.06			
			12	81.15	68.57			
			14	81.76	69.18			
			16	81.82	69.24			
			18	81.88	69.30			
			20	81.94	69.36			
			25	82.11	69.53			
			30	82.19	69.61			
			35	82.26	69.68			
			40	82.31	69.73			
			45	82.40	69.82			
			50	82.46	69.88			
			55	82.50	69.92			
	23:15	1	60	82.54	69.96			
			70	82.58	70.00			
			80	82.63	70.05			
			90	82.70	70.12			
			100	82.77	70.19			
			110	82.84	70.26			
15-Nov-05	0:15	2	120	82.89	70.31			
			130	82.95	70.37			
			140	82.99	70.41			
			150	83.04	70.46			
			160	83.09	70.51			
			170	83.14	70.56			
	1:15	3	180	83.19	70.61			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 14-15/Nov./2005

STEP No. : 7/9

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133

GPS Reading: 622764 E, 9866796 N

Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 81.12-87.04 m

Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 85.00 m, Discharge (Q): 230 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
15-Nov-05	1:15	0	0	83.19	70.61			
			1	83.20	70.62			
			2	83.20	70.62			
			4	83.20	70.62			
			6	83.21	70.63			
			8	83.21	70.63			
			10	83.22	70.64			
			12	83.22	70.64			
			14	83.23	70.65			
			16	83.23	70.65			
			18	83.24	70.66			
			20	83.24	70.66			
			25	83.25	70.67			
			30	83.26	70.68			
			35	83.27	70.69			
			40	83.28	70.70			
			45	83.29	70.71			
			50	83.30	70.72			
			55	83.31	70.73			
	2:15	1	60	83.32	70.74			
			70	83.34	70.76			
			80	83.36	70.78			
			90	83.38	70.80			
			100	83.40	70.82			
			110	83.42	70.84			
	3:15	2	120	83.44	70.86			
			130	83.46	70.88			
			140	83.48	70.90			
			150	83.50	70.92			
			160	83.52	70.94			
			170	83.55	70.97			
	4:15	3	180	83.61	71.03			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 14-15/Nov./2005

STEP No. : 8/9

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133

GPS Reading: 622764 E, 9866796 N

Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 81.12-87.04 m

Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 85.00 m, Discharge (Q): 200 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
15-Nov-05	4:15	0	0	83.61	71.03			
			1	83.61	71.03			
			2	83.61	71.03			
			4	83.61	71.03			
			6	83.61	71.03			
			8	83.61	71.03			
			10	83.61	71.03			
			12	83.61	71.03			
			14	83.61	71.03			
			16	83.61	71.03			
			18	83.61	71.03			
			20	83.61	71.03			
			25	83.61	71.03			
			30	83.60	71.02			
			35	83.60	71.02			
			40	83.59	71.01			
			45	83.59	71.01			
			50	83.58	71.00			
			55	83.58	71.00			
	5:15	1	60	83.57	70.99			
			70	83.56	70.98			
			80	83.55	70.97			
			90	83.54	70.96			
			100	83.53	70.95			
			110	83.52	70.94			
	6:15	2	120	83.51	70.93			
			130	83.50	70.92			
			140	83.49	70.91			
			150	83.48	70.90			
			160	83.47	70.89			
			170	83.46	70.88			
	7:15	3	180	83.45	70.87			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 14-15/Nov./2005

STEP No. : 9/9

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133

GPS Reading: 622764 E, 9866796 N

Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 81.12-87.04 m

Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m

Pump Type: Submersible Pump

Pump Setting: 85.00 m, Discharge (Q): 170 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
15-Nov-05	7:15	0	0	83.45	70.87			
			1	83.42	70.84			
			2	83.39	70.81			
			4	83.33	70.75			
			6	83.25	70.67			
			8	83.18	70.60			
			10	83.10	70.52			
			12	83.01	70.43			
			14	82.90	70.32			
			16	82.79	70.21			
			18	82.68	70.10			
			20	82.57	69.99			
			25	82.20	69.62			
			30	81.87	69.29			
			35	81.55	68.97			
			40	81.22	68.64			
			45	81.00	68.42			
			50	80.78	68.20			
			55	80.53	67.95			
	8:15	1	60	80.30	67.72			
			70	79.83	67.25			
			80	79.21	66.63			
			90	78.38	65.80			
			100	77.89	65.31			
			110	77.12	64.54			
	9:15	2	120	76.60	64.02			
			130	75.86	63.28			
			140	75.04	62.46			
			150	74.28	61.70			
			160	73.38	60.80			
			170	72.42	59.84			
	10:15	3	180	71.63	59.05			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T9) DATA SHEET No. : 1/2**

Date: 15-17/Nov./2005

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133
 GPS Reading: 622764 E, 9866796 N
 Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 81.12-87.04 m
 Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m
 Pump Type: Submersible Pump
 Pump Setting: 85.00 m, Discharge (Q): 200 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
15-Nov-05	23:00		0	12.58	0			
			1	14.78	2.20			
			2	18.46	5.88			
			3	20.79	8.21			
			4	21.83	9.25			
			5	22.46	9.88			
			6	22.68	10.10			
			8	22.87	10.29			
			10	23.02	10.44			
			15	23.24	10.66			
			20	23.87	11.29			
			25	24.73	12.15			
			30	25.27	12.69			
			35	25.95	13.37			
			40	26.38	13.80			
			45	26.77	14.19			
			50	27.33	14.75			
			55	27.79	15.21			
16-Nov-05	0:00	1	60	28.30	15.72			
			70	29.10	16.52			
			80	29.82	17.24			
			90	30.69	18.11			
			100	31.56	18.98			
			110	31.90	19.32			
	1:00	2	120	32.41	19.83			
			140	33.54	20.96			
			160	34.74	22.16			
	2:00	3	180	35.95	23.37			
			210	36.95	24.37			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T9) DATA SHEET No. : 2/2**

Date: 15-17/Nov./2005

Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133
 GPS Reading: 622764 E, 9866796 N
 Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 81.12-87.04 m
 Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m
 Pump Type: Submersible Pump
 Pump Setting: 85.00 m, Discharge (Q): 200 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	3:00	4	240	37.65	25.07			
			270	38.44	25.86			
	4:00	5	300	39.23	26.65			
			330	39.90	27.32			
	5:00	6	360	40.58	28.00			
	6:00	7	420	42.71	30.13			
	7:00	8	480	44.45	31.87			
	8:00	9	540	47.13	34.55			
	9:00	10	600	48.20	35.62			
	10:00	11	660	49.27	36.69			
	11:00	12	720	50.30	37.72			
	12:00	13	780	51.00	38.42			
	13:00	14	840	51.31	38.73			
	14:00	15	900	51.93	39.35			
	15:00	16	960	52.20	39.62			
	17:00	18	1080	52.99	40.41			
	19:00	20	1200	53.63	41.05			
	20:00	21	1260	54.31	41.73			
	21:00	22	1320	55.80	43.22			
	23:00	24	1440	57.63	45.05			
17-Nov-05	2:00	27	1590	58.88	46.30			
	5:00	30	1800	59.33	46.75			
	8:00	33	1980	59.74	47.16			
	11:00	36	2160	60.03	47.45			
	14:00	39	2340	60.46	47.88			
	17:00	42	2520	61.07	48.49			
	20:00	45	2700	61.35	48.77			
	23:00	48	2880	61.35	48.77			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

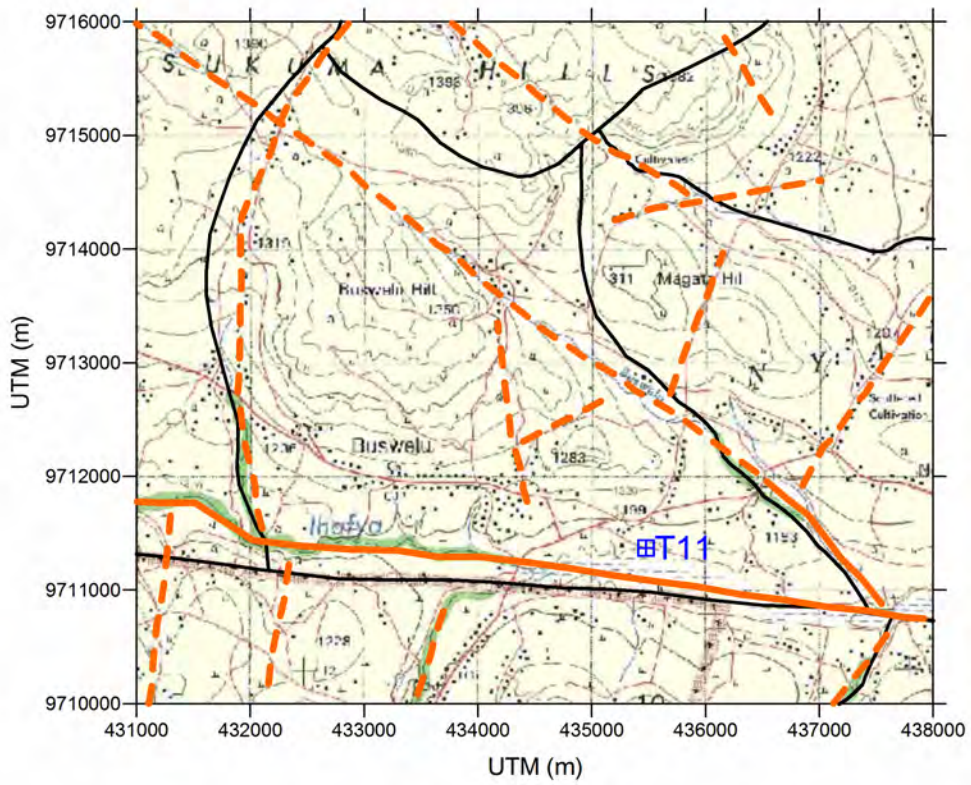
**RECOVERY TEST DATA SHEET
PUMPED WELL (T9) DATA SHEET No. : 1/2**

Date: 17-18/Nov./2005

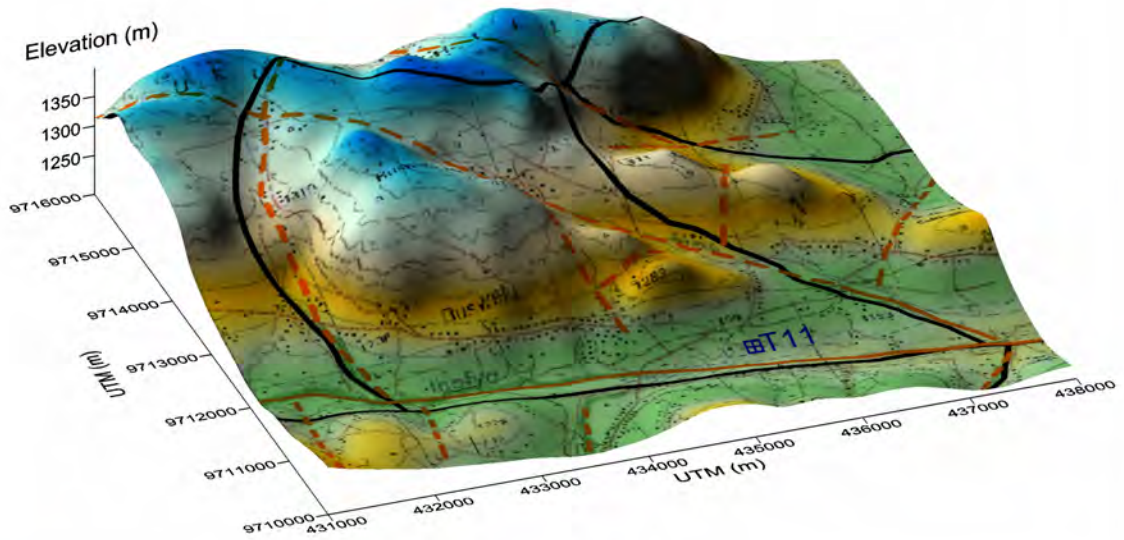
Location: Raranya Village, Tarime District, Mara Region Site No.: Tarime 133
 GPS Reading: 622764 E, 9866796 N
 Well No.: T9 Well Depth: 90.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 81.12-87.04 m
 Static Groundwater Level: GL- 12.58 m Screen Length: 5.92 m
 Pump Type: Submersible Pump
 Pump Setting: 85.00 m, Discharge (Q): 200 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s'] (m)
		(hour)	(min)				
27-Oct-05	3:00		0	2880		61.35	48.77
			1	2881	2881.000	58.72	46.14
			2	2882	1441.000	57.88	45.30
			4	2884	721.000	55.76	43.18
			6	2886	481.000	54.25	41.67
			8	2888	361.000	53.97	41.39
			10	2890	289.000	53.66	41.08
			12	2892	241.000	53.35	40.77
			14	2894	206.714	52.98	40.40
			16	2896	181.000	52.42	39.84
			18	2898	161.000	51.83	39.25
			20	2900	145.000	51.11	38.53
			25	2905	116.200	50.72	38.14
			30	2910	97.000	50.23	37.65
			35	2915	83.286	49.80	37.22
			40	2920	73.000	49.15	36.57
			45	2925	65.000	48.40	35.82
			50	2930	58.600	47.41	34.83
	4:00	1	60	2940	49.000	46.80	34.22
			70	2950	42.143	46.10	33.52
			80	2960	37.000	45.49	32.91
			90	2970	33.000	44.46	31.88
			100	2980	29.800	42.71	30.13
			110	2990	27.182	41.25	28.67
	5:00	2	120	3000	25.000	39.54	26.96
			150	3030	20.200	38.55	25.97
	6:00	3	180	3060	17.000	36.80	24.22
			210	3090	14.714	35.46	22.88
	7:00	4	240	3120	13.000	34.24	21.66
			270	3150	11.667	33.23	20.65
		5	300	3180	10.600	32.68	20.10
			330	3210	9.727	30.69	18.11
		6	360	3240	9.000	29.70	17.12
			390	3270	8.385	27.87	15.29
		7	420	3300	7.857	26.37	13.79
			450	3330	7.400	24.70	12.12
		8	480	3360	7.000	21.99	9.41
		9	540	3420	6.333	19.82	7.24
		10	600	3480	5.800	18.21	5.63
		11	660	3540	5.364	17.00	4.42
		12	720	3600	5.000	16.23	3.65

③ **Supplementary Survey**



(a) Plain View



(b) Bird's Eye View



Figure	Test Well Drilling Point (T11 Test Well: Buswelu Vil.)
	THE STUDY ON THE RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

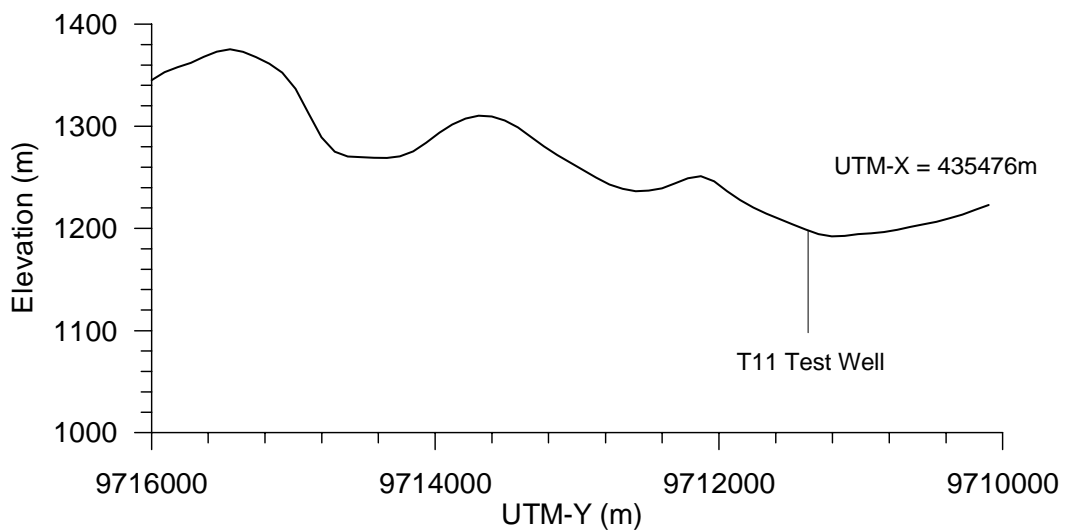
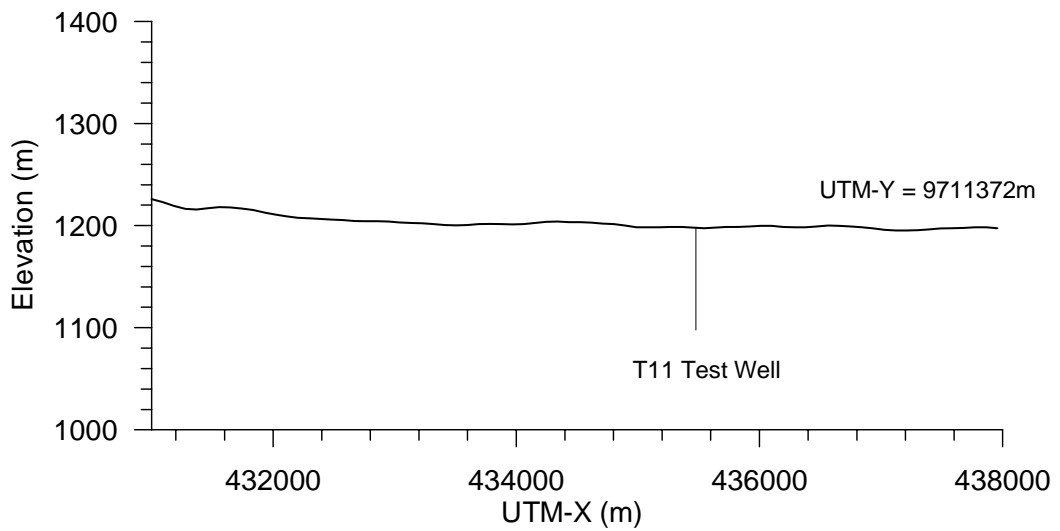
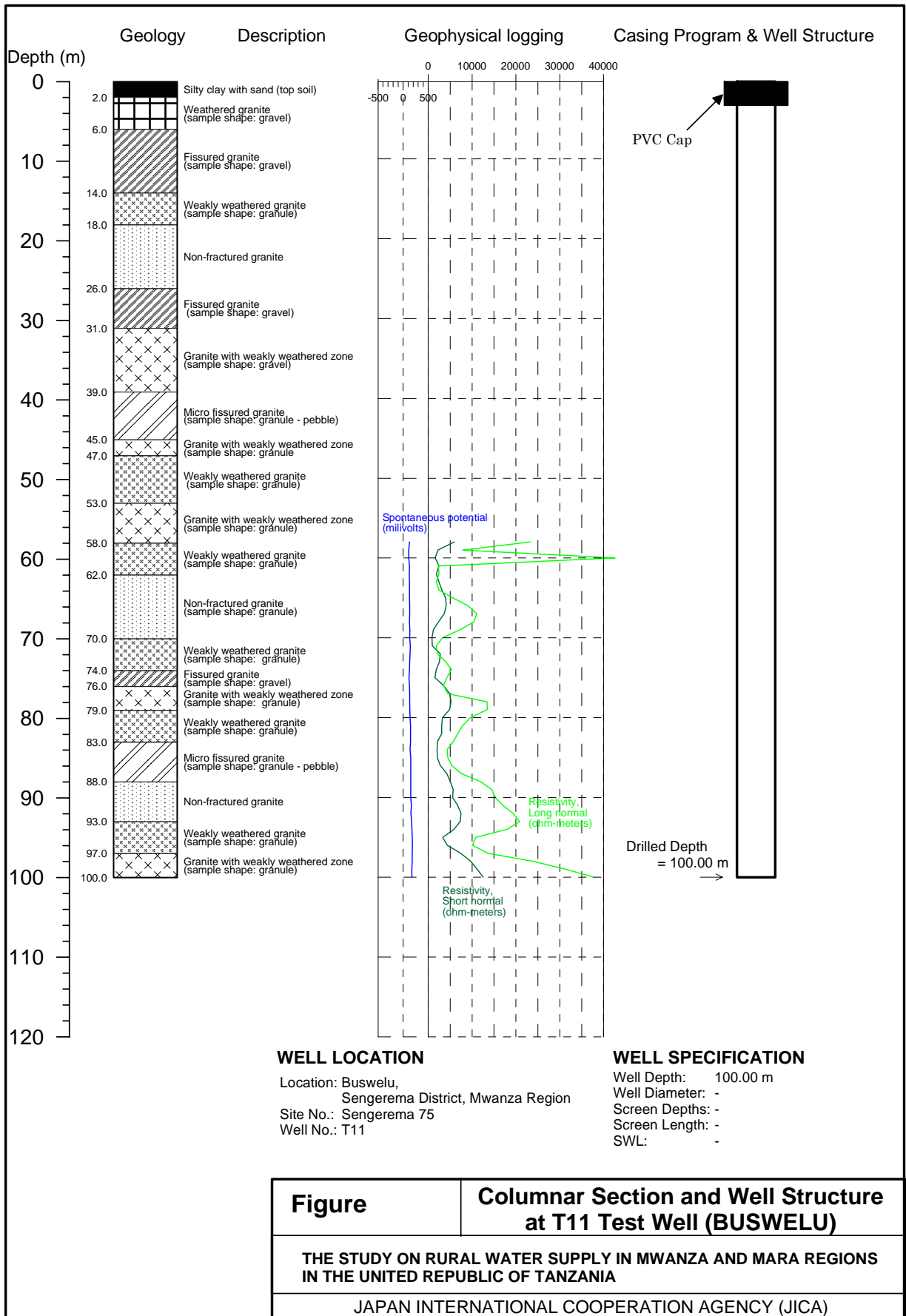
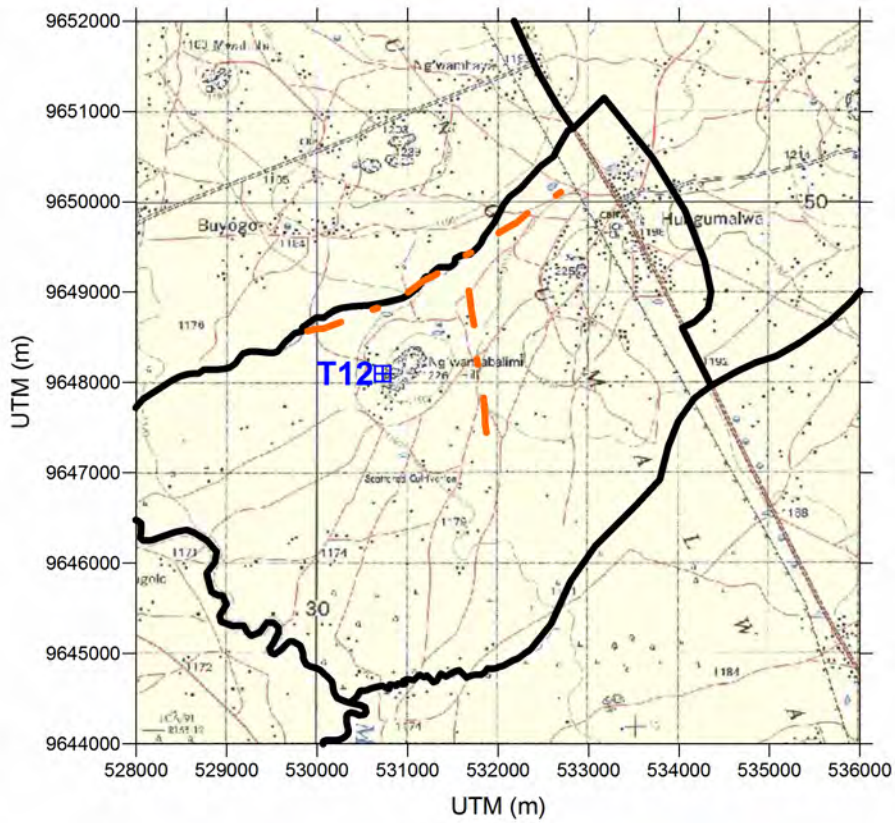
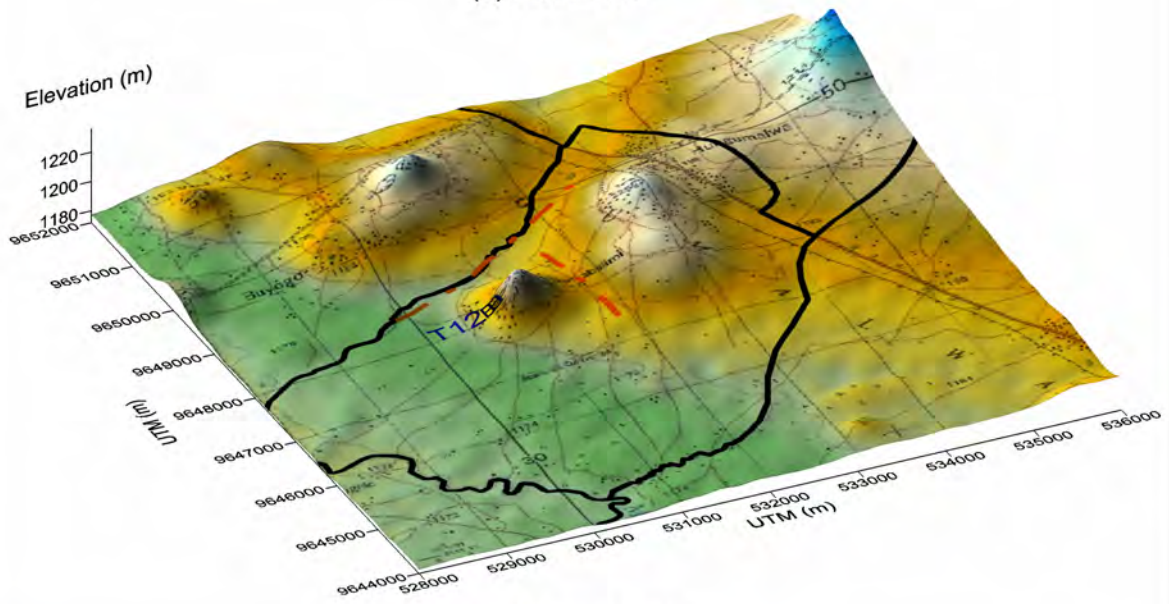


Figure	Test Well Drilling Point - Topographic Profile (T11 Test Well: Buswelu Vil.)
THE BASIC DESIGN STUDY ON THE PROJECT ON PROVINCE OF POTABLE WATER FOR ERADICATION OF GUNIAWORM (PHASE 2) IN THE ISLAMIC REPUBLIC OF MAURITANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	





(a) Plain View



(b) Bird's Eye View

	Lineament (Clear)
	Lineament (Minor)
	Lineament (Trace)
	Village boundary

Figure	Test Well Drilling Point (T12 Test Well: Hungumalwa Vil.)
	THE STUDY ON THE RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

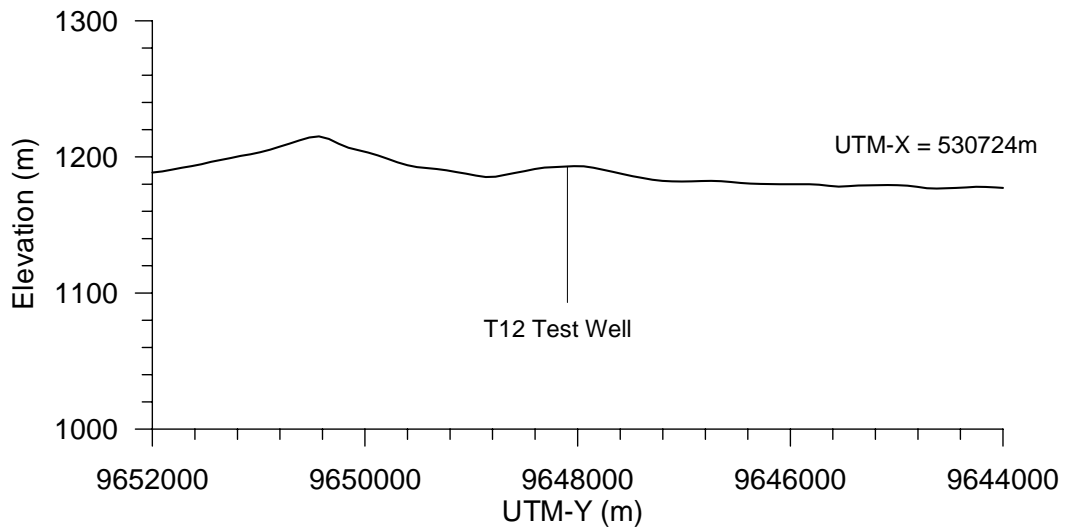
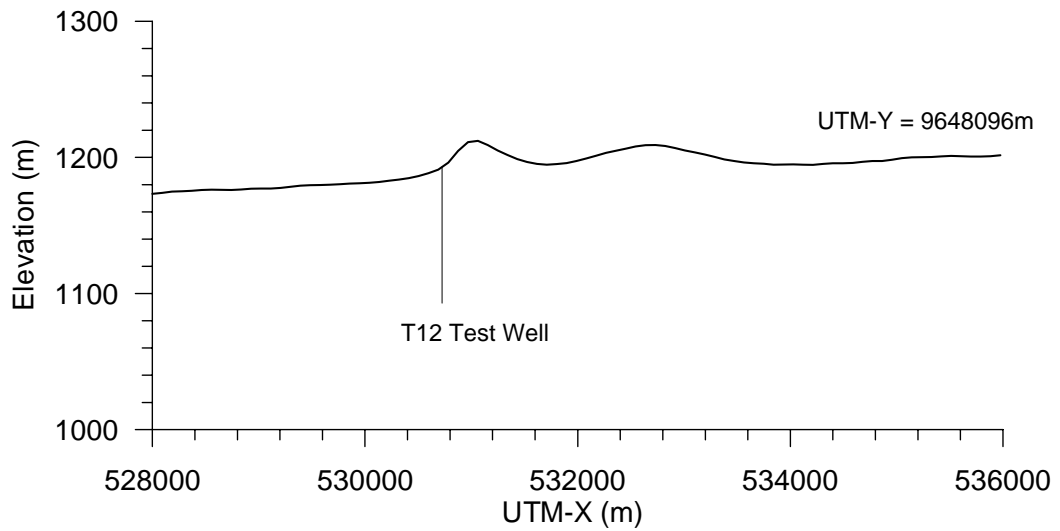


Figure	Test Well Drilling Point - Topographic Profile (T12 Test Well: Hungumalwa Vil.)
THE BASIC DESIGN STUDY ON THE PROJECT ON PROVINCE OF POTABLE WATER FOR ERADICATION OF GUNIAWORM (PHASE 2) IN THE ISLAMIC REPUBLIC OF MAURITANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

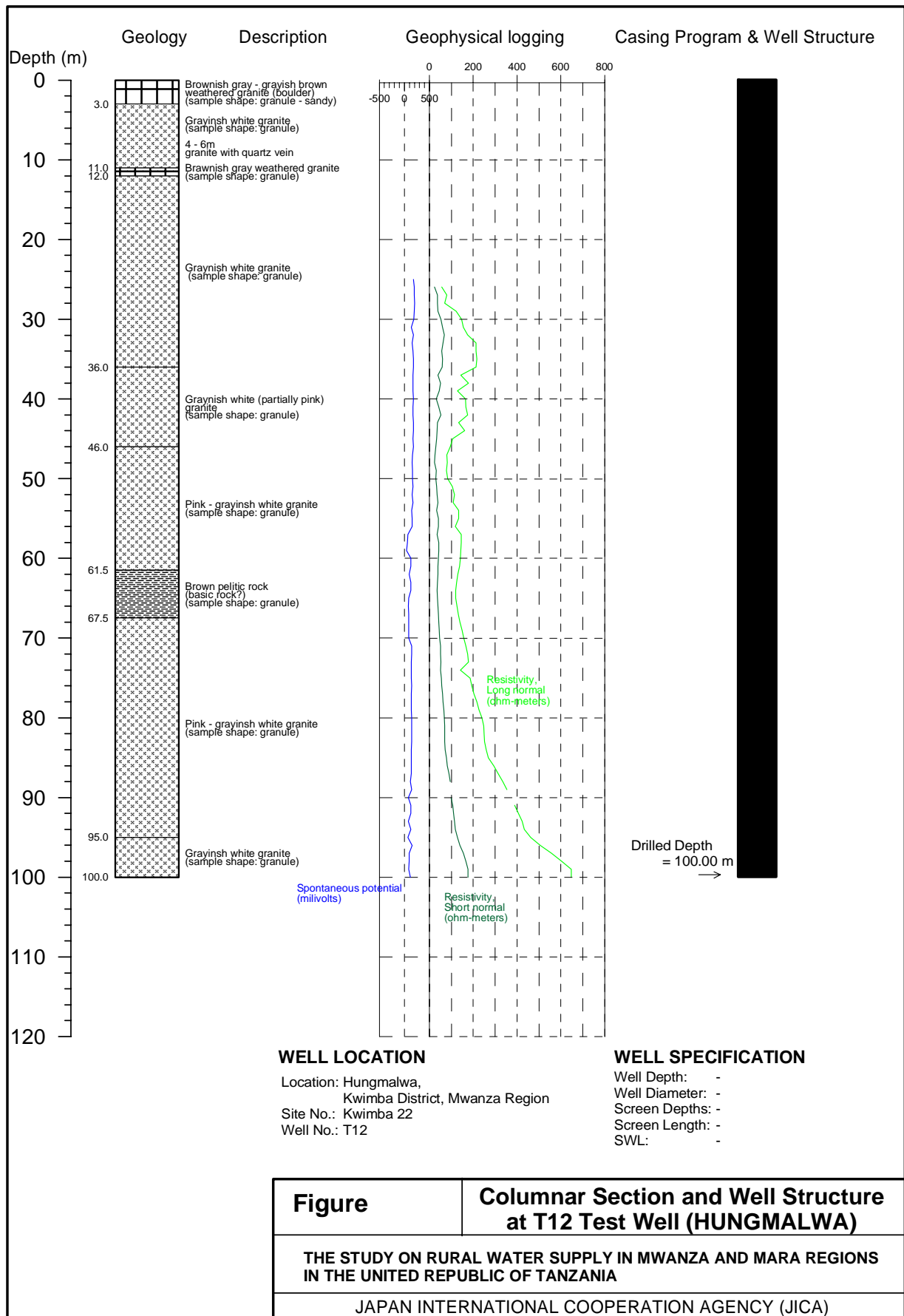
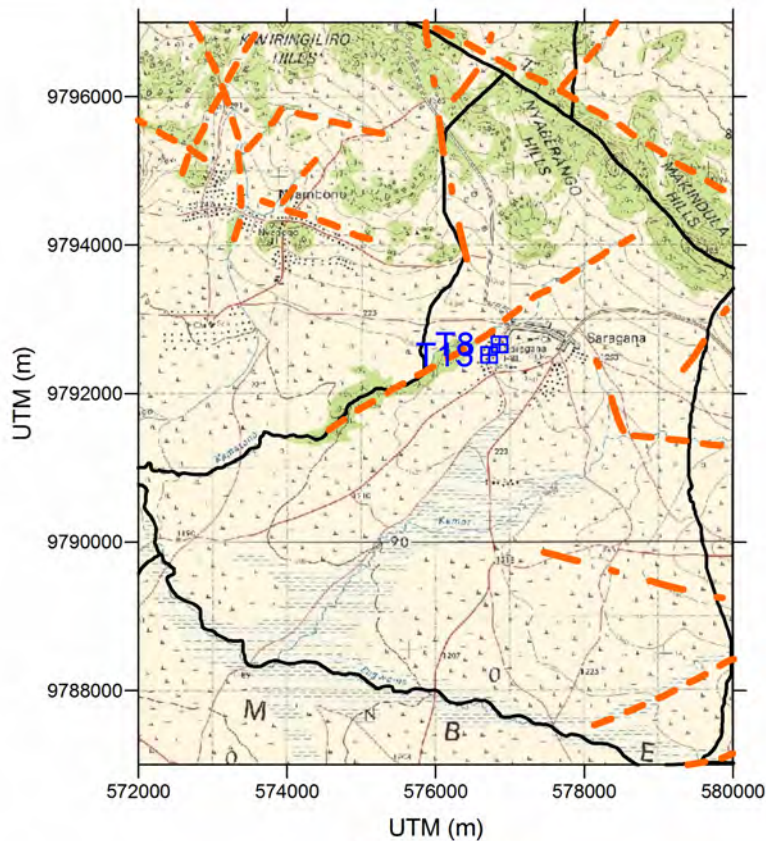


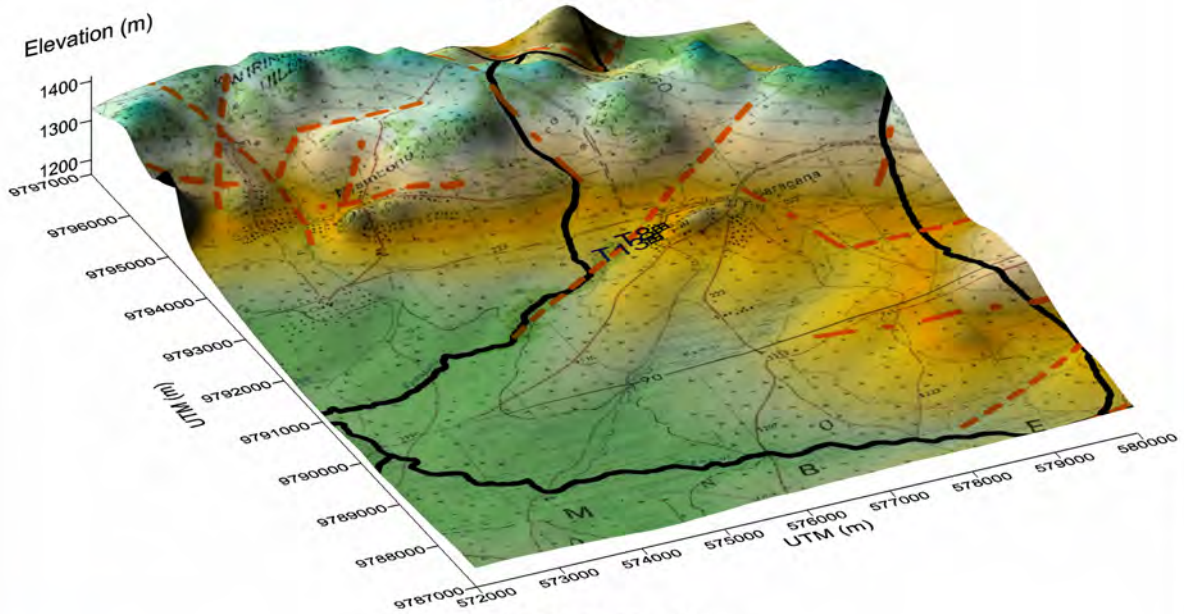
Figure **Columnar Section and Well Structure at T12 Test Well (HUNGMALWA)**

THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



(a) Plain View



(b) Bird's Eye View



Figure	Test Well Drilling Point (T8 and T13 Test Wells: Saragana Vil.)
	THE STUDY ON THE RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

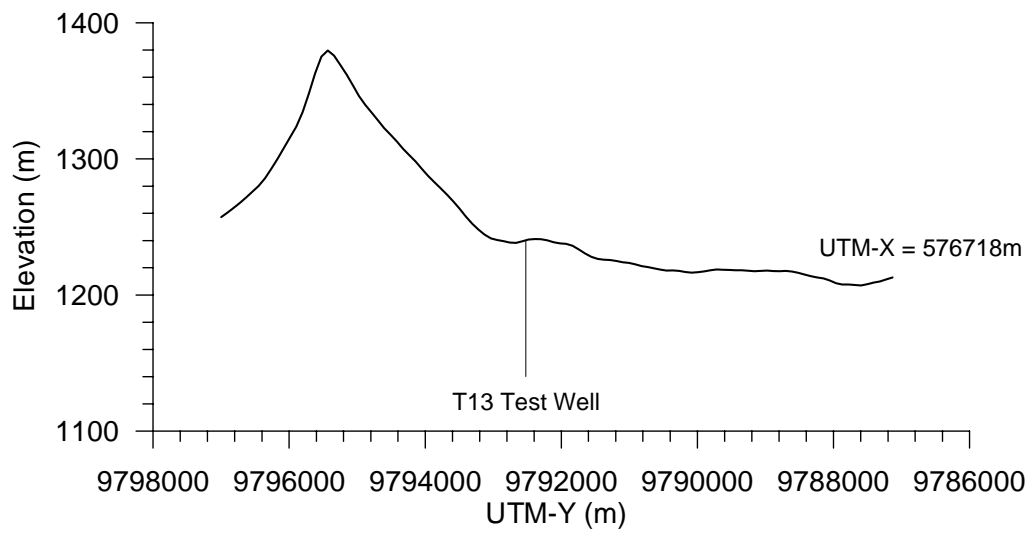
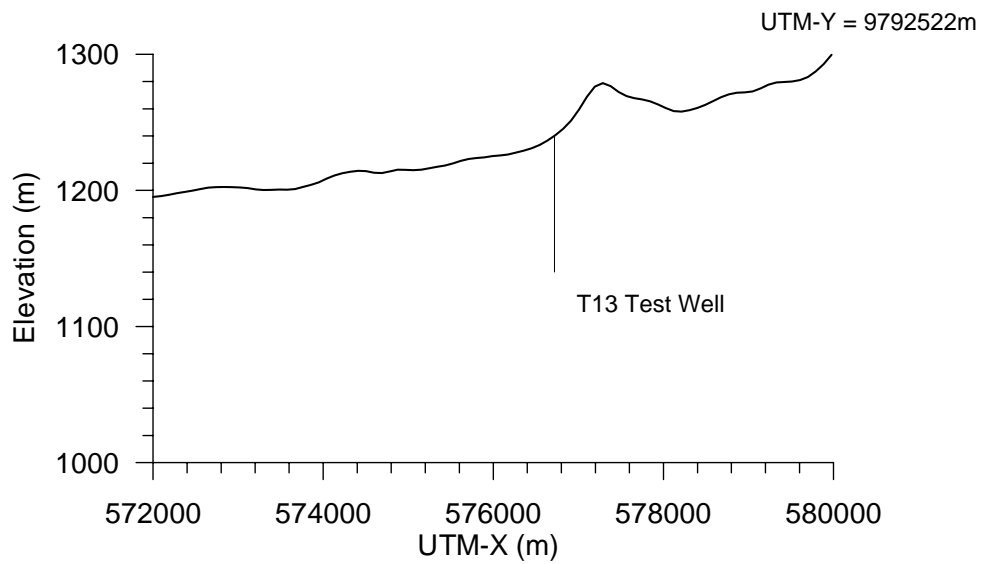
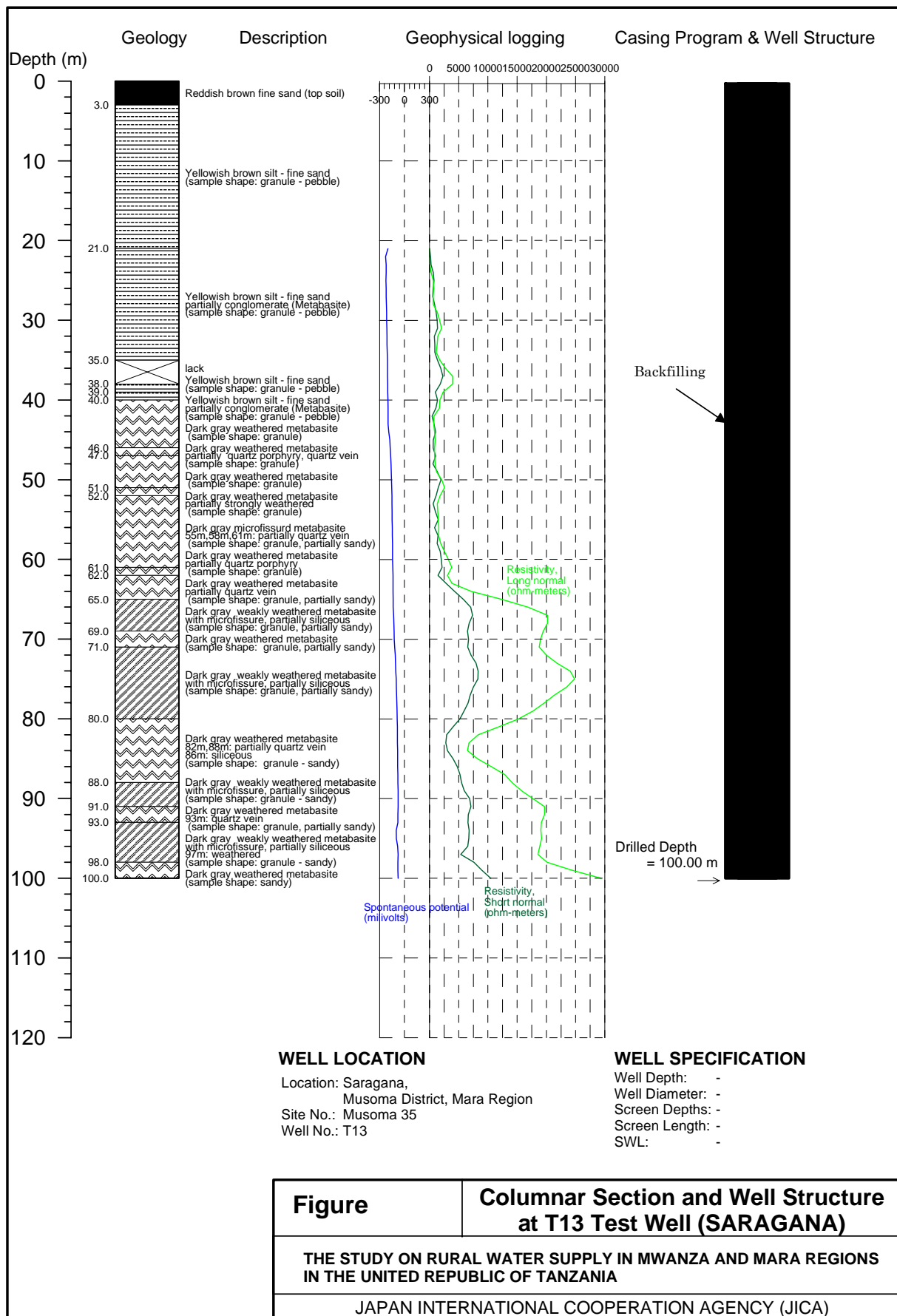
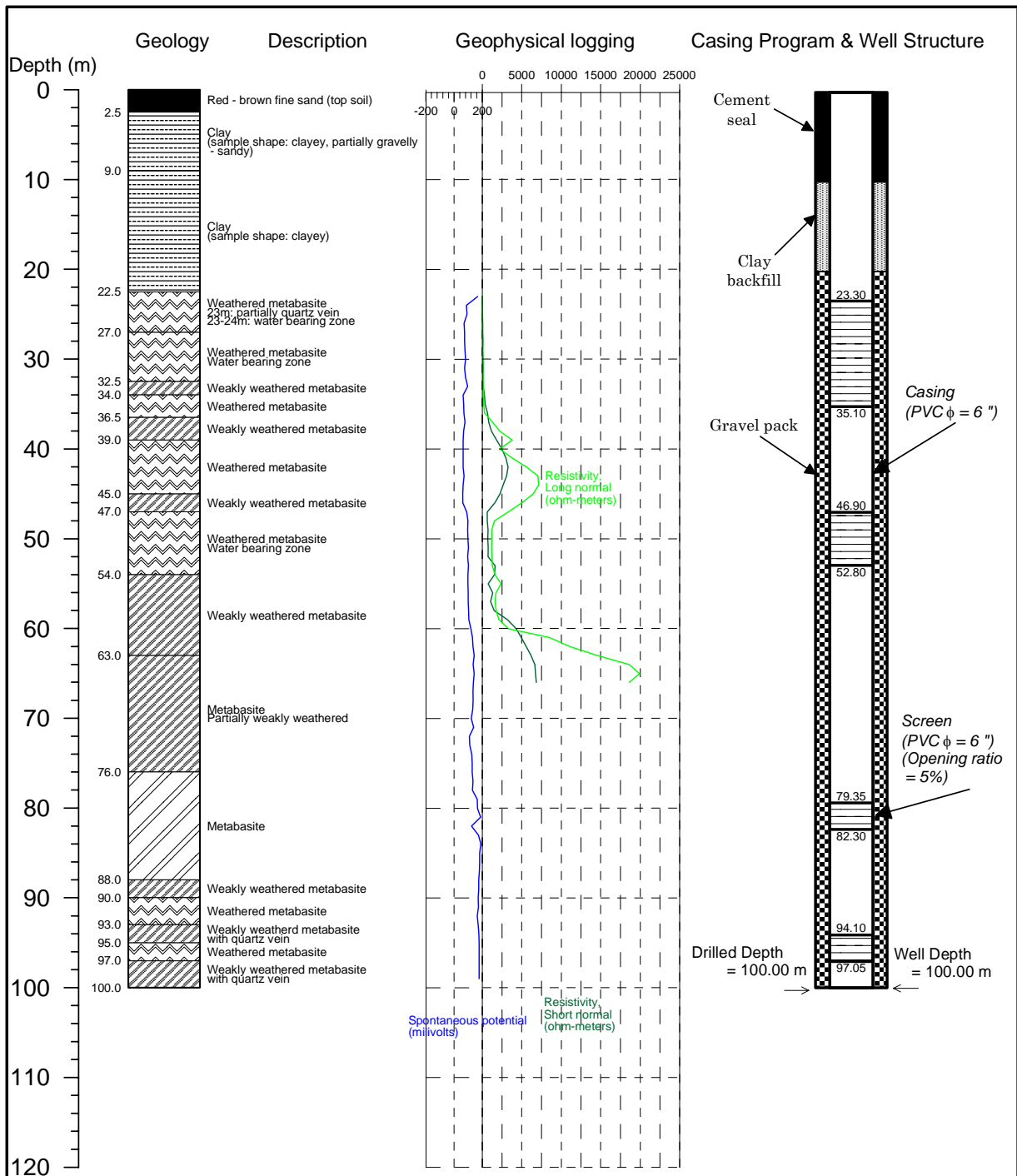


Figure	Test Well Drilling Point - Topographic Profile (T13 Test Well: Saragana Vil.)
THE BASIC DESIGN STUDY ON THE PROJECT ON PROVINCE OF POTABLE WATER FOR ERADICATION OF GUNIAWORM (PHASE 2) IN THE ISLAMIC REPUBLIC OF MAURITANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	





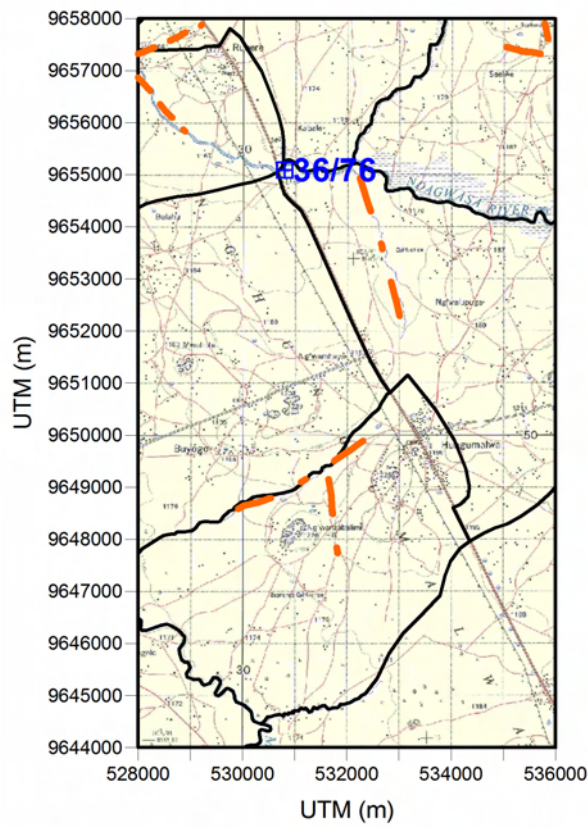
WELL LOCATION

Location: Saragana,
Musoma District, Mara Region
Site No.: Musoma 35
Well No.: T13'

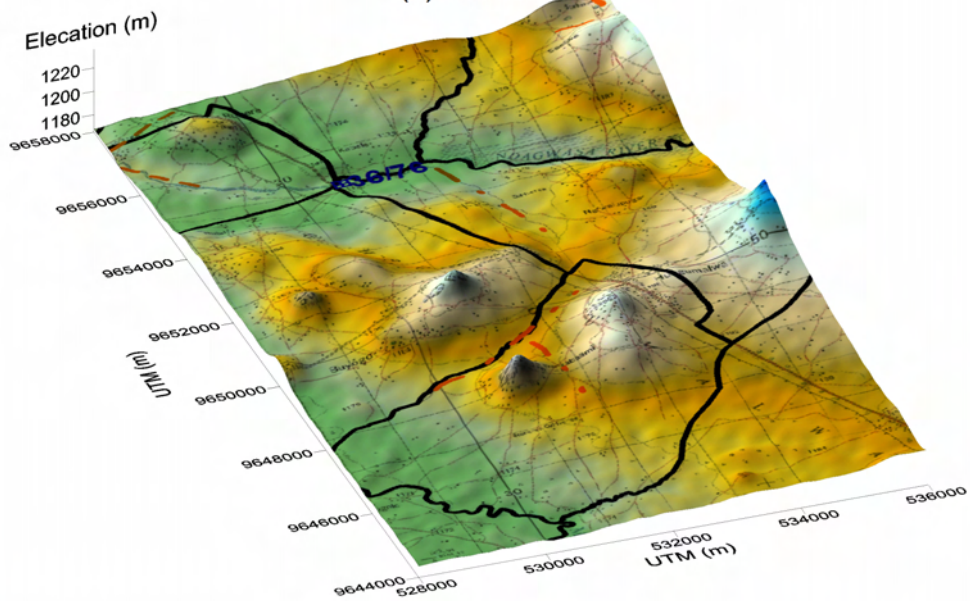
WELL SPECIFICATION

Well Depth: 100.00 m
Well Diameter: 6"
Screen Depths: 23.30-35.10 m, 46.90-52.80 m,
79.35-82.30 m, 94.10-97.05 m
Screen Length: 23.60 m
SWL: GL- 8.54 m
on 25-05-2006

Figure	Columnar Section and Well Structure at T13' Test Well (SARAGANA, re-drilling)
THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



(a) Plain View



(b) Bird's Eye View



Figure	Runere and Hungumalwa Villages (36/76 Existing Wel.)
THE STUDY ON THE RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

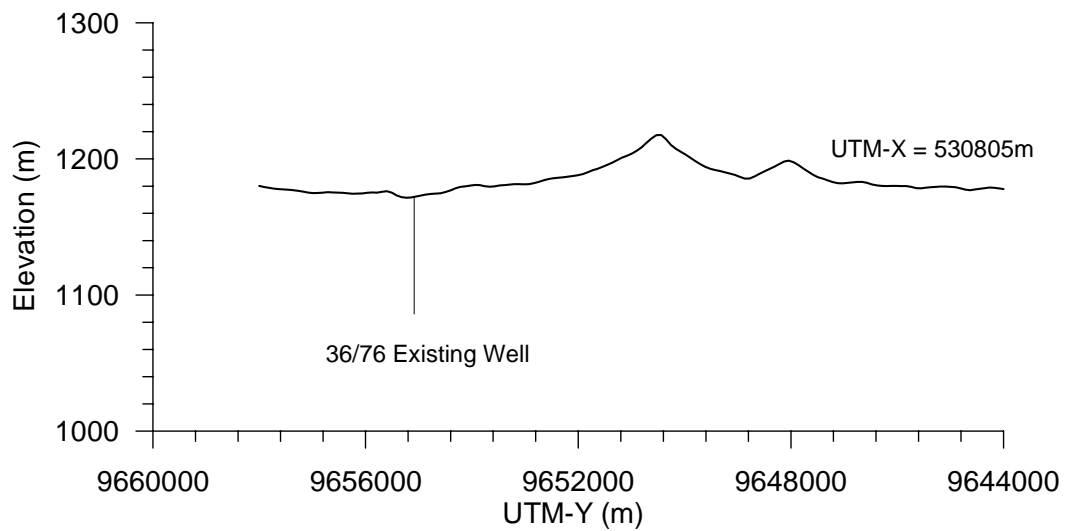
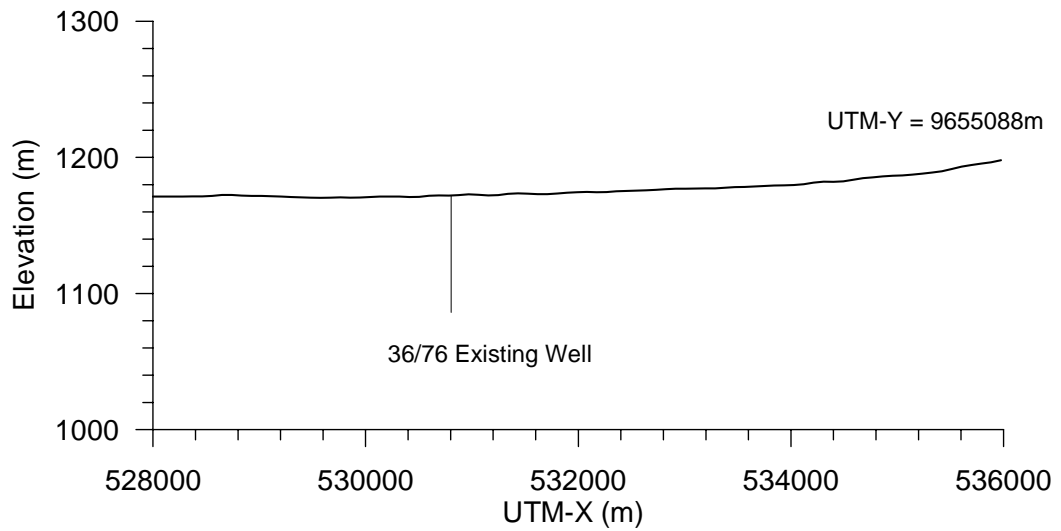
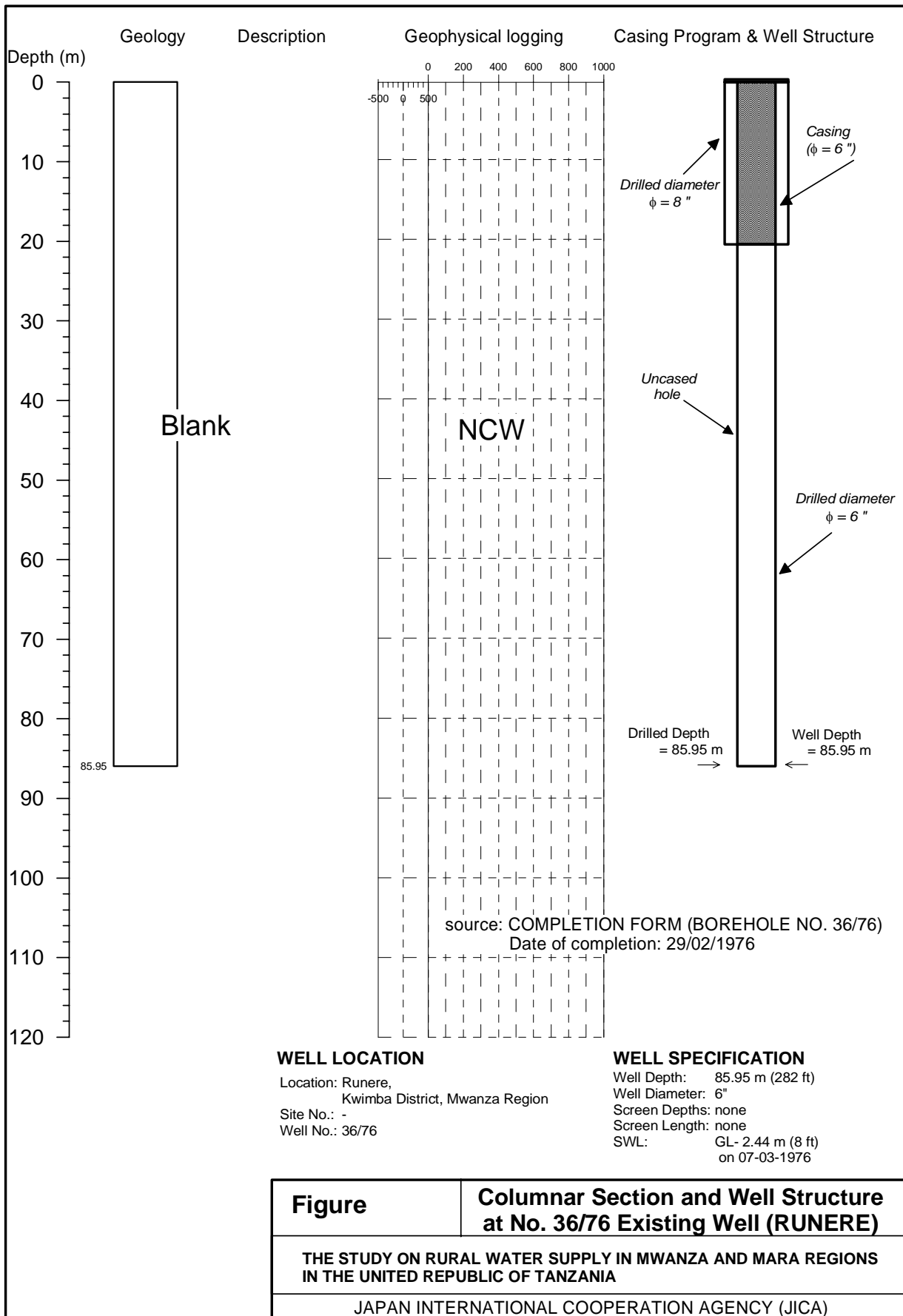
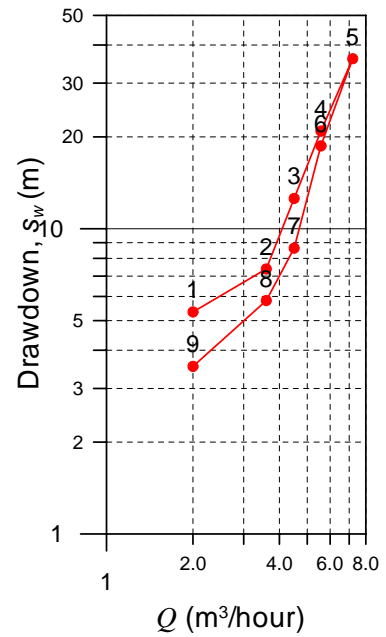
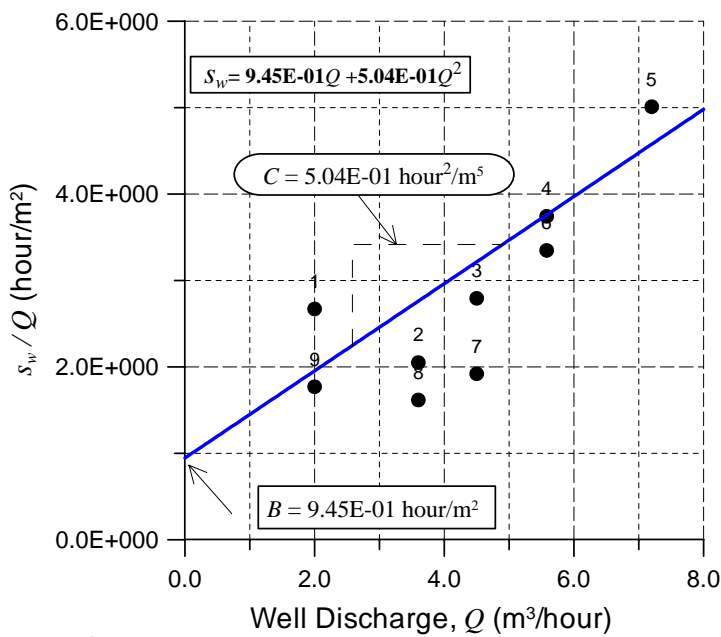
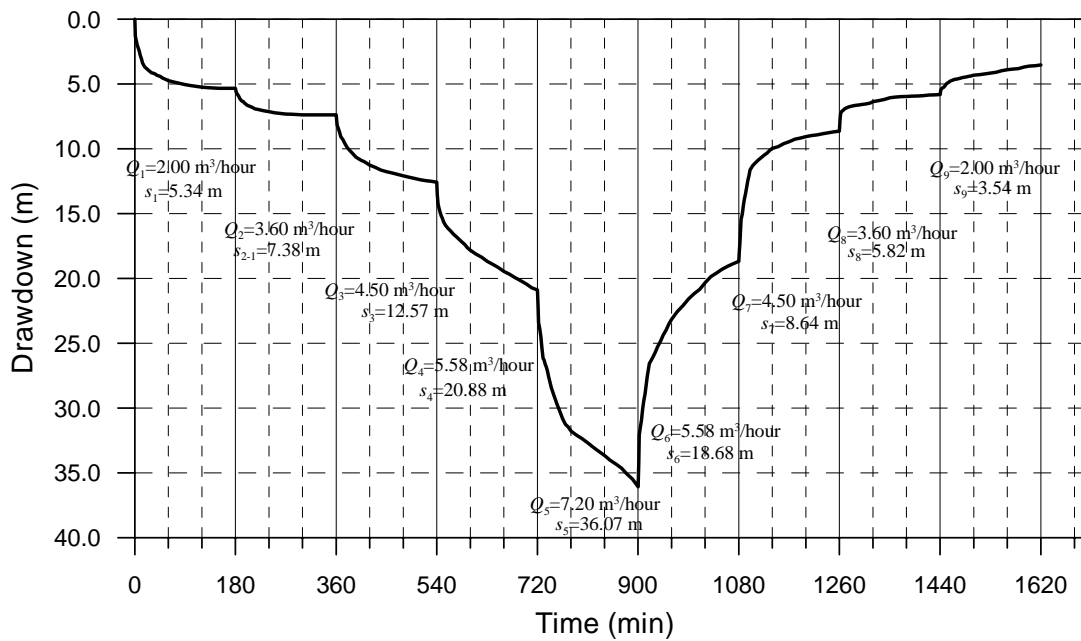


Figure	Test Well Drilling Point - Topographic Profile (36/76 Existing Well: Runere VII.)
THE BASIC DESIGN STUDY ON THE PROJECT ON PROVINCE OF POTABLE WATER FOR ERADICATION OF GUNIAWORM (PHASE 2) IN THE ISLAMIC REPUBLIC OF MAURITANIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	





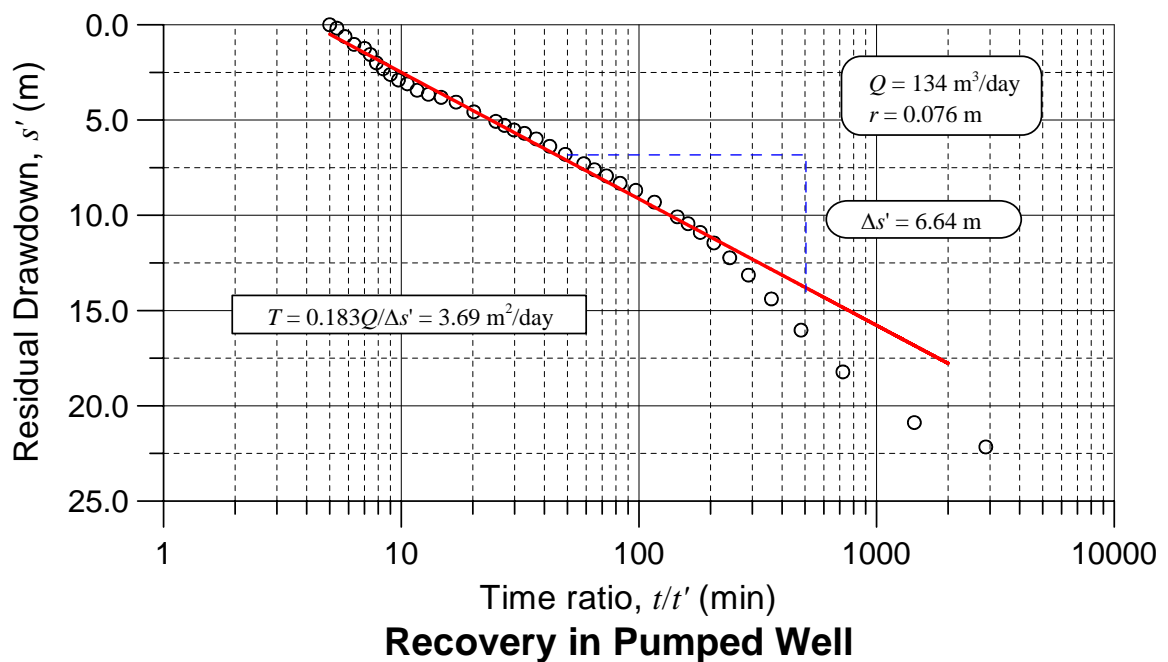
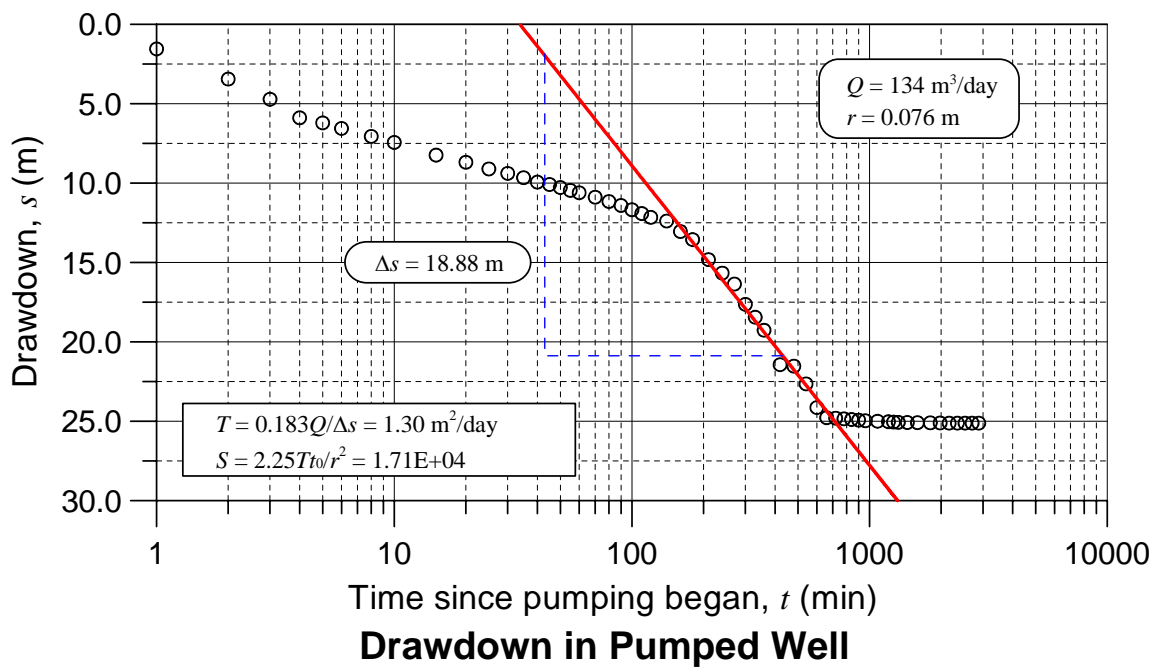
Location: Saragana, Musoma District,
Mara Region
Site No.: Musoma 62
Well No.: T13'
Well Depth: 100.00 m
Well Diameter: 6"
Screen Depths: 23.30-35.10 m,
46.90-52.80 m,
79.35-82.30 m,
94.10-97.05 m
Screen Length: 23.60 m
SWL: GL- 8.54 m
on 25-05-2006

Figure

Results of Step-Drawdown Test
at T13' Test Well (SARAGANA)

THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



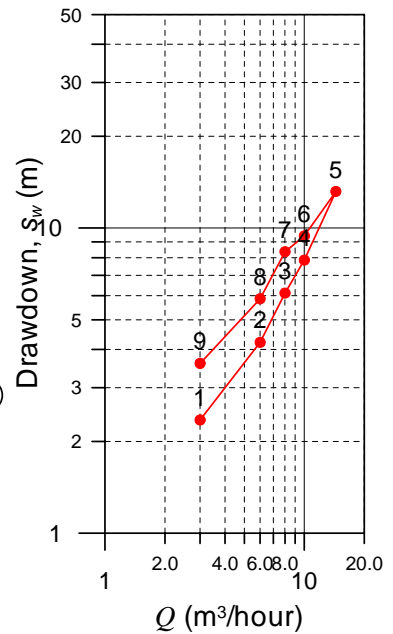
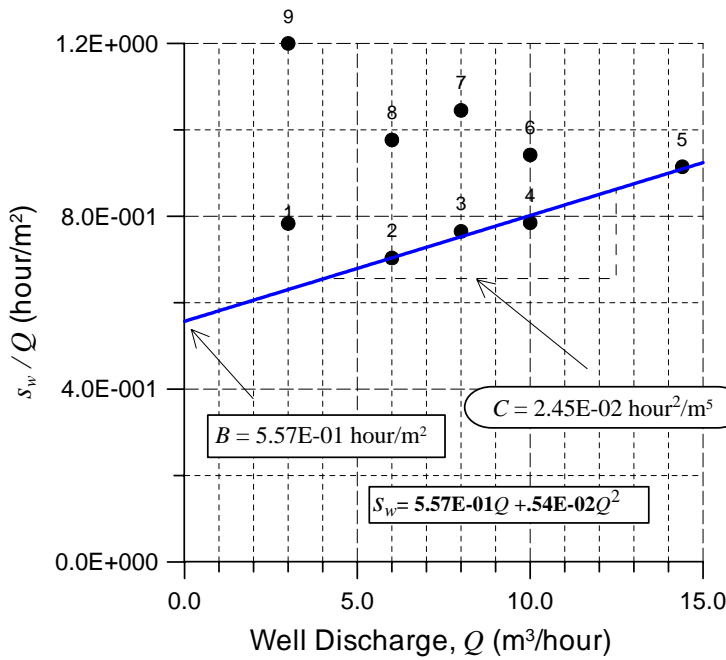
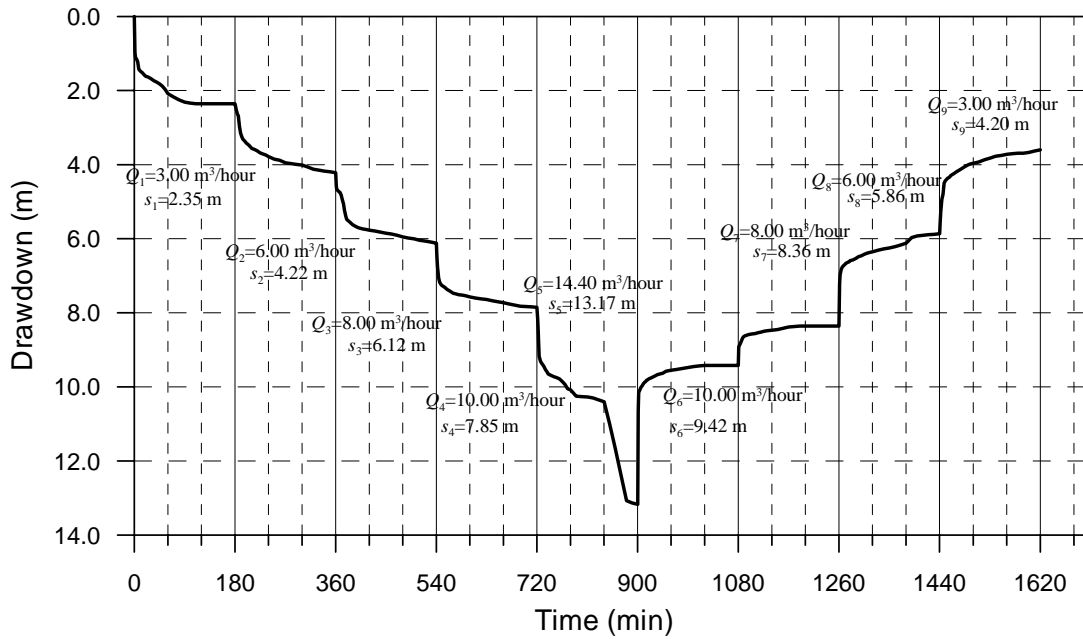
Location: Saragana, Musoma District,
Mara Region
Site No.: Musoma 62
Well No.: T13'
Well Depth: 100.00 m
Well Diameter: 6"
Screen Depths: 23.30-35.10 m,
46.90-52.80 m,
79.35-82.30 m,
94.10-97.05 m
Screen Length: 23.60 m
SWL: GL- 8.54 m
on 25-05-2006

Figure

**Results of Continuous Pumping Test
and Recovery Test
at T13' Test Well (SARAGANA)**

THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS
IN THE UNITED REPUBLIC OF TANZANIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



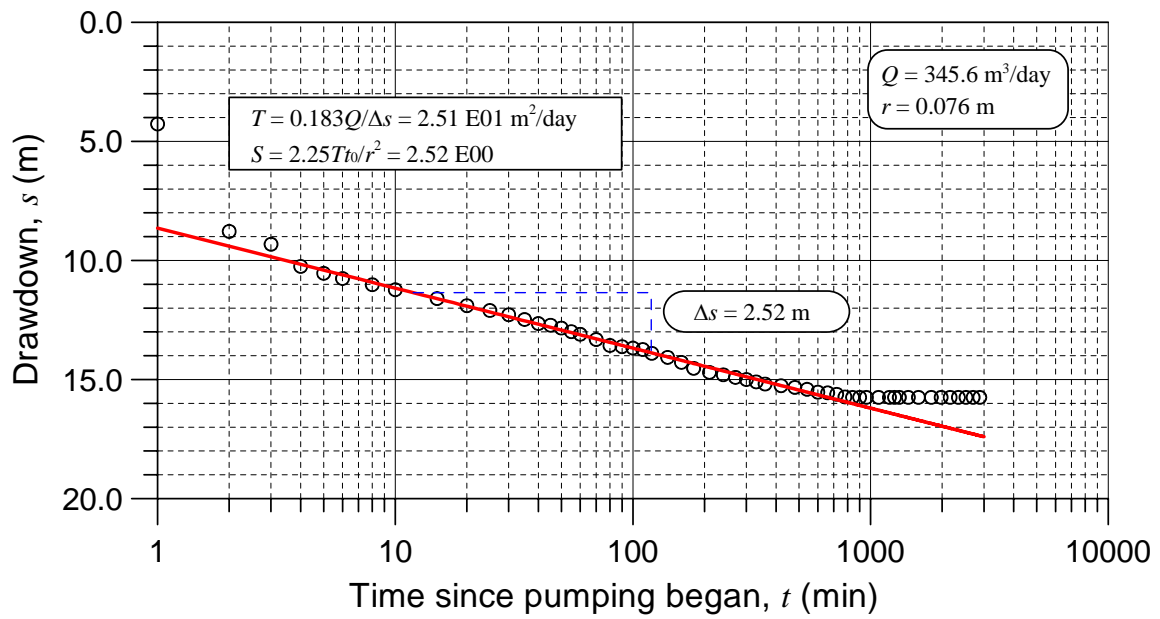
Location: Runere, Kwimba District,
 Mwanza Region
 Site No.: Kwimba
 Well No.: 36/76
 Well Depth: 85.95 m
 Well Diameter: 6"
 Screen Depths: Uncased hole
 Screen Length: 65.23 m (uncased)
 SWL: GL- 3.73 m
 on 09-04-2006

Figure

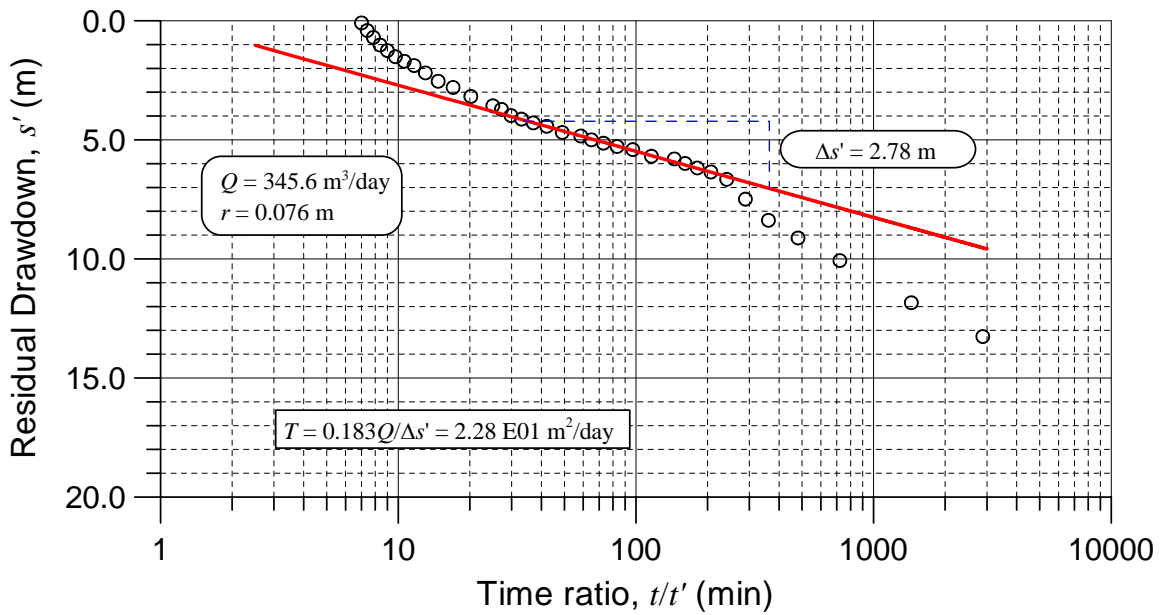
Results of Step-Drawdown Test at 36/76 Existing Well (RUNERE)

THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



Drawdown in Pumped Well



Recovery in Pumped Well

Location: Runere, Kwimba District,
Mwanza Region
Site No.: Kwimba
Well No.: 36/76
Well Depth: 85.99 m
Well Diameter: 6"
Screen Depths: Uncased hole
Screen Length: 65.23 m (uncased)
SWL: GL- 3.73 m
on 09-04-2006

Figure

**Results of Continuous Pumping Test
and Recovery Test
at 36/76 Existing Well (RUNERE)**

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARAREGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 25-26/May/2006

STEP No. : 1/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62
 GPS Reading: 576718 E, 9792522 N
 Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m
 Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m
 Pump Type: Submersible Pump
 Pump Setting: 70.00 m, Discharge (Q): 2,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
25-May-06	19:30	0	0	8.54				
			1	9.88	1.34			
			2	10.03	1.49			
			4	10.50	1.96			
			6	10.73	2.19	103.0	8.58	27.5
			8	11.02	2.48			
			10	11.34	2.80			
			12	11.63	3.09			
			14	11.91	3.37			
			16	12.10	3.56			
			18	12.24	3.70			
			20	12.32	3.78			
			25	12.50	3.96			
			30	12.68	4.14			
			35	12.74	4.20			
			40	12.87	4.33			
			45	12.94	4.40			
			50	13.09	4.55			
			55	13.18	4.64			
	20:30	1	60	13.27	4.73			
			70	13.40	4.86			
			80	13.49	4.95			
			90	13.58	5.04			
			100	13.66	5.12			
			110	13.73	5.19			
	21:30	2	120	13.78	5.24			
			130	13.82	5.28			
			140	13.85	5.31			
			150	13.87	5.33			
			160	13.88	5.34			
			170	13.88	5.34			
	22:30	3	180	13.88	5.34			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 25-26/May/2006

STEP No. : 2/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62
 GPS Reading: 576718 E, 9792522 N
 Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m
 Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m
 Pump Type: Submersible Pump
 Pump Setting: 70.00 m, Discharge (Q): 3,600 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
25-May-06	22:30	0	0	13.88	5.34			
			1	14.09	5.55			
			2	14.25	5.71			
			4	14.36	5.82			
			6	14.51	5.97			
			8	14.68	6.14			
			10	14.79	6.25			
			12	14.88	6.34			
			14	14.90	6.36			
			16	15.01	6.47			
			18	15.08	6.54			
			20	15.15	6.61			
			25	15.25	6.71			
			30	15.34	6.80			
			35	15.46	6.92			
			40	15.50	6.96			
			45	15.55	7.01			
			50	15.59	7.05			
			55	15.64	7.10			
	23:30	1	60	15.68	7.14			
			70	15.76	7.22			
			80	15.81	7.27			
			90	15.86	7.32			
			100	15.88	7.34			
			110	15.90	7.36			
26-May-06	0:30	2	120	15.91	7.37			
			130	15.92	7.38			
			140	15.92	7.38			
			150	15.92	7.38			
			160	15.92	7.38			
			170	15.92	7.38			
	1:30	3	180	15.92	7.38			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 25-26/May/2006

STEP No. : 3/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62

GPS Reading: 576718 E, 9792522 N

Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m

Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m

Pump Type: Submersible Pump

Pump Setting: 70.00 m, Discharge (Q): 4,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
26-May-06	1:30	0	0	15.92	7.38			
			1	16.38	7.84			
			2	16.74	8.20			
			4	16.99	8.45			
			6	17.24	8.70			
			8	17.58	9.04			
			10	17.70	9.16			
			12	17.83	9.29			
			14	17.98	9.44			
			16	18.16	9.62			
			18	18.30	9.76			
			20	18.45	9.91			
			25	18.70	10.16			
			30	18.91	10.37			
			35	19.17	10.63			
			40	19.30	10.76			
			45	19.42	10.88			
			50	19.53	10.99			
			55	19.66	11.12			
	2:30	1	60	19.79	11.25			
			70	19.97	11.43			
			80	20.18	11.64			
			90	20.30	11.76			
			100	20.41	11.87			
			110	20.52	11.98			
	3:30	2	120	20.62	12.08			
			130	20.73	12.19			
			140	20.82	12.28			
			150	20.91	12.37			
			160	20.99	12.45			
			170	21.05	12.51			
	4:30	3	180	21.11	12.57			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 25-26/May/2006

STEP No. : 4/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62

GPS Reading: 576718 E, 9792522 N

Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m

Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m

Pump Type: Submersible Pump

Pump Setting: 70.00 m, Discharge (Q): 5,580 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
26-May-06	4:30	0	0	21.11	12.57			
			1	22.04	13.50			
			2	22.78	14.24			
			4	23.12	14.58			
			6	23.44	14.90			
			8	23.71	15.17			
			10	23.90	15.36			
			12	24.15	15.61			
			14	24.31	15.77			
			16	24.46	15.92			
			18	24.57	16.03			
			20	24.68	16.14			
			25	24.90	16.36			
			30	25.13	16.59			
			35	25.32	16.78			
			40	25.53	16.99			
			45	25.74	17.20			
			50	25.92	17.38			
			55	26.18	17.64			
	5:30	1	60	26.37	17.83			
			70	26.66	18.12			
			80	26.90	18.36			
			90	27.22	18.68			
			100	27.45	18.91			
			110	27.70	19.16			
	6:30	2	120	27.99	19.45			
			130	28.22	19.68			
			140	28.47	19.93			
			150	28.71	20.17			
			160	28.97	20.43			
			170	29.26	20.72			
	7:30	3	180	29.42	20.88			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 25-26/May/2006

STEP No. : 5/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62

GPS Reading: 576718 E, 9792522 N

Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m

Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m

Pump Type: Submersible Pump

Pump Setting: 70.00 m, Discharge (Q): 7,200 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
26-May-06	7:30	0	0	29.42	20.88			
			1	30.74	22.20			
			2	31.96	23.42			
			4	32.40	23.86			
			6	33.00	24.46			
			8	33.91	25.37			
			10	34.69	26.15			
			12	34.85	26.31			
			14	35.18	26.64			
			16	35.40	26.86			
			18	35.72	27.18			
			20	36.13	27.59			
			25	36.98	28.44			
			30	37.64	29.10			
			35	38.26	29.72			
			40	38.80	30.26			
			45	39.36	30.82			
			50	39.79	31.25			
			55	40.00	31.46			
	8:30	1	60	40.31	31.77			
			70	40.63	32.09			
			80	40.90	32.36			
			90	41.24	32.70			
			100	41.58	33.04			
			110	41.89	33.35			
	9:30	2	120	42.20	33.66			
			130	42.57	34.03			
			140	42.84	34.30			
			150	43.17	34.63			
			160	43.62	35.08			
			170	44.02	35.48			
	10:30	3	180	44.61	36.07			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 25-26/May/2006

STEP No. : 6/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62

GPS Reading: 576718 E, 9792522 N

Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m

Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m

Pump Type: Submersible Pump

Pump Setting: 70.00 m, Discharge (Q): 5,580 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
26-May-06	10:30	0	0	44.61	36.07			
			1	42.76	34.22			
			2	40.60	32.06			
			4	39.99	31.45			
			6	39.48	30.94			
			8	38.62	30.08			
			10	38.00	29.46			
			12	37.46	28.92			
			14	36.88	28.34			
			16	36.09	27.55			
			18	35.63	27.09			
			20	35.10	26.56			
			25	34.71	26.17			
			30	34.29	25.75			
			35	33.80	25.26			
			40	33.38	24.84			
			45	32.90	24.36			
			50	32.51	23.97			
			55	32.04	23.50			
	11:30	1	60	31.68	23.14			
			70	31.10	22.56			
			80	30.64	22.10			
			90	30.11	21.57			
			100	29.73	21.19			
			110	29.38	20.84			
	12:30	2	120	28.86	20.32			
			130	28.41	19.87			
			140	28.12	19.58			
			150	27.84	19.30			
			160	27.60	19.06			
			170	27.41	18.87			
	13:30	3	180	27.22	18.68			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET
STEP No. : 7/9

Date: 25-26/May/2006

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62
 GPS Reading: 576718 E, 9792522 N
 Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m
 Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m
 Pump Type: Submersible Pump
 Pump Setting: 70.00 m, Discharge (Q): 4,500 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
26-May-06	13:30	0	0	27.22	18.68			
			1	26.48	17.94			
			2	25.76	17.22			
			4	24.00	15.46			
			6	23.55	15.01			
			8	22.94	14.40			
			10	22.46	13.92			
			12	21.99	13.45			
			14	21.50	12.96			
			16	21.00	12.46			
			18	20.63	12.09			
			20	20.17	11.63			
			25	19.84	11.30			
			30	19.60	11.06			
			35	19.41	10.87			
			40	19.22	10.68			
			45	19.03	10.49			
			50	18.89	10.35			
			55	18.67	10.13			
	14:30	1	60	18.50	9.96			
			70	18.38	9.84			
			80	18.14	9.60			
			90	17.99	9.45			
			100	17.80	9.26			
			110	17.71	9.17			
	15:30	2	120	17.60	9.06			
			130	17.52	8.98			
			140	17.46	8.92			
			150	17.38	8.84			
			160	17.30	8.76			
			170	17.24	8.70			
	16:30	3	180	17.18	8.64			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 25-26/May/2006

STEP No. : 8/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62
 GPS Reading: 576718 E, 9792522 N
 Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m
 Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m
 Pump Type: Submersible Pump
 Pump Setting: 70.00 m, Discharge (Q): 3,600 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
26-May-06	16:30	0	0	17.18	8.64			
			1	16.20	7.66			
			2	15.82	7.28			
			4	15.66	7.12			
			6	15.58	7.04			
			8	15.50	6.96			
			10	15.44	6.90			
			12	15.39	6.85			
			14	15.35	6.81			
			16	15.32	6.78			
			18	15.29	6.75			
			20	15.26	6.72			
			25	15.22	6.68			
			30	15.18	6.64			
			35	15.15	6.61			
			40	15.12	6.58			
			45	15.09	6.55			
			50	15.06	6.52			
			55	15.01	6.47			
	17:30	1	60	14.90	6.36			
			70	14.82	6.28			
			80	14.74	6.20			
			90	14.60	6.06			
			100	14.55	6.01			
			110	14.52	5.98			
	18:30	2	120	14.50	5.96			
			130	14.48	5.94			
			140	14.46	5.92			
			150	14.43	5.89			
			160	14.40	5.86			
			170	14.38	5.84			
	19:30	3	180	14.36	5.82			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 25-26/May/2006

STEP No. : 9/9

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62

GPS Reading: 576718 E, 9792522 N

Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m

Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m

Pump Type: Submersible Pump

Pump Setting: 70.00 m, Discharge (Q): 2,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
26-May-06	19:30	0	0	14.36	5.82			
			1	14.06	5.52			
			2	13.91	5.37			
			4	13.85	5.31			
			6	13.79	5.25			
			8	13.72	5.18			
			10	13.58	5.04			
			12	13.49	4.95			
			14	13.43	4.89			
			16	13.38	4.84			
			18	13.32	4.78			
			20	13.27	4.73			
			25	13.20	4.66			
			30	13.15	4.61			
			35	13.10	4.56			
			40	13.05	4.51			
			45	13.01	4.47			
			50	12.96	4.42			
			55	12.91	4.37			
	20:30	1	60	12.86	4.32			
			70	12.82	4.28			
			80	12.76	4.22			
			90	12.70	4.16			
			100	12.64	4.10			
			110	12.52	3.98			
	21:30	2	120	12.43	3.89			
			130	12.39	3.85			
			140	12.35	3.81			
			150	12.24	3.70			
			160	12.16	3.62			
			170	12.13	3.59			
	22:30	3	180	12.08	3.54			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T13) DATA SHEET No. : 1/2**

Date: 27-29/May/2006

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62

GPS Reading: 576718 E, 9792522 N

Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m

Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m

Pump Type: Submersible Pump

Pump Setting: 70.00 m, Discharge (Q): 5,580 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
27-May-06	2:00		0	8.54	0			
			1	10.09	1.55			
			2	11.99	3.45			
			3	13.26	4.72			
			4	14.43	5.89			
			5	14.75	6.21			
			6	15.10	6.56			
			8	15.60	7.06			
			10	15.98	7.44			
			15	16.78	8.24			
			20	17.23	8.69			
			25	17.65	9.11			
			30	17.93	9.39			
			35	18.20	9.66			
			40	18.48	9.94			
			45	18.63	10.09			
			50	18.82	10.28			
			55	19.00	10.46			
	3:00	1	60	19.15	10.61			
			70	19.43	10.89			
			80	19.70	11.16			
			90	19.95	11.41			
			100	20.22	11.68			
			110	20.46	11.92			
	4:00	2	120	20.70	12.16			
			140	20.93	12.39			
			160	21.59	13.05			
	5:00	3	180	22.10	13.56			
			210	23.36	14.82			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (T13) DATA SHEET No. : 2/2**

Date: 27-29/May/2006

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62
 GPS Reading: 576718 E, 9792522 N
 Well No.: T13' Well Depth: 100.00 m, Well Diameter: 6.00 "
 Screen Depth(s): 58.70-64.60, 82.30-85.25, 94.10-97.05 m
 Static Groundwater Level: GL- 8.54 m Screen Length: 11.80 m
 Pump Type: Submersible Pump
 Pump Setting: 70.00 m, Discharge (Q): 5,580 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
	6:00	4	240	24.21	15.67			
			270	24.90	16.36			
	7:00	5	300	26.18	17.64			
			330	26.99	18.45			
	8:00	6	360	27.81	19.27			
	9:00	7	420	29.98	21.44			
	10:00	8	480	30.07	21.53			
	11:00	9	540	31.19	22.65			
	12:00	10	600	32.68	24.14			
	13:00	11	660	33.32	24.78			
	14:00	12	720	33.35	24.81			
	15:00	13	780	33.39	24.85			
	16:00	14	840	33.43	24.89			
	17:00	15	900	33.47	24.93			
	18:00	16	960	33.51	24.97			
	20:00	18	1080	33.54	25.00			
	22:00	20	1200	33.57	25.03			
	23:00	21	1260	33.59	25.05			
28-May-06	0:00	22	1320	33.61	25.07			
	2:00	24	1440	33.62	25.08			
	5:00	27	1590	33.63	25.09			
	8:00	30	1800	33.64	25.10			
	11:00	33	1980	33.65	25.11			
	14:00	36	2160	33.66	25.12			
	17:00	39	2340	33.66	25.12			
	20:00	42	2520	33.66	25.12			
	23:00	45	2700	33.66	25.12			
29-May-06	2:00	48	2880	33.66	25.12			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

RECOVERY TEST DATA SHEET

Date: 29/May/2006

PUMPED WELL (T13) DATA SHEET No. : 1/2

Location: Saragana Village, Musoma District, Mara Region Site No.: Musoma 62
 GPS Reading: 605656 E, 9777588 N
 Well No.: T13' Well Depth: 100.00 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): _____ m
 Static Groundwater Level: GL- 8.54 m Screen Length: _____ m
 Pump Type: Submersible Pump
 Pump Setting: 70.00 m, Discharge (Q): 5,580 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s'] (m)
		(hour)	(min)				
29-May-06	2:00		0	2880		33.66	25.12
			1	2881	2881.000	30.70	22.16
			2	2882	1441.000	29.42	20.88
			4	2884	721.000	26.76	18.22
			6	2886	481.000	24.57	16.03
			8	2888	361.000	22.93	14.39
			10	2890	289.000	21.68	13.14
			12	2892	241.000	20.77	12.23
			14	2894	206.714	19.99	11.45
			16	2896	181.000	19.44	10.90
			18	2898	161.000	18.98	10.44
			20	2900	145.000	18.62	10.08
			25	2905	116.200	17.85	9.31
			30	2910	97.000	17.23	8.69
			35	2915	83.286	16.86	8.32
			40	2920	73.000	16.47	7.93
			45	2925	65.000	16.15	7.61
			50	2930	58.600	15.83	7.29
	3:00	1	60	2940	49.000	15.34	6.80
			70	2950	42.143	14.92	6.38
			80	2960	37.000	14.53	5.99
			90	2970	33.000	14.24	5.70
			100	2980	29.800	14.06	5.52
			110	2990	27.182	13.82	5.28
	4:00	2	120	3000	25.000	13.61	5.07
			150	3030	20.200	13.11	4.57
	5:00	3	180	3060	17.000	12.60	4.06
			210	3090	14.714	12.35	3.81
	6:00	4	240	3120	13.000	12.19	3.65
			270	3150	11.667	11.98	3.44
	7:00	5	300	3180	10.600	11.64	3.10
			330	3210	9.727	11.44	2.90
	8:00	6	360	3240	9.000	11.15	2.61
			390	3270	8.385	10.85	2.31
	9:00	7	420	3300	7.857	10.54	2.00
			450	3330	7.400	10.10	1.56
	10:00	8	480	3360	7.000	9.78	1.24
	11:00	9	540	3420	6.333	9.57	1.03
	12:00	10	600	3480	5.800	9.16	0.62
	13:00	11	660	3540	5.364	8.72	0.18
	14:00	12	720	3600	5.000	8.54	0.00

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-10/Apr./2006

STEP No. : 1/9

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba
GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "
Screen Depth(s): Uncased hole (20.73-85.95m) m
Static Groundwater Level: GL- 3.73 m Screen Length: 65.23 m
Pump Type: (uncased)
Pump Setting: 60.00 m, Discharge (Q): 3,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
9-Apr-06	17:10	0	0	3.73				
			1	4.69	0.96			
			2	4.83	1.10			
			4	4.88	1.15			
			6	4.95	1.22			
			8	5.15	1.42			
			10	5.19	1.46	74.1	8.49	27.7
			12	5.22	1.49			
			14	5.24	1.51			
			16	5.28	1.55			
			18	5.31	1.58			
			20	5.34	1.61			
			25	5.37	1.64			
			30	5.41	1.68			
			35	5.46	1.73			
			40	5.50	1.77			
			45	5.55	1.82			
			50	5.61	1.88			
			55	5.70	1.97			
	18:10	1	60	5.81	2.08			
			70	5.90	2.17			
			80	5.98	2.25			
			90	6.04	2.31			
			100	6.07	2.34			
			110	6.08	2.35			
	19:10	2	120	6.08	2.35			
			130	6.08	2.35			
			140	6.08	2.35			
			150	6.08	2.35			
			160	6.08	2.35			
			170	6.08	2.35			
	20:10	3	180	6.08	2.35			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-10/Apr./2006

STEP No. : 2/9

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba
 GPS Reading: 530805 E, 9655088 N
 Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): Uncased hole (20.73-85.95m) m
 Static Groundwater Level: GL- 3.73 m Screen Length: 65.23 m
 Pump Type: (uncased)
 Pump Setting: 60.00 m, Discharge (Q): 6,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
9-Apr-06	20:10	0	0	6.08	2.35			
			1	6.16	2.43			
			2	6.23	2.50			
			4	6.35	2.62			
			6	6.42	2.69			
			8	6.70	2.97			
			10	6.88	3.15			
			12	6.97	3.24			
			14	7.04	3.31			
			16	7.07	3.34			
			18	7.11	3.38			
			20	7.14	3.41			
			25	7.20	3.47			
			30	7.29	3.56			
			35	7.32	3.59			
			40	7.36	3.63			
			45	7.41	3.68			
			50	7.44	3.71			
			55	7.47	3.74			
	21:10	1	60	7.51	3.78			
			70	7.58	3.85			
			80	7.61	3.88			
			90	7.68	3.95			
			100	7.70	3.97			
			110	7.72	3.99			
	22:10	2	120	7.74	4.01			
			130	7.79	4.06			
			140	7.85	4.12			
			150	7.88	4.15			
			160	7.90	4.17			
			170	7.92	4.19			
	23:10	3	180	7.95	4.22			

*THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA*

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-10/Apr./2006

STEP No. : 3/9

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba

GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): Uncased hole (20.73-85.95m) m

Static Groundwater Level: GL- 3.73 m Screen Length: 65.23 m

Pump Type: (uncased)

Pump Setting: 60.00 m, Discharge (Q): 8,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
9-Apr-06	23:10	0	0	7.95	4.22			
			1	8.32	4.59			
			2	8.40	4.67			
			4	8.43	4.70			
			6	8.46	4.73			
			8	8.48	4.75			
			10	8.56	4.83			
			12	8.68	4.95			
			14	8.79	5.06			
			16	8.96	5.23			
			18	9.12	5.39			
			20	9.21	5.48			
			25	9.28	5.55			
			30	9.35	5.62			
			35	9.39	5.66			
			40	9.43	5.70			
			45	9.45	5.72			
			50	9.47	5.74			
			55	9.48	5.75			
10-Apr-06	0:10	1	60	9.50	5.77			
			70	9.52	5.79			
			80	9.55	5.82			
			90	9.58	5.85			
			100	9.60	5.87			
			110	9.64	5.91			
	1:10	2	120	9.68	5.95			
			130	9.71	5.98			
			140	9.73	6.00			
			150	9.77	6.04			
			160	9.79	6.06			
			170	9.82	6.09			
	2:10	3	180	9.85	6.12			

**THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-10/Apr./2006

STEP No. : 4/9

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba

GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): Uncased hole (20.73-85.95m) m

Static Groundwater Level: GL- 3.73 m Screen Length: 65.23 m

Pump Type: _____ (uncased)

Pump Setting: 60.00 m, Discharge (Q): 10,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Apr-06	2:10	0	0	9.85	6.12			
			1	10.18	6.45			
			2	10.48	6.75			
			4	10.78	7.05			
			6	10.90	7.17			
			8	10.96	7.23			
			10	10.99	7.26			
			12	11.01	7.28			
			14	11.03	7.30			
			16	11.05	7.32			
			18	11.08	7.35			
			20	11.11	7.38			
			25	11.15	7.42			
			30	11.20	7.47			
			35	11.22	7.49			
			40	11.24	7.51			
			45	11.25	7.52			
			50	11.26	7.53			
			55	11.28	7.55			
	3:10	1	60	11.30	7.57			
			70	11.33	7.60			
			80	11.35	7.62			
			90	11.37	7.64			
			100	11.40	7.67			
			110	11.43	7.70			
	4:10	2	120	11.46	7.73			
			130	11.49	7.76			
			140	11.52	7.79			
			150	11.55	7.82			
			160	11.56	7.83			
			170	11.57	7.84			
	5:10	3	180	11.58	7.85			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-10/Apr./2006

STEP No. : 5/9

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba
GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "
Screen Depth(s): Uncased hole (20.73-85.95m) m
Static Groundwater Level: GL- 3.73 m Screen Length: 65.23 m
Pump Type: (uncased)
Pump Setting: 60.00 m, Discharge (Q): 14,400 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Apr-06	5:10	0	0	11.58	7.85			
			1	11.90	8.17			
			2	12.20	8.47			
			4	12.90	9.17			
			6	13.03	9.30			
			8	13.08	9.35			
			10	13.13	9.40			
			12	13.16	9.43			
			14	13.23	9.50			
			16	13.28	9.55			
			18	13.33	9.60			
			20	13.38	9.65			
			25	13.42	9.69			
			30	13.45	9.72			
			35	13.48	9.75			
			40	13.51	9.78			
			45	13.58	9.85			
			50	13.66	9.93			
			55	13.78	10.05			
	6:10	1	60	13.81	10.08			
			70	13.98	10.25			
			80	13.99	10.26			
			90	14.00	10.27			
			100	14.03	10.30			
			110	14.08	10.35			
	7:10	2	120	14.13	10.40			
			130	14.74	11.01			
			140	15.38	11.65			
			150	16.10	12.37			
			160	16.80	13.07			
			170	16.86	13.13			
	8:10	3	180	16.90	13.17			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-10/Apr./2006

STEP No. : 6/9

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba

GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): Uncased hole (20.73-85.95m) m

Static Groundwater Level: GL- 3.73 m Screen Length: 65.23 m

Pump Type: (uncased)

Pump Setting: 60.00 m, Discharge (Q): 10,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Apr-06	8:10	0	0	16.90	13.17			
			1	14.38	10.65			
			2	13.88	10.15			
			4	13.80	10.07			
			6	13.74	10.01			
			8	13.70	9.97			
			10	13.65	9.92			
			12	13.61	9.88			
			14	13.59	9.86			
			16	13.55	9.82			
			18	13.54	9.81			
			20	13.51	9.78			
			25	13.48	9.75			
			30	13.44	9.71			
			35	13.40	9.67			
			40	13.38	9.65			
			45	13.36	9.63			
			50	13.31	9.58			
			55	13.29	9.56			
	9:10	1	60	13.28	9.55			
			70	13.26	9.53			
			80	13.23	9.50			
			90	13.21	9.48			
			100	13.18	9.45			
			110	13.16	9.43			
	10:10	2	120	13.15	9.42			
			130	13.15	9.42			
			140	13.15	9.42			
			150	13.15	9.42			
			160	13.15	9.42			
			170	13.15	9.42			
	11:10	3	180	13.15	9.42			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-10/Apr./2006

STEP No. : 7/9

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba

GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): Uncased hole (20.73-85.95m) m

Static Groundwater Level: GL- 3.73 m Screen Length: 65.23 m

Pump Type: (uncased)

Pump Setting: 60.00 m, Discharge (Q): 8,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Apr-06	11:10	0	0	13.15	9.42			
			1	12.65	8.92			
			2	12.60	8.87			
			4	12.55	8.82			
			6	12.46	8.73			
			8	12.40	8.67			
			10	12.37	8.64			
			12	12.35	8.62			
			14	12.34	8.61			
			16	12.33	8.60			
			18	12.32	8.59			
			20	12.31	8.58			
			25	12.30	8.57			
			30	12.29	8.56			
			35	12.27	8.54			
			40	12.25	8.52			
			45	12.23	8.50			
			50	12.22	8.49			
			55	12.21	8.48			
	12:10	1	60	12.20	8.47			
			70	12.18	8.45			
			80	12.15	8.42			
			90	12.11	8.38			
			100	12.10	8.37			
			110	12.09	8.36			
	13:10	2	120	12.09	8.36			
			130	12.09	8.36			
			140	12.09	8.36			
			150	12.09	8.36			
			160	12.09	8.36			
			170	12.09	8.36			
	14:10	3	180	12.09	8.36			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-10/Apr./2006

STEP No. : 8/9

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba

GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): Uncased hole (20.73-85.95m) m

Static Groundwater Level: GL- 3.73 m Screen Length: 65.23 m

Pump Type: (uncased)

Pump Setting: 60.00 m, Discharge (Q): 6,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Apr-06	14:10	0	0	12.09	8.36			
			1	10.95	7.22			
			2	10.70	6.97			
			4	10.56	6.83			
			6	10.49	6.76			
			8	10.46	6.73			
			10	10.43	6.70			
			12	10.40	6.67			
			14	10.38	6.65			
			16	10.36	6.63			
			18	10.35	6.62			
			20	10.32	6.59			
			25	10.30	6.57			
			30	10.26	6.53			
			35	10.21	6.48			
			40	10.19	6.46			
			45	10.15	6.42			
			50	10.12	6.39			
			55	10.10	6.37			
	15:10	1	60	10.08	6.35			
			70	10.04	6.31			
			80	10.00	6.27			
			90	9.98	6.25			
			100	9.94	6.21			
			110	9.90	6.17			
	16:10	2	120	9.85	6.12			
			130	9.70	5.97			
			140	9.65	5.92			
			150	9.64	5.91			
			160	9.62	5.89			
			170	9.61	5.88			
	17:10	3	180	9.59	5.86			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

STEP-DRAWDOWN TEST DATA SHEET

Date: 09-10/Apr./2006

STEP No. : 9/9

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba
GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "
Screen Depth(s): Uncased hole (20.73-85.95m) m
Static Groundwater Level: GL- 3.73 m Screen Length: 65.23 m
Pump Type: (uncased)
Pump Setting: 60.00 m, Discharge (Q): 3,000 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Apr-06	17:10	0	0	9.59	5.86			
			1	9.31	5.58			
			2	9.00	5.27			
			4	8.66	4.93			
			6	8.53	4.80			
			8	8.23	4.50			
			10	8.17	4.44			
			12	8.13	4.40			
			14	8.10	4.37			
			16	8.08	4.35			
			18	8.06	4.33			
			20	8.02	4.29			
			25	7.97	4.24			
			30	7.92	4.19			
			35	7.88	4.15			
			40	7.83	4.10			
			45	7.78	4.05			
			50	7.74	4.01			
			55	7.71	3.98			
	18:10	1	60	7.69	3.96			
			70	7.66	3.93			
			80	7.60	3.87			
			90	7.55	3.82			
			100	7.50	3.77			
			110	7.48	3.75			
	19:10	2	120	7.45	3.72			
			130	7.43	3.70			
			140	7.42	3.69			
			150	7.42	3.69			
			160	7.40	3.67			
			170	7.36	3.63			
	20:10	3	180	7.33	3.60			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (36/76) DATA SHEET No. : 1/2**

Date: 10-12/Apr./2006

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba
GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "
Screen Depth(s): Uncased hole (20.73-85.95m) m
Static Groundwater Level: GL- 4.10 m Screen Length: 65.23 m
Pump Type: Submersible Pump (uncased)
Pump Setting: 60.00 m, Discharge (Q): 14,400 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
10-Apr-06	21:00		0	4.10	0			
			1	8.37	4.27			
			2	12.88	8.78			
			3	13.42	9.32			
			4	14.35	10.25			
			5	14.64	10.54			
			6	14.86	10.76			
			8	15.12	11.02			
			10	15.33	11.23			
			15	15.70	11.60			
			20	16.00	11.90			
			25	16.20	12.10			
			30	16.38	12.28			
			35	16.58	12.48			
			40	16.75	12.65			
			45	16.82	12.72			
			50	16.94	12.84			
			55	17.09	12.99			
	22:00	1	60	17.20	13.10			
			70	17.42	13.32			
			80	17.67	13.57			
			90	17.72	13.62			
			100	17.78	13.68			
			110	17.84	13.74			
	23:00	2	120	18.00	13.90			
			140	18.17	14.07			
			160	18.38	14.28			
11-Apr-06	0:00	3	180	18.63	14.53			
			210	18.80	14.70			

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

**CONTINUOUS PUMPING TEST DATA SHEET
PUMPED WELL (36/76) DATA SHEET No. : 2/2**

Date: 10-12/Apr./2006

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba
 GPS Reading: 494415 E, 9775670 N
 Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "
 Screen Depth(s): Uncased hole (20.73-85.95m) m
 Static Groundwater Level: GL- 4.10 m Screen Length: 65.23 m
 Pump Type: Submersible Pump (uncased)
 Pump Setting: 60.00 m, Discharge (Q): 14,400 l/hour

Date	Time	Elapsed Time, [t]		Water Level (GL - m)	Drawdown, [s] (m)	EC (mS/m)	pH (SU)	Temp. (°C)
		(hour)	(min)					
11-Apr-06	1:00	4	240	18.90	14.80			
			270	19.01	14.91			
	2:00	5	300	19.10	15.00			
			330	19.20	15.10			
	3:00	6	360	19.29	15.19			
		4:00	7	420	19.36	15.26		
	5:00		8	480	19.43	15.33		
		6:00	9	540	19.51	15.41		
	7:00		10	600	19.63	15.53		
		8:00	11	660	19.66	15.56		
	9:00		12	720	19.72	15.62		
		10:00	13	780	19.83	15.73		
	11:00		14	840	19.85	15.75		
		12:00	15	900	19.85	15.75		
13:00	16		960	19.85	15.75			
	15:00	18	1080	19.85	15.75			
17:00		20	1200	19.85	15.75			
	18:00	21	1260	19.85	15.75			
19:00		22	1320	19.85	15.75			
	21:00	24	1440	19.85	15.75			
12-Apr-06		0:00	27	1590	19.85	15.75		
	30		1800	19.85	15.75			
	6:00	33	1980	19.85	15.75			
		9:00	36	2160	19.85	15.75		
	12:00		39	2340	19.85	15.75		
		15:00	42	2520	19.85	15.75		
	18:00		45	2700	19.85	15.75		
		21:00	48	2880	19.85	15.75		

**THE SYUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS
IN THE UNITED REPUBLIC OF TANZANIA**

RECOVERY TEST DATA SHEET

Date: 12-13/Apr./2006

PUMPED WELL (36/76) DATA SHEET No. : 1/2

Location: Runere Village, Kwimba District, Mwanza Region Site No.: Kwimba

GPS Reading: 530805 E, 9655088 N

Well No.: 36/76 Well Depth: 85.95 m, Well Diameter: ϕ 6.00 "

Screen Depth(s): Uncased hole (20.73-85.95m) m

Static Groundwater Level: GL- 4.10 m Screen Length: 65.23 m

Pump Type: Submersible Pump (uncased)

Pump Setting: 60.00 m, Discharge (Q): 14,400 l/hour

Date	Time	Time since Pumping Stopped, [t']		Time since Pumping Started, [t] (min)	Time Ratio, [t/t']	Water Level (GL - m)	Residual Drawdown, [s'] (m)
		(hour)	(min)				
12-Apr-06	21:00		0	2880		19.85	15.75
			1	2881	2881.000	17.36	13.26
			2	2882	1441.000	15.94	11.84
			4	2884	721.000	14.17	10.07
			6	2886	481.000	13.22	9.12
			8	2888	361.000	12.48	8.38
			10	2890	289.000	11.59	7.49
			12	2892	241.000	10.76	6.66
			14	2894	206.714	10.45	6.35
			16	2896	181.000	10.28	6.18
			18	2898	161.000	10.09	5.99
			20	2900	145.000	9.90	5.80
			25	2905	116.200	9.79	5.69
			30	2910	97.000	9.51	5.41
			35	2915	83.286	9.38	5.28
	40	2920	73.000	9.24	5.14		
	45	2925	65.000	9.10	5.00		
	50	2930	58.600	8.94	4.84		
	22:00	1	60	2940	49.000	8.79	4.69
		70	2950	42.143	8.53	4.43	
		80	2960	37.000	8.39	4.29	
		90	2970	33.000	8.23	4.13	
		100	2980	29.800	8.08	3.98	
		110	2990	27.182	7.82	3.72	
	23:00	2	120	3000	25.000	7.67	3.57
		150	3030	20.200	7.28	3.18	
13-Apr-06	0:00	3	180	3060	17.000	6.90	2.80
		210	3090	14.714	6.64	2.54	
	1:00	4	240	3120	13.000	6.29	2.19
		270	3150	11.667	5.98	1.88	
	2:00	5	300	3180	10.600	5.80	1.70
		330	3210	9.727	5.61	1.51	
	3:00	6	360	3240	9.000	5.35	1.25
		390	3270	8.385	5.12	1.02	
	4:00	7	420	3300	7.857	4.80	0.70
		450	3330	7.400	4.51	0.41	
	5:00	8	480	3360	7.000	4.19	0.09
		9	540	3420	6.333		
	10	600	3480	5.800			
	11	660	3540	5.364			
	12	720	3600	5.000			