The Chief Executive Officer,
Water Resources Management Authority,
P.O. Box 45250 – 00100
NAIROBI

Form: WRMA 009 A
Catchment:
WRMA ID:
File:

Water Resources Management Authority

BOREHOLE COMPLETION RECORD

(To be submitted in triplicate) *(Rule 33)*

Borehole No**: C -**
Borehole Name: **ILMOCHIN PRIMARY SCHOOL**
Formation: **Volcanic rocks**

PARTICULARS OF APPLICANT		**DETAILS**	
1. Full name of applicant(s) (In Block Letters)		**ILMOCHIN PRIMARY SCHOOL**	
2. Category of Applicant - Individual, Group [Association, Society], Company, Institution		**INSTITUTION**	
3. ID Number of Applicant (Individual) or Certificate of Incorporation or Registration for Groups or Companies 4. PIN Number		**G/PE/12210/14**	
Physical Address where water is to be used (see sketch)		**Contact Address of Applicant**	
5. L/R Number(s)		6. Box Number	**731**
7. Village(s)/Ward(s)	**ILMOCHIN**	8. Town	**NAROK**
9. Sub-location(s)	**ENDOINYO-NARASHA**	10. Post Code	**40700**
11. Location(s)	**OLKINYEI**	12. Telephone Contact (Landline)	**+254720369229**
13. Division(s)	**SIANA**	14. Telephone Contact (Mobile)	**+254720369229**
15. District(s)	**NAROK WEST**	16. Email Contact	**anthonykamoiro@gmail.com**
PARTICULARS OF CONTRACTOR		**BETTERLINE WATER LTD**	
17. Box Number	**27277**	22. License Number	**WD/WC/2769**
18. Town	**NAIROBI**	23. Gazetted On	**02/02/2021**
19. Post Code	**00100**	24. Drilling Supervisor	**MR. WILSON JUMA**
20. Telephone Contact (Landline)	**0736948511**	25. Type and Make of Drill Rig	**D.T.H.3000 , ROTARY RIG**
21. Telephone Contact (Mobile)	**0722619402**		
22. Email Contact	**info@betterlinewater.com**		
INTENDED USE OF WATER			
Public W.S.; Irrigation.; Industries.; Domestic.; Stock, other		**Domestic**	
PARTICULARS OF BOREHOLE			
Type of Borehole: - Drilled; Driven; Bored; Jetted; Other		**DRILLED**	
Borehole Construction (also *see* sketch page 3)			

Drilling started (date)	**19/05/2022**	Drilling completed (date)	**27/05/2022**	All work completed (date)	**03/06/2022**
Total Depth: Reported (m)	**250**	Measured (m)	**250**	Final (back-filled) Depth (m)	**Nil**
Hole Diameter (mm)	**254**	From (m)	**0**	To (m)	**12**
Hole Diameter (mm)	**203**	From (m)	**6**	To (m)	**250**
Hole Diameter (mm)		From (m)		To (m)	
Hole Diameter (mm)		From (m)		To (m)	

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Permanent Casing									
Plain									
Type	Mild steel	Diam (mm)	**254** **203**	Length (m)	**12** **178**	From (m)	**0** **0** **154** **166** **184** **208** **232** **244**	To (m)	**12** **142** **160** **172** **190** **214** **238** **250**
Type		Diam (mm)		Length (m)		From (m)		To (m)	
Slotted or Perforated:			**Slotted**						
Size and Description of Openings									
Type	Mild steel	Diam (mm)	203	Length (m)	**72**	From (m)	**142** **160** **172** **190** **214** **238**	To (m)	**154** **166** **184** **208** **232** **244**
Type		Diam (mm)		Length (m)		From (m)		To (m) To (m) To(m)	
Screen:									
Type and Make									

Diameter (mm)		Length (m)		Set from (m)		To (m)	

Gravel Pack					
Size of grains (mm)	**2-4**	Roundness (good, fair, poor)	**GOOD**	Volume inserted in annular Space (m3)	**12 TONS**
		From (m)	**0**	To (m)	**250**
Open Hole					
Diam (mm)		From (m)		To (m)	

Aquifer			
1st Water Struck at (m)	**174**	Water Rest Level (m)	**67.30**
2nd Water Struck at (m) 3rd water struck at (m)	**239**	Water Rest Level (m)	
Main Aquifer Struck at (m)	**174**	Water Rest Level (m)	

Water bearing material	W/ fractured trachytes,tuffs	From (m)	**172** **238**	To (m)	**184** **244**
Other Aquifers, Remarks, etc (also *see* log on page3)	**-**				

***Yield*: SWL (m)**	**67.30**	PWL (m below surface)	**148.75**	Discharge (litres per minute)	**141.67**
After pumping (hours)		**24**	Recovered to SWL in (minutes)		**75.46m(1hour)**
Expected production discharge (litres per hour)		**8,500**	With pump set at (m below surface)		**234**

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Pumping Test Record in Summary (Detailed test records on attached sheets): (all depth measurements to be in metres below ground surface)		
	Test No. 1	**Test No. 2**
Date of Test (day, month, year)	**2nd -3rd June 2022**	
Depth of Borehole at time of test (m)	**250m**	
Water Entry (perforations or screen setting at time of test)		
Static Water (SWL) before test (m)	**67.30m**	
Type of Pump (Bailler) used	**SP 5/60**	
Depth of Pump intake (m)	**234m**	
Discharge (in litres per minute)	**141.67 l/m**	
Pumping Water Level (PWL m)	**148.75 m**	
After pumping continuously for (hours)	**24**	
Time of Recovery to Original SWL (minutes)		
Rate of Recovery-WL after 5 minutes (m)	**133.30**	
Rate of Recovery-WL after 20 minutes (m)	**97.70**	
Rate of Recovery-WL after 60 minutes (m)	**75.46**	
Rate of Recovery-WL after 120 minutes (m)		

(Additional pumping tests to be mentioned in REMARKS and included with file).
Government representative witnessing the test……..…….

Quality of Water					
Sample (Yes/No)	**clear**	Collected at (hour)	**1402**	On (date)	**03/06/2022**
Sediment		Taste		Odour	
Colour		Temperature (0c)		Spec. Conductivity (μmho/cm^3)	

Remarks: (drilling difficulties, gravel-pack details, all pertinent information about the drilling and completion of the hole)	DRILLING WENT ON WELL WITHOUT ANY CHALLENGES

Drilling Supervisor		*Drilling Contractor*	
Signature		Signature	
Name	**WILSON JUMA**	Name	**BETTERLINE WATER LIMITED**
Date	**06/06/2022**	Date	**06/06/2022**

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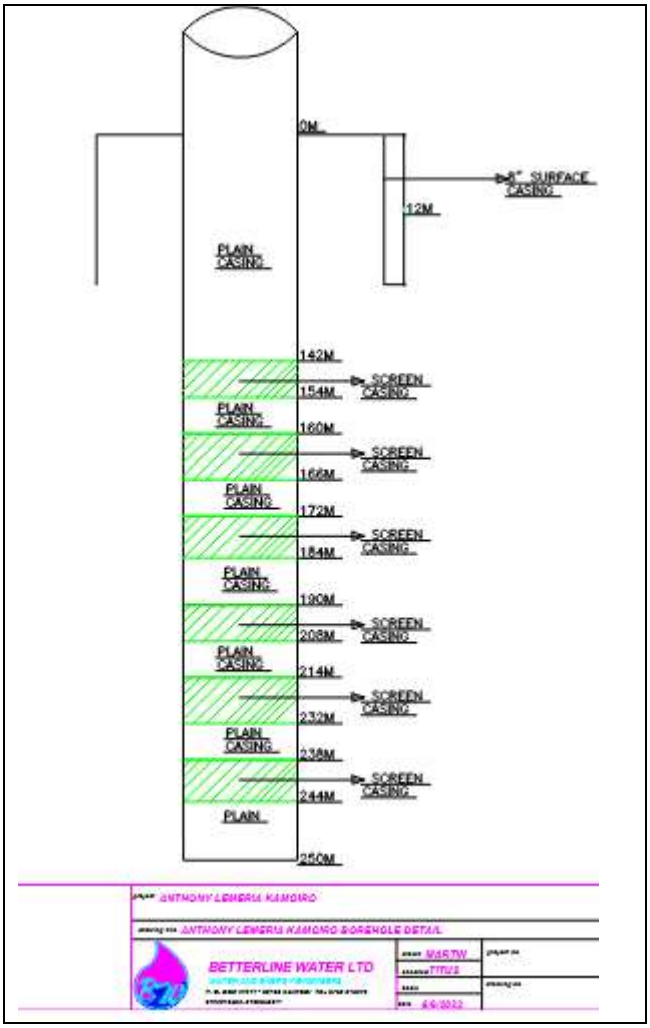
Borehole No. **C - 25263**

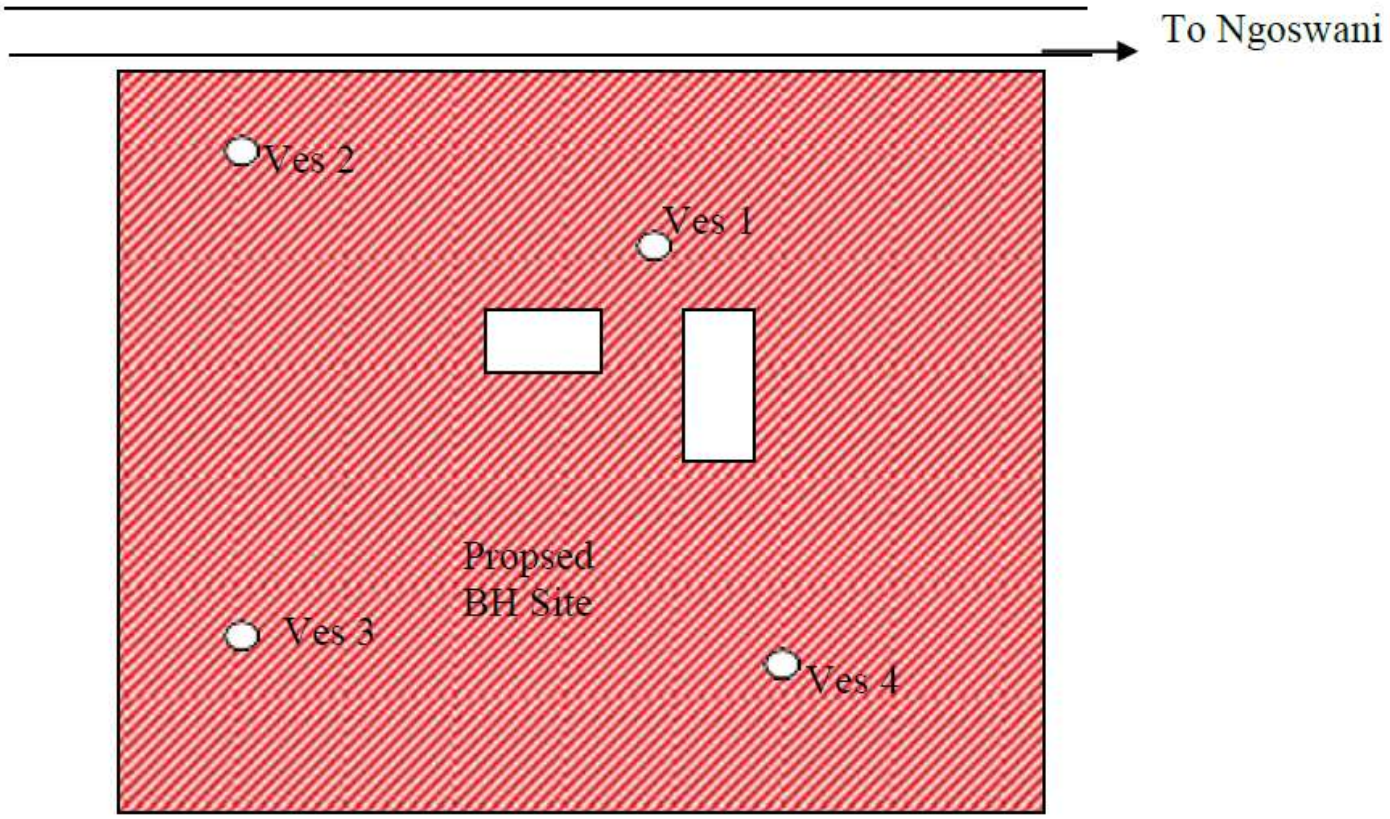
1. *Driller's Log.*

From (m.)	To (m.)	Drilling Rate (m. /hr.)	Description of Formation Penetrated
0	2.50		Top soils.
2.50	12.30		Highly Weathered Sub surface soils
12.30	25.40		Highly Weathered Tuffs
25.40	250.00		Top fractured welded tuffs; middle-Fractured phonolites

12. *Sketch of Borehole Construction*:



13. *Location Sketch*: (To be sketched by the driller on the site, showing roads, tracks and prominent land marks, with road distances to the nearest town or trading centre and to water source).


To Ngoswani
Ves 2
Ves 1
Propsed
BH Site
Ves 3
Ves 4

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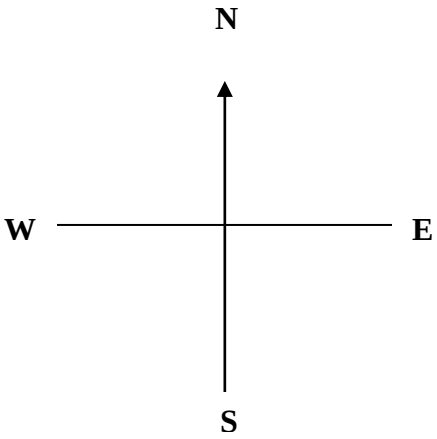

UTM SITE COORDINATES

- **37M 0778821E**
- **UTM 9855884N**

For Official Use Only

Entered on Schedule…….. (Yes/No) Water Sample Received……..(Yes/No)
Drilling Samples Received ..…….. (Yes/No)Chemical Analysis Received……..(Yes/No)
Drilling Samples Filed…….. (Yes/No) Geologist's Log Available……..(Yes/No)
Location Plotted on Maps…….. (Yes/No)

Hydro geological Report No……of……
(*Date*)
Geophysical Curve No…….of……..
(*Date*)

Borehole Data entered and checked by (Name)……..……..Signature……

Permit details

Permit Number ……..... Authorised abstraction ……..… m^3/d
Authorised water use(s) ……...
Pump intake depth …… m bgl Maximum authorised abstraction rate ……. m^3/hr

All Borehole Completion Records duly completed should be sent to the appropriate WRMA Regional Office.