



Water Resources Management Authority

BOREHOLE COMPLETION RECORD

(To be submitted in triplicate)

(Rule 33)

Borehole No: **C -**

Borehole Name: **SIKAWA SECONDARY SCHOOL BOREHOLE**

Formation: **VOLCANIC**

PARTICULARS OF APPLICANT			DETAILS		
1. Full name of applicant(s) (In Block Letters)			SIKAWA SECONDARY 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					
Physical Address where water is to be used (see sketch)			Contact Address of Applicant		
5. L/R Number(s)			6. Box Number	-	
7. Village(s)/Ward(s)			8. Town	-	
9. Sub-location(s)	SIKAWA		10. Post Code	-	
11. Location(s)	SIKAWA		12. Telephone Contact (Landline)	-	
13. Division(s)	KEYAN		14. Telephone Contact (Mobile)	-	
15. Sub-County	TRANSMARA WEST		16. Email Contact	-	
17. County	NAROK		18.		
PARTICULARS OF CONTRACTOR			BETTERLINE WATER LIMITED.		
19. Box Number	27277		22. License Number	WD/WC/4010	
20. Town	NAIROBI		23. Gazetted On	02/02/2021	
21. Post Code	00100		24. Drilling Supervisor	MR. IKUA WAWERU	
22. Telephone Contact (Landline)	+254736948511		25. Type and Make of Drill Rig	MAX DRILL 2023	
23. Telephone Contact (Mobile)	+254722619402				
24. 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)	21.09.2024	Drilling completed (date)	24.09.2024	All work completed (date)	08.10.2024
Total Depth: Reported (m)	200	Measured (m)	200	Final (back-filled) Depth (m)	NIL
Hole Diameter (mm)	215	From (m)	0	To (m)	200
Hole Diameter (mm)		From (m)		To (m)	



Permanent Casing									
Plain									
Type	Mild steel	Diam (mm)	228	Length (m)	6	From (m)	0	To (m)	24
Type		Diam (mm)	152	Length (m)	128	From (m)	0 68 86 98 110 122 140 158 182 194	To (m)	56 74 92 104 116 134 152 170 188 200
Slotted or Perforated:									
Size and Description of Openings									
Type	Mild steel	Diam (mm)	152	Length (m)	72	From (m)	56 74 92 104 116 134 152 170 188	To (m)	68 86 98 110 122 140 158 182 194
Type and Make			Mild Steel -						
Diameter (mm)		Length (m)		Set from (m)		To (m)			
Gravel Pack									
Size of grains (mm)	2-3mm	Roundness (good, fair, poor)	GOOD	Volume inserted in annular Space (m3)	4.2				
		From (m)	0	To (m)	200				
Open Hole									
Diam (mm)	-	From (m)	-	To (m)	-				
Aquifer									
1 st Water Struck at (m)	55-60	Water Rest Level (m)	8.68						
2 nd Water Struck at (m)	78-84	Water Rest Level (m)	8.68						
3 rd water struck at (m)	178-182	Water Rest Level (m)	8.68						
Main Aquifer Struck at (m)		Water Rest Level (m)	8.68						
Water bearing material	Fractured SEDIMENTS	From (m)		To (m)					
Other Aquifers, Remarks, etc (also see log on page3)	-GOOD								
Yield: SWL (m)	8.68m	PWL (m below surface)	182m	Discharge (litres per minute)	40L				
After pumping (hours)	24	Recovered to SWL in (minutes)	240						
Expected production discharge (litres per hour)	2400L	With pump set at (m below surface)	156m						



<i>Pumping Test Record</i> 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)	07.10.2024 TO 08.10.2024	
Depth of Borehole at time of test (m)	200	
Water Entry (perforations or screen setting at time of test)	Refer to page 2	
Static Water (SWL) before test (m)	8.68	
Type of Pump (Bailler) used	SP 3 - 60	
Depth of Pump intake (m)	156	
Discharge (in litres per minute)	40	
Pumping Water Level (PWL m)	182	
After pumping continuously for (hours)	24	
Time of Recovery to Original SWL (minutes)	210	
Rate of Recovery-WL after 5 minutes (m)	174.96m (4.64%)	
Rate of Recovery-WL after 20 minutes (m)	143.44m (22.82%)	
Rate of Recovery-WL after 60 minutes (m)	60.51m (70.65%)	
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)	YES	Collected at (hour)	1800HRS	On (date)	8.10.2024
Sediment		Taste	-	Odour	
Colour (Pt. Co. APHA)		Temperature (0c)	-	Spec. Conductivity ($\mu\text{mho}/\text{cm}^3$)	

<i>Remarks:</i> (drilling difficulties, gravel-pack details, all pertinent information about the drilling and completion of the hole)	Drilling formation good
---	-------------------------

<i>Drilling Supervisor</i>		<i>Drilling Contractor</i>	
Signature		Signature	
Name	MR. IKUA WAWERU	Name	BETTERLINE WATER LTD

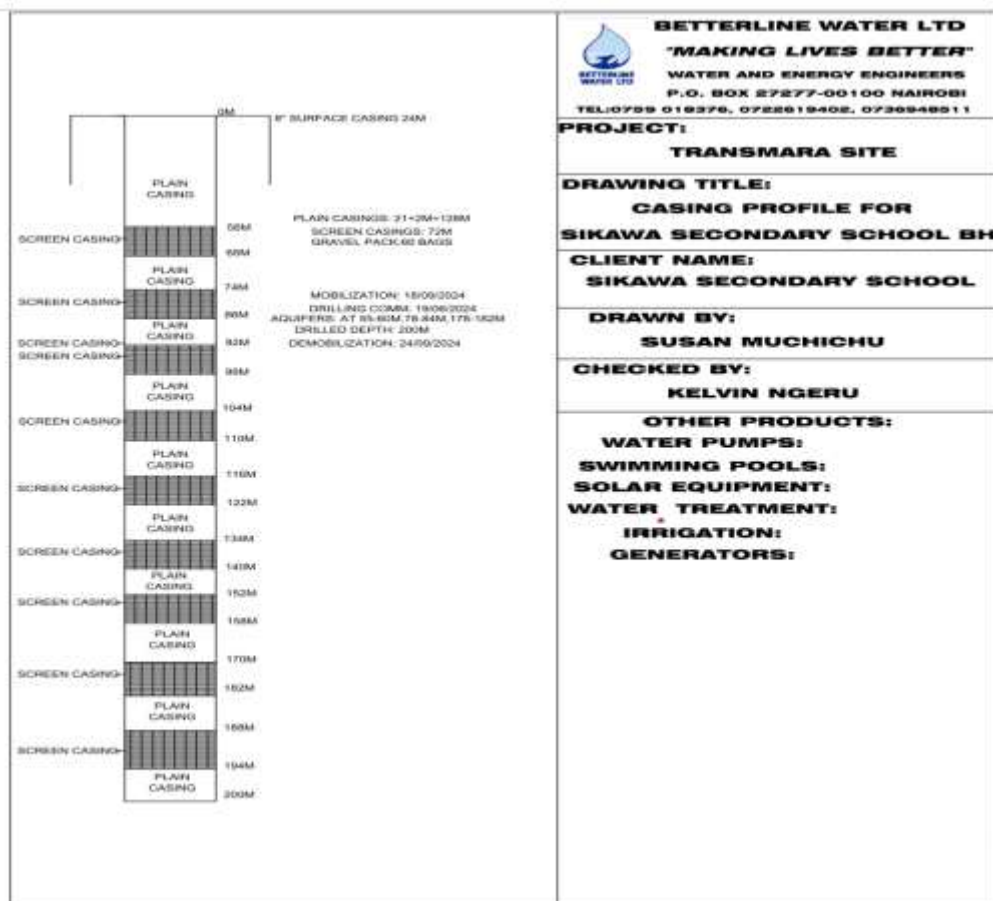


DATE	7.10.2024	08.10.2024
------	-----------	------------

1. *Driller's Log.*

Depth (m)	Resistivity (Ohm-m)	Geological nature
0 – 1	50.3	Lateritic soil
1 – 13	18	Sandy-loam soil
13- 112	97	Partially weathered volcanics
>112	19	Highly weathered volcanics/sediments

2. *Sketch of Borehole Construction:*





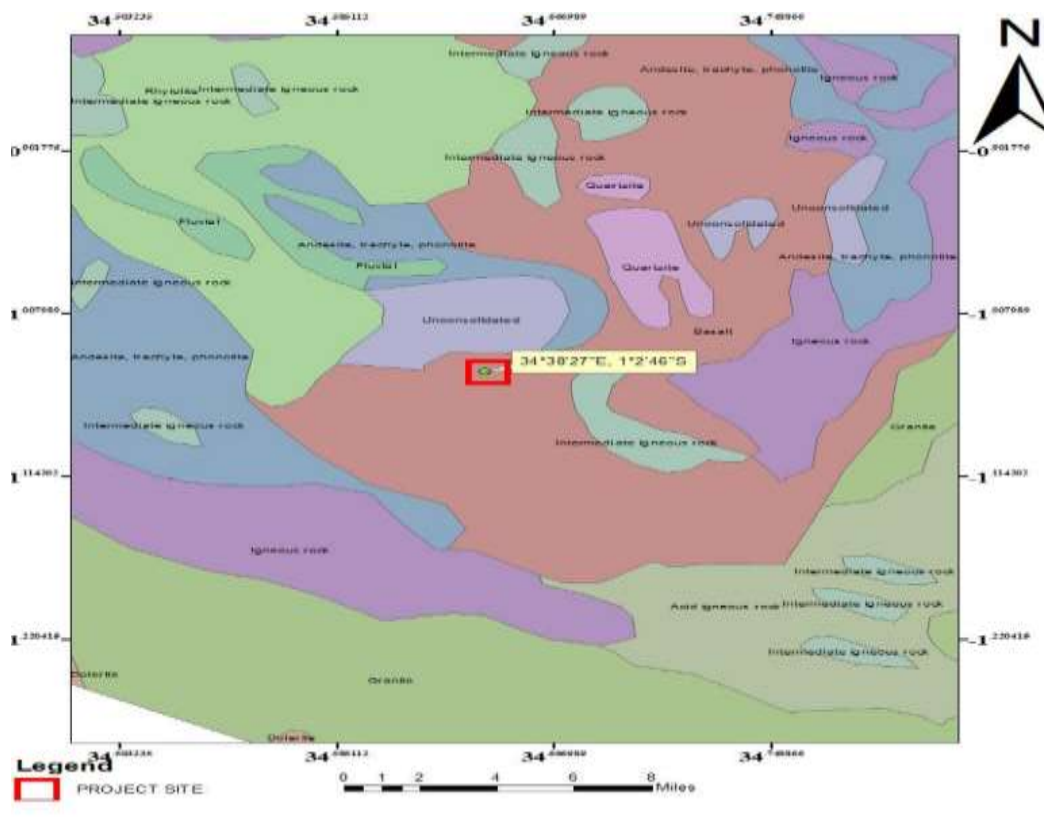
(Geologist's log on attached sheets) .

Remarks or additional information on Driller's log, or on sketch of
Borehole:

Formations encountered are basically Sediments. Borehole sketch not drawn to scale, it shows the casing
design.....



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).



W ————— E
36S E 682555
UTM 9884262. S
Elev. 1555m
S

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

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



Form: WRMA 009A
Catchment: TANA
WRMA ID:WRMA

Permit Number Authorised abstraction m³/d
Authorised water use(s)
Pump intake depth m bgl Maximum authorised abstraction rate m³/hr

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