



Water Resources Authority

Grid Reference for Works (UTM Arc 1960)

Easting: **035 ° 24' 59.45" E**

Northing: **01° 43' 50.028" S**

Altitude m(amsl): **1818**

Zone: **37M**

Map sheet:

BOREHOLE COMPLETION RECORD

(To be submitted in triplicate)

(Rule 55,)

Borehole No:

Borehole Name: **OSITETI PRIMARY SCHOOL**

Formation: **BASEMENT**

PARTICULARS OF APPLICANT		DETAILS	
1. Full name of applicant(s) (In Block Letters)		OSITETI 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 (where available)			
Physical Address where water is to be used (see sketch)		Contact Address of Applicant.	
5. L.R Number(s)		12. Box Number	5006
6. Village(s)/	ESITETI	13. Town	NAIROBI
7. Sub Location	NAROK WEST	14. Post Code	00100
8. Location(s)	NAROK WEST	15. Telephone Contact (Landline)	0756553487
9. Division/Ward(s)	NAROK WEST	16. Telephone Contact (Mobile)	0756553487
10. Sub County	NAROK WEST	17. Email Contact	kennethochieng@yahoo.com
11. County	NAROK		
PARTICULARS OF CONTRACTOR: NAME		BETTERLINE WATER LTD	
18. Box Number	27277	24. License Number	WD/WC/4010
19. Town	NAIROBI	25. Gazetted On	02/02/2021
20. Post Code	00100	26. Drilling Supervisor	WILSON JUMA
21. Telephone Contact (Landline)	0722619402	27. Type and Make of Drill Rig	PRD MAX DRILL
22. Telephone Contact (Mobile)	0722619402		
23. 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			
Borehole Construction (also see sketch page 3)			

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



Form: **WRA**
Basin Area: **ATH**
WRA ID:
File No:

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Drilling started (date)	04/12/2023	Drilling completed (date)	05/12/2023	All work completed (date)	17/12/2023
Total Depth: Reported (m)	200	Measured (m)	200	Final (back-filled) Depth (m)	Nil
Hole Diameter (mm)	216	From (m)	0	To (m)	200
Hole Diameter (mm)		From (m)		To (m)	
Hole Diameter (mm)		From (m)		To (m)	
Hole Diameter (mm)		From (m)		To (m)	



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Permanent Casing									
Plain									
Type		Diam (mm)	203	Length (m)	2.5	From (m)	0	To (m)	1.2
Type		Diam (mm)	152	Length (m)	128	From (m)	0 50 104 116 134 146 170 194	To (m)	38 80 110 122 140 164 188 200
Type		Diam (mm)		Length (m)		From (m)		To (m)	
Slotted or Perforated:									
Size and Description of Openings									
Type		Diam (mm)	152	Length (m)	72	From (m)	38 80 110 122 140 164 188	To (m)	50 104 116 134 146 170 194
Type		Diam (mm)		Length (m)		From (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)		To (m)					
Open Hole									
Diam. (mm)		From (m)		To (m)					
Aquifer									
1 st Water Struck at (m)	85 – 95	Water Rest Level (m)							
2 nd Water Struck at (m)	185 – 195	Water Rest Level (m)							
Main Aquifer Struck at (m)	185 – 195	Water Rest Level (m)							
Water bearing material		From (m)		To (m)					

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Form:
Basin Area: **AIH**
WRA ID:
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Other Aquifers, Remarks, etc (also see log on page3)					
Yield: SWL (m)	2.7	PWL (m below surface)	83.05	Discharge (litres per minute)	45



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After pumping (hours)		Recovered to SWL in (minutes)	120min
Expected production discharge (litres per hour)	2,700	With pump set at (m below surface)	186

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)	16th to 17th Dec 2023	
Depth of Borehole at time of test (m)	200m	
Water Entry (perforations or screen setting at time of test)	Refer to the Drillers report	
	To (m)	To (m)
Static Water (SWL) before test (m)	6.9m	
Type of Pump (Bailer) used	SP 2-48	
Depth of Pump intake (m)	186m	
Discharge (in litres per minute)	45 L	
Pumping Water Level (PWL m)	83.05	
After pumping continuously for (hours)	24 Hrs	
Time of Recovery to Original SWL (minutes)	120	
Rate of Recovery-WL after 5 minutes (m)	78.43m	
Rate of Recovery-WL after 20 minutes (m)	60.89m	
Rate of Recovery-WL after 60 minutes (m)	24.30m	
Rate of Recovery-WL after 180 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)	0312	On (date)	17/12/2023
Sediment		Taste		Odour	
Colour		Temperature (0c)		Spec. Conductivity ($\mu\text{mho}/\text{cm}^3$)	

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



Form:
Basin Area: **AIH**
WRA ID:
File No:

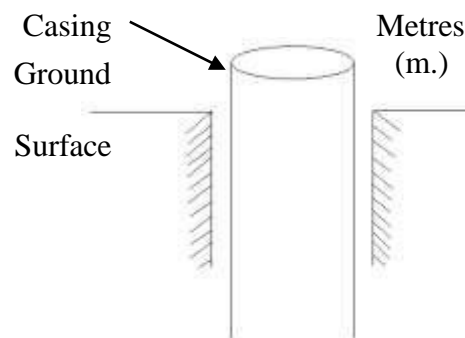
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<i>Drilling Supervisor</i>		<i>Drilling Contractor</i>	
Signature		Signature	
Name	WILSON JUMA	Name	BETTERLINE WATER LTD
Date	24/11/2023	Date	24/11/2023

Borehole No:

12. Sketch of Borehole Construction:

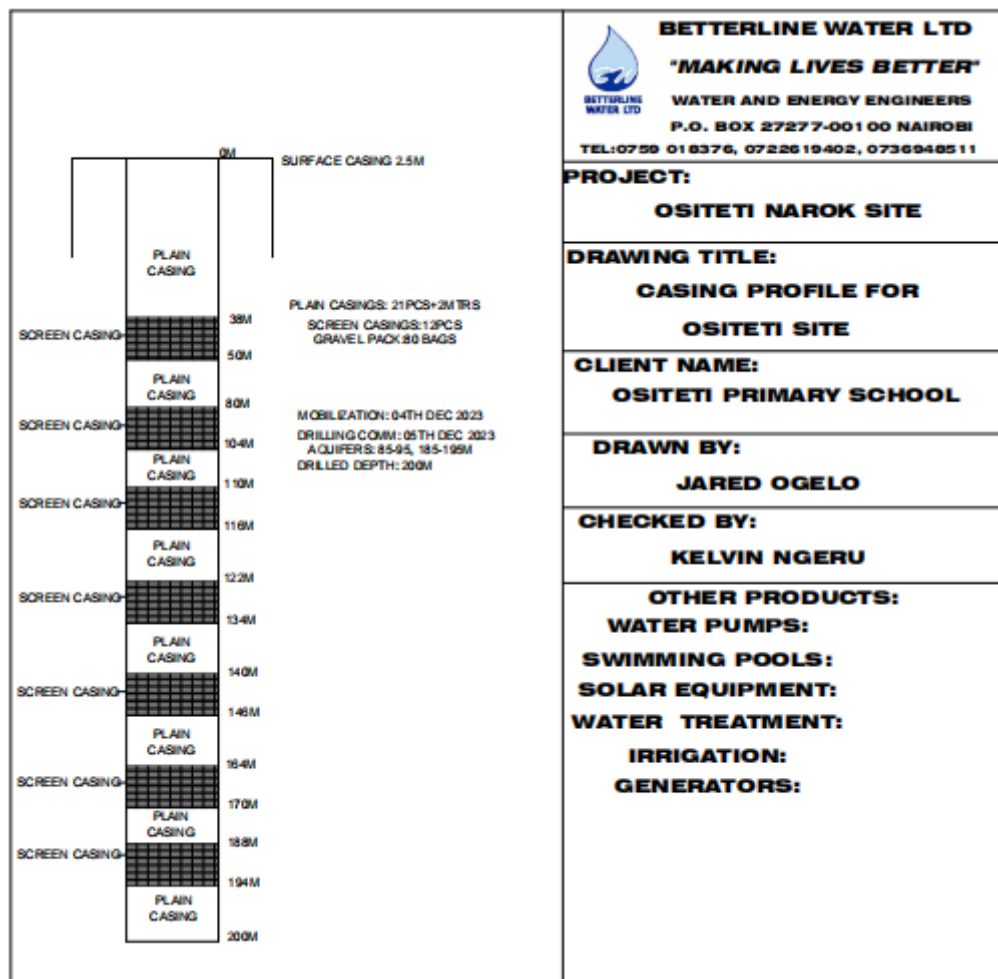
[illegible]

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

[illegible]

Total depth
(Sketch to include: - depth and changes of hole diameter; casing positions, manner of casing (of different diam.) connections, and casing connection to screen; depths of screens or slotted casing lengths; how casing is closed at bottom; formation caving zones; and any other pertinent information).

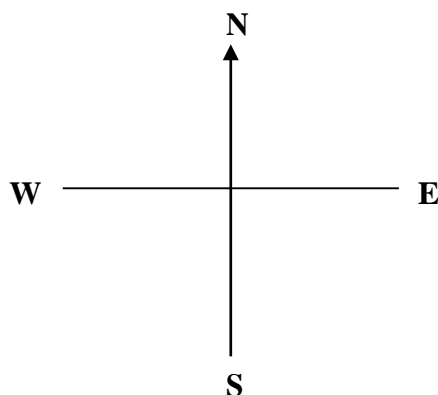
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13. *Location Sketch:* (To be sketched by the driller on the site, showing roads, tracks and prominent land marks, with road distances to nearest town or trading centre and to water source).



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**COORDINATES: 035° 24' 59.45" S
01° 43' 50.42" E**

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 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 WRA Sub-basin Office.