

MINISTRY OF HEALTH

Mobile: 0714 995000

Wireless: 020-2336300, 020-2336216, 020-2336214

Telephone: +254-20-2725806/7

and +254-20-2725873/4 (four lines)

Fax: +254-20-2717567

E-mail: gchemist@wananchi.com

govchem@health.go.ke when replying please quote III/14/15/(78)

GOVERNMENT CHEMIST'S DEPARTMENT P.O. Box 20753-00202, KNH NAIROBI

27th February,2015 xxx0

Ref. No.

REPORT ON CHEMICAL ANALYSIS OF WATER

Laboratory sample No. W 364/14/15

Sender: Spar Drilling Co. Ltd

P.O Box 40590, NAIROBI

Source: Borehole: Samuel King'ola (Matuu)

Date Received: 17/2/2015

Date sample taken

PHYSICAL TESTS

Colour:	_	(Hazen Units)	Turbidity:	Clear	(J.T.U.'s)
Deposit	None		Odour:	None	(T.O.N)
Taste	- -				
pH:	7.2		Electrical Conductivity at 25 ° _C (microsiemens/cm)		
					507.0

CHEMICAL TESTS

	Results mg/l(ppm)	Max guideline value mg/l(ppm)
Total Alkalinity as CaCO ₃	200.0	500.0
Phenolphthalein (CO ₃) =	Nil	
Methyl Orange (HCO ₃)-	200.0	
Chloride (Cl)-	100.0	250.0
Sulphate(SO ₄)=		250.0
Nitrate (NO ₃)-	金色。1000	
Nitrite (NO ₂)-	0.01	3.0
Fluoride (F)		1.5
Total Anions.	The same of the sa	U. S.

		Max guideline
	Results mg/l(ppm)	value mg/l(ppm)
Sodium (Na)+	89.7	200.0
Potassium (K)+	6.8	-
Calcium (Ca)++	24.0	
Magnesium (Mg)++	9.6	-
Iron (Total) (Fe)+++	Not detected	0.3
Manganese (Mn)++	Not detected	0.5
Ammonia-Free & Saline (N)	-	
Ammonia-Albuminoid (N)	-	
Total Cations		
Carbonate Hardness as (CaCO ₃)	100.0	_
Non-Carbonate hardness as (CaCO ₃)	Nil	
Total Hardness as (CaCO ₃)	100.0	500.0
Free Carbon Dioxide	-	
Silica (SiO ₂)	30.0	
Oxygen absorbed. 4 hr. at 27°C(P.V.)	0.5	1.0
Total Dissolved Solids, residue dried at 180°C	355.0	1000.0
Optional Parameters (done on request)		
Lead (Pb ²⁺)		
Copper (Cu ²⁺)		
Zinc (Zn ²⁺)		

REMARKS:

Moderately soft and neutral water that is well mineralized. On the basis of the tests done the water is chemically fit for human consumption.

Date .. 27/2/2015

F. M. MAINA

For: Government Chemist