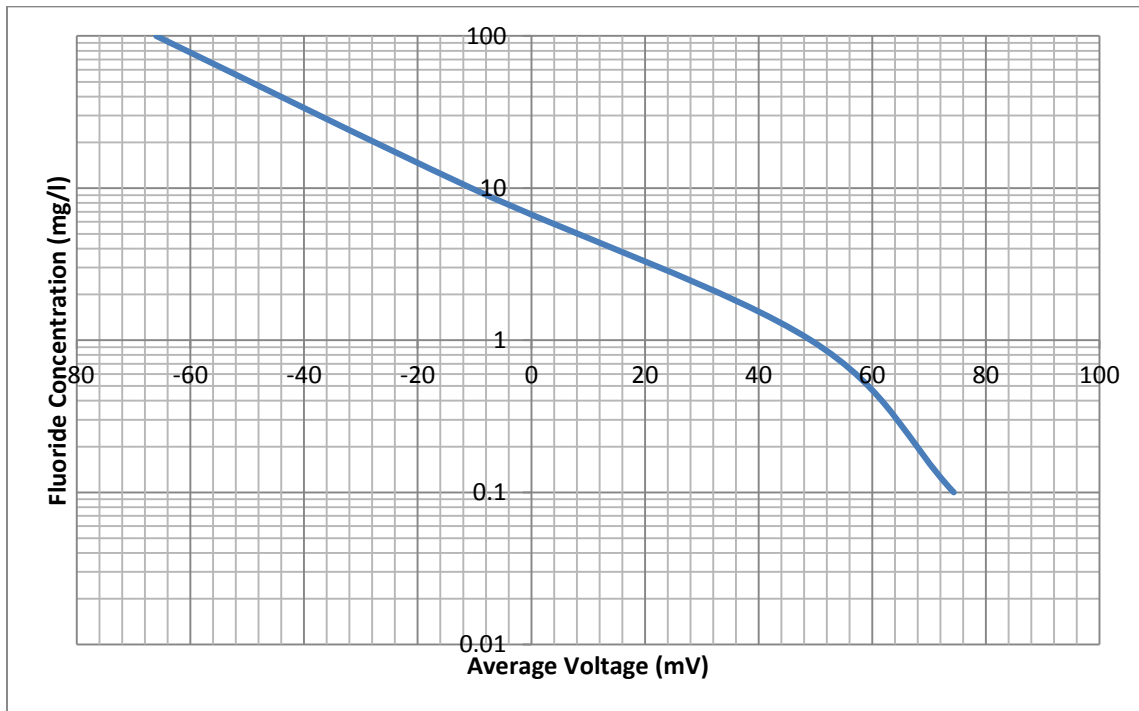


APPENDIX 1

Fluoride potentials for the determination of the calibration slope

Standard F ⁻ in mg/l	potential 1 in mV	Potential 2 in mV	Average mV
0.1	74.3	74.4	74.35
1.0	48.7	49.7	49.2
10	-10.6	-10.5	-10.55
100	-67.1	-64.9	-66

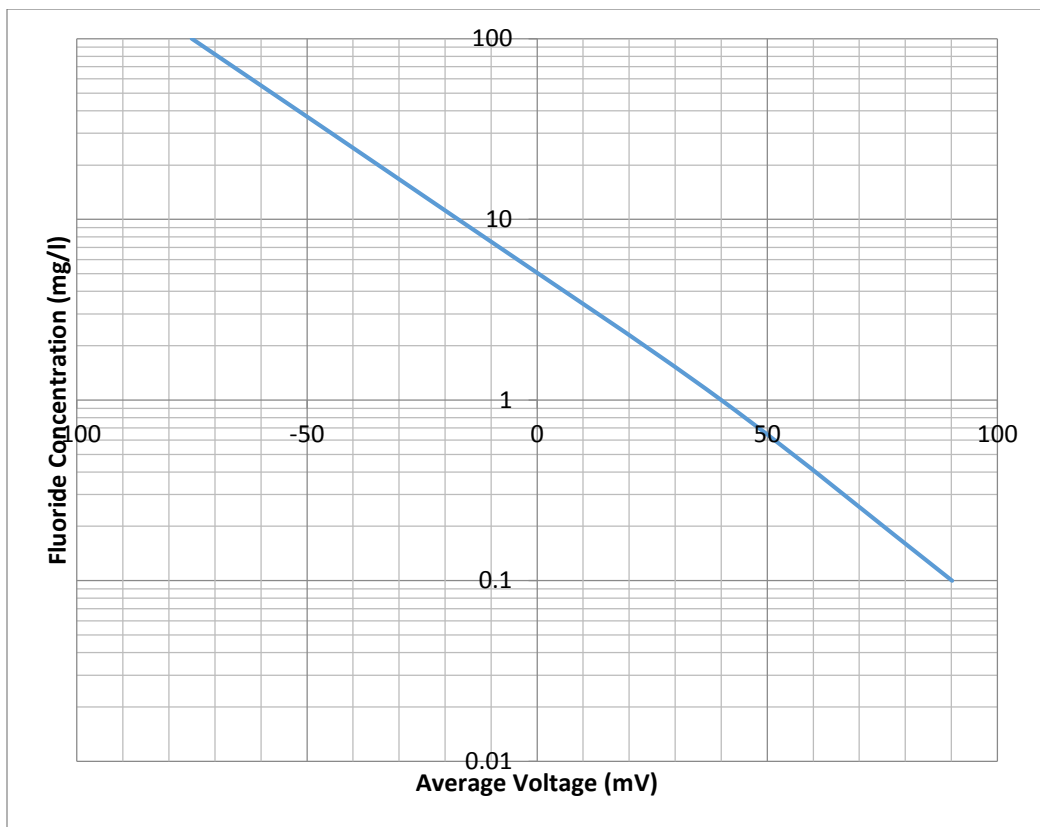


Graph of fluoride concentration against average potential

APPENDIX 2

Standard concentration fluoride potentials

Standard F ⁻ in mg/l	Potential 1 mV	Potential 2 mV	Average mV
0.1	88.8	91.5	90.15
1.0	39.5	40.5	40
10	-17.2	-17.1	-17.15
100	-74.5	-75.5	-75.0



Graph of fluoride concentration against average potential

APPENDIX 3

Fluoride concentration after defluoridation by Mwea clay

Borehole	Potential 1 in mV	Potential 2 in mV	Average potential in mV	Fluoride concentration in mg/l
Cathywater supply	-2.5	-3.7	-3.1	5.5
Naivas carwash	-7.6	-6.8	-7.2	6.3
Mama shiro	20.5	21.2	20.85	2.1
D.M.	4.4	3.3	3.85	4.5
Olive Court	22.5	21.6	22.05	2
Wachira	0.9	0.1	0.5	5
Kichinjio	-10.8	-10.9	-10.85	7

Fluoride concentration after defluoridation by Syokimau clay

Borehole	Potential 1 in mV	Potential 2 in mV	Average potential in mV	mg/l
Cathy water supply	-2.3	-3.3	-2.8	5.1
Naivas carwash	-1.1	-2.0	-1.55	4.9
Mama shiro	13.8	12.9	13.35	2.8
D.M.	2.9	2.3	2.6	4.3
Olive Court	13.3	12.2	12.75	3.0
Wachira	-4.8	-6.7	5.75	4.0
Kichinjio	-13.3	-14.7	14	2.7

Fluoride concentration after defluoridation by Chepsion clay

Borehole	Potential 1 in mV	Potential 2 in mV	Average potential in mV	mg/l
Cathy water supply	-5.3	-6.3	-5.8	6.3
Naivas car wash	-9.8	-8.7	-9.25	7.1
Mama shiro	11.0	12.0	11.5	3.2
D.M.	-14.5	-15.4	-14.95	8.5
Olive Court	9.5	7.1	8.3	3.8
Wachira	-8.6	-10.7	-9.65	7.0
Kichinjio	-18.0	-19.4	-18.7	10