

APPENDIX 1: Mean of Raw Data																	
Site	Temp	PO4	NO3	NH3	Cl-	pH	Na	Mg	K	Ca	Conductivity	TDS	Salinity	Hardness	DO	%O2	Coliform
AG1	28.90 0	18.34 5	30.53 5	42.57 5	199.5 00	6.95 6	2.31 0	1.84 5	2.330	9.715	606.200	322.6 00	0.280	300.00 0	0.22 0	2.870	290.00 0
AG2	28.80 0	21.41 5	40.48 0	54.77 0	245.0 00	6.99 6	2.93 0	2.17 5	2.850	14.05 0	882.600	472.4 00	0.420	380.00 0	0.73 0	10.34 0	1600.0 00
AG3	29.90 0	17.40 5	26.26 5	31.82 0	150.0 00	7.23 4	1.91 0	1.67 0	1.720	8.035	426.400	226.8 00	0.200	240.00 0	0.34 4	4.040	535.00 0
AG4	29.30 0	21.49 5	44.81 5	63.96 0	355.0 00	7.51 6	3.42 0	2.26 5	3.300	15.29 5	1014.600	540.0 00	0.500	455.00 0	0.64 0	6.780	1600.0 00
AG5	29.40 0	19.34 0	35.05 5	32.60 5	235.0 00	7.16 0	2.51 5	1.94 0	2.655	11.05 5	787.600	419.8 00	0.380	330.00 0	0.37 6	4.200	1600.0 00
AG6	29.40 0	17.30 5	27.37 0	31.36 5	235.0 00	6.78 0	1.91 0	1.63 5	1.910	7.565	581.800	309.4 00	0.280	245.00 0	0.43 0	4.760	815.00 0
AG7	29.36 0	17.72 0	32.07 5	47.27 5	295.0 00	7.14 2	2.38 5	1.94 5	2.440	11.08 0	708.600	378.0 00	0.360	305.00 0	0.30 2	3.240	950.00 0
AG8	29.00 0	16.47 0	27.07 5	41.41 5	215.0 00	7.01 8	2.04 0	1.74 5	2.075	8.140	594.800	316.0 00	0.280	255.00 0	0.33 4	4.020	260.00 0
AG9	29.70 0	18.21 5	33.82 0	40.83 5	255.0 00	6.88 6	2.25 0	1.89 5	2.300	11.39 0	636.600	338.6 00	0.300	315.00 0	0.26 4	3.660	825.00 0
AG10	29.60 0	18.70 5	35.38 0	53.44 0	325.0 00	7.10 8	2.63 0	2.09 5	2.550	12.66 5	802.400	428.2 00	0.360	340.00 0	0.21 8	2.440	625.00 0
AG11	29.40 0	21.37 0	42.41 0	62.40 5	295.0 00	7.01 4	3.14 0	2.18 5	3.200	14.98 0	812.000	432.4 00	0.380	420.00 0	0.27 4	3.200	1050.0 00
AG12	31.20 0	23.99 0	60.53 5	80.94 5	430.0 00	7.27 2	3.82 5	3.51 0	3.895	16.08 5	1170.000	624.6 00	0.560	600.00 0	0.37 8	4.600	1600.0 00
AG13	29.20 0	23.12 5	48.92 0	73.28 5	475.0 00	7.46 0	4.11 0	3.44 5	4.045	16.81 0	1340.400	716.0 00	0.620	610.00 0	0.63 2	7.300	1600.0 00
AG14	28.60 0	21.91 0	42.38 5	63.50 5	430.0 00	7.61 0	3.34 0	2.40 5	3.505	37.11 0	939.800	501.0 00	0.440	465.00 0	0.37 6	4.240	1600.0 00
AG15	28.60 0	21.81 5	47.46 0	73.14 0	465.0 00	7.56 0	3.16 0	2.22 5	3.365	14.61 0	957.400	493.8 00	0.460	465.00 0	0.12 8	1.060	1600.0 00
AG16	29.10 0	21.44 0	42.30 0	62.55 0	315.0 00	6.65 0	3.15 0	2.24 0	3.140	14.66 0	726.700	380.4 00	0.340	415.00 0	0.33 8	4.204	1600.0 00
AG17	29.00 0	18.25 5	32.91 5	40.90 5	245.0 00	6.72 4	2.21 5	1.95 0	2.200	9.910	547.260	288.8 00	0.300	310.00 0	0.27 2	3.860	8.600
AG18	29.20 0	18.63 5	34.86 5	53.45 0	220.0 00	7.50 2	2.18 5	2.08 0	2.415	12.45 0	557.040	296.8 00	0.280	335.00 0	0.18 0	2.020	1050.0 00
AG19	28.90 0	20.03 5	37.12 5	54.15 0	250.0 00	7.27 2	2.67 5	2.12 5	2.690	13.13 0	590.200	322.8 00	0.300	365.00 0	0.30 0	3.420	920.00 0
AG20	29.30 0	21.14 0	39.16 0	61.75 5	340.0 00	6.63 0	2.81 5	2.29 0	2.985	13.97 0	653.460	351.8 00	0.320	395.00 0	0.54 6	5.850	31.000
AK1	29.20 0	12.71 5	17.44 5	19.67 0	75.00 0	6.88 6	1.67 0	1.14 5	1.600	5.010	144.880	73.46 0	0.100	125.00 0	0.15 2	3.560	7.500
AK2	29.80 0	13.48 5	18.55 5	40.89 5	95.00 0	6.87 0	1.95 0	1.45 0	1.910	5.115	186.200	97.16 0	0.100	150.00 0	0.17 4	2.020	1600.0 00
AK3	29.66 0	13.50 0	18.38 0	40.73 0	75.55 0	7.04 6	1.89 0	1.32 5	1.870	5.110	343.800	195.8 00	0.140	150.00 0	0.34 0	4.160	1600.0 00
AK4	29.60 0	13.06 5	18.03 0	20.01 5	75.00 0	6.97 0	1.40 5	1.33 5	1.660	3.825	132.780	73.36 0	0.100	120.00 0	0.65 6	7.460	185.00 0
AK5	29.60 0	6.960	10.06 0	11.56 0	75.00 0	6.01 4	0.76 0	0.83 5	0.890	2.435	88.140	51.14 0	0.100	55.000	0.63 8	7.340	360.00 0
AK6	29.10 0	12.32 5	16.37 5	19.57 5	80.00 0	7.03 4	1.55 0	1.21 5	1.460	3.465	184.720	91.74 0	0.100	110.00 0	0.60 4	5.920	1150.0 00
AK7	29.00 0	13.36 5	15.41 0	17.63 5	100.0 00	5.99 2	1.36 0	1.11 5	1.335	2.975	137.340	74.24 0	0.100	90.000	0.35 2	3.980	900.00 0
AK8	29.70 0	13.01 0	15.86 5	19.20 5	75.00 0	7.16 8	1.62 5	1.25 5	1.670	4.075	157.080	87.48 0	0.100	125.00 0	0.60 8	7.060	1600.0 00
AK9	29.60 0	10.33 0	15.82 0	19.06 0	80.00 0	6.76 6	0.92 5	1.25 5	10.54 0	1.995	186.900	101.7 00	0.100	50.000	0.22 2	2.680	2.000
AK10	29.20 0	13.28 5	18.41 5	19.95 5	95.00 0	6.45 0	1.54 0	1.08 5	1.400	4.000	239.640	125.0 40	0.100	117.50 0	0.19 0	2.280	10.000
AK11	29.20 0	13.03 5	15.32 5	19.30 5	136.0 00	6.96 0	1.91 0	1.66 5	2.130	4.610	200.280	102.3 00	0.100	134.00 0	0.31 6	3.460	1.000

Appendix 2: Coliform count of the well sample (MPN/100ml)

SITE CODE	Distance (m)	Water depth in dry season (m)	Water depth in wet season (m)	Dry Season coliform count (MPN/100ml)	Wet season coliform count (MPN/100ml)
AG1	13	4	2	280	300
AG2	4	4	3	1600	1600
AG3	16	3	2	170	900
AG4	10.5	3	2.5	>1600	>1600
AG5	12.3	3	2.5	>1600	>1600
AG6	29	5	2.2	30	>1600
AG7	7.5	3	2	300	>1600
AG8	7.6	3	1.5	1600	240
AG9	4.4	1.5	0.2	50	>1600
AG10	12	4	2.3	350	900
AG11	10	4.5	2.3	500	>1600
AG12	5	6	5	>1600	>1600
AG13	15.5	4.5	1.5	>1600	>1600
AG14	25	6	2	>1600	>1600
AG15	24	6	2	1600	>1600
AG16	24	4	2	1600	>1600
AG17	18	2	0	8	9.2
AG18	11	1	0.25	500	>1600
AG19	11	0.5	0	240	>1600
AG20	18	1.5	0	13	49
AK1	30	13	12	7	8
AK2	14	6	2.5	1600	>1600
AK3	8.2	6	2.3	>1600	>1600
AK4	22	4	3	130	170
AK5	14.2	8	8	220	500
AK6	13	5	4	900	1600
AK7	15	5	4.4	900	900
AK8	16	15	14	1600	1600
AK9	30.5	15	13	<2	2
AK10	26	4	3	7	13
AK11	30	15	14	0	2

Ag= Agbowo, AK= Akobo