

Sample	Distance $\mu\text{m}$	Distance Norm	Mineral	Ba $\mu\text{g/g}$	Sr $\mu\text{g/g}$	CaO wt.%	MgO wt.%	Na <sub>2</sub> O wt.%
<b>Nile-1</b>	<i>Hippopotamus amphibius</i>		Sudan Upper Nile	Molar M3	21004	Naturhistorisches Museum, Vienna		
NIL1-AB-1	2400	1.224	Dentin	28	190	55.67	2.77	1.35
NIL1-AB-2	2320	1.184	Dentin	29	183	55.56	3.16	1.35
NIL1-AB-3	2240	1.143	Dentin	31	187	55.03	3.23	1.28
NIL1-AB-4	2160	1.102	Dentin	35	189	56.22	3.10	1.13
NIL1-AB-5	2080	1.061	Dentin	30	182	56.02	3.16	1.19
NIL1-AB-6	2000	1.020	Dentin	29	187	56.28	3.06	1.09
NIL1-AB-7	1920	0.980	Enamel	33	214	54.07	0.39	1.50
NIL1-AB-8	1840	0.939	Enamel	26	206	54.20	0.38	1.41
NIL1-AB-9	1760	0.898	Enamel	25	207	54.27	0.38	1.46
NIL1-AB-10	1680	0.857	Enamel	21	202	54.10	0.36	1.54
NIL1-AB-11	1600	0.816	Enamel	19	196	54.26	0.36	1.32
NIL1-AB-12	1520	0.776	Enamel	19	192	54.16	0.31	1.41
NIL1-AB-13	1440	0.735	Enamel	18	185	54.35	0.31	1.43
NIL1-AB-14	1360	0.694	Enamel	16	176	54.17	0.30	1.27
NIL1-AB-15	1280	0.653	Enamel	17	175	53.94	0.32	1.25
NIL1-AB-16	1200	0.612	Enamel	18	170	54.18	0.29	1.30
NIL1-AB-17	1120	0.571	Enamel	17	169	54.10	0.29	1.12
NIL1-AB-18	1040	0.531	Enamel	15	164	54.36	0.26	1.16
NIL1-AB-19	960	0.490	Enamel	14	160	54.13	0.24	1.18
NIL1-AB-20	880	0.449	Enamel	14	155	54.43	0.24	1.05
NIL1-AB-21	800	0.408	Enamel	14	154	54.59	0.21	1.10
NIL1-AB-22	720	0.367	Enamel	15	153	54.53	0.23	1.03
NIL1-AB-23	640	0.327	Enamel	13	147	54.60	0.24	1.04
NIL1-AB-24	560	0.286	Enamel	12	146	54.28	0.23	0.97
NIL1-AB-25	480	0.245	Enamel	12	142	54.39	0.18	0.96
NIL1-AB-26	400	0.204	Enamel	11	142	54.30	0.20	0.91
NIL1-AB-27	320	0.163	Enamel	10	136	54.35	0.20	1.02
NIL1-AB-28	240	0.122	Enamel	10	135	54.27	0.21	0.91
NIL1-AB-29	160	0.082	Enamel	10	130	54.30	0.19	0.87
NIL1-AB-30	80	0.041	Enamel	9	120	54.30	0.23	0.75
<b>Nile-2</b>	<i>Hippopotamus amphibius</i>		Sudan Upper Nile	Molar M3	21004	Naturhistorisches Museum, Vienna		
NIL2-AB-1	1920	0.985	Enamel	105	365	54.20	0.39	1.23
NIL2-AB-2	1840	0.944	Enamel	104	354	53.95	0.39	1.17
NIL2-AB-3	1760	0.903	Enamel	93	343	54.25	0.35	1.22
NIL2-AB-4	1680	0.862	Enamel	89	347	54.18	0.35	1.17
NIL2-AB-5	1600	0.821	Enamel	80	340	53.89	0.34	1.23
NIL2-AB-6	1520	0.779	Enamel	75	338	53.79	0.34	1.16
NIL2-AB-7	1440	0.738	Enamel	74	341	54.23	0.34	1.06
NIL2-AB-8	1360	0.697	Enamel	68	339	53.95	0.33	1.11

NIL2-AB-9	1280	0.656	Enamel	66	323	54.05	0.32	0.99
NIL2-AB-10	1200	0.615	Enamel	65	333	54.17	0.30	1.14
NIL2-AB-11	1120	0.574	Enamel	62	330	54.48	0.32	1.04
NIL2-AB-12	1040	0.533	Enamel	61	324	54.24	0.32	1.03
NIL2-AB-13	960	0.492	Enamel	58	315	54.43	0.33	0.99
NIL2-AB-14	880	0.451	Enamel	61	322	54.62	0.32	0.97
NIL2-AB-15	800	0.410	Enamel	67	315	53.95	0.46	0.98
NIL2-AB-16	720	0.369	Enamel	67	317	54.53	0.31	0.99
NIL2-AB-17	640	0.328	Enamel	66	307	54.13	0.33	0.91
NIL2-AB-18	560	0.287	Enamel	63	295	54.40	0.28	0.92
NIL2-AB-19	480	0.246	Enamel	64	296	53.90	0.30	0.84
NIL2-AB-20	400	0.205	Enamel	65	293	54.23	0.30	0.95
NIL2-AB-21	320	0.164	Enamel	64	296	54.20	0.29	0.89
NIL2-AB-22	240	0.123	Enamel	63	295	54.19	0.26	0.91
NIL2-AB-23	160	0.082	Enamel	59	277	54.01	0.27	0.95
NIL2-AB-24	80	0.041	Enamel	59	280	54.41	0.24	0.92
NIL2-AB-25	40	0.021	Enamel	57	270	53.86	0.22	0.95

<b>Nile-3</b>	<i>Hippopotamus amphibius</i>		Sudan White Nile	Molar M3	5576	Naturhistorisches Museum, Vienna		
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NIL3 AB-01	2300	0.979	Enamel	227	522	54.91	0.36	1.48
NIL3 AB-02	2200	0.936	Enamel	207	501	54.42	0.35	1.40
NIL3 AB-03	2100	0.894	Enamel	206	496	54.64	0.33	1.36
NIL3 AB-04	2000	0.851	Enamel	175	497	54.80	0.34	1.22
NIL3 AB-05	1900	0.809	Enamel	169	499	54.73	0.35	1.47
NIL3 AB-06	1800	0.766	Enamel	167	480	54.71	0.33	1.39
NIL3 AB-07	1700	0.723	Enamel	147	475	54.44	0.31	1.29
NIL3 AB-08	1600	0.681	Enamel	127	462	54.62	0.32	1.27
NIL3 AB-09	1500	0.638	Enamel	120	453	54.82	0.35	1.26
NIL3 AB-10	1400	0.596	Enamel	116	443	54.98	0.32	1.16
NIL3 AB-11	1300	0.553	Enamel	108	434	54.70	0.33	1.15
NIL3 AB-12	1200	0.511	Enamel	103	432	55.10	0.34	1.15
NIL3 AB-13	1100	0.468	Enamel	100	435	54.80	0.31	1.22
NIL3 AB-14	1000	0.426	Enamel	99	430	55.02	0.31	1.12
NIL3 AB-15	900	0.383	Enamel	98	430	55.38	0.35	1.07
NIL3 AB-16	800	0.340	Enamel	94	431	55.03	0.34	1.08
NIL3 AB-17	700	0.298	Enamel	93	428	55.10	0.30	1.03
NIL3 AB-18	600	0.255	Enamel	98	436	54.86	0.31	0.98
NIL3 AB-19	500	0.213	Enamel	110	435	54.81	0.33	1.00
NIL3 AB-20	400	0.170	Enamel	122	420	55.00	0.27	0.99
NIL3 AB-21	300	0.128	Enamel	120	409	54.79	0.25	0.87
NIL3 AB-22	200	0.085	Enamel	122	400	54.79	0.25	0.91
NIL3 AB-23	100	0.043	Enamel	121	401	54.65	0.30	0.87
NIL3 AB-24	50	0.021	Enamel	115	389	54.84	0.24	0.93

<b>Nile-4</b>	<i>Hippopotamus amphibius</i>		Sudan Blue Nile	Molar M3	4227	Naturhistorisches Museum, Vienna		
NIL4 AB-01	2800	0.982	Enamel	28	190	54.30	0.48	1.65
NIL4 AB-02	2700	0.947	Enamel	29	183	53.65	0.55	1.58
NIL4 AB-03	2600	0.912	Enamel	31	187	54.06	0.50	1.48
NIL4 AB-04	2500	0.877	Enamel	35	189	53.93	0.50	1.59
NIL4 AB-05	2400	0.842	Enamel	30	182	53.95	0.55	1.49
NIL4 AB-06	2300	0.807	Enamel	29	187	53.97	0.53	1.45
NIL4 AB-07	2200	0.772	Enamel	33	214	54.22	0.47	1.39
NIL4 AB-08	2100	0.737	Enamel	26	206	54.54	0.48	1.32
NIL4 AB-09	2000	0.702	Enamel	25	207	54.32	0.51	1.35
NIL4 AB-10	1900	0.667	Enamel	21	202	54.25	0.48	1.27
NIL4 AB-11	1800	0.632	Enamel	19	196	53.89	0.45	1.35
NIL4 AB-12	1700	0.596	Enamel	19	192	53.97	0.49	1.33
NIL4 AB-13	1600	0.561	Enamel	18	185	54.67	0.50	1.22
NIL4 AB-14	1500	0.526	Enamel	16	176	54.50	0.47	1.15
NIL4 AB-15	1400	0.491	Enamel	17	175	54.42	0.41	1.25
NIL4 AB-16	1300	0.456	Enamel	18	170	54.17	0.49	1.17
NIL4 AB-17	1200	0.421	Enamel	17	169	53.89	0.44	1.17
NIL4 AB-18	1100	0.386	Enamel	15	164	54.24	0.44	1.18
NIL4 AB-19	1000	0.351	Enamel	14	160	54.22	0.44	1.14
NIL4 AB-20	900	0.316	Enamel	14	155	54.43	0.44	1.16
NIL4 AB-21	800	0.281	Enamel	14	154	54.30	0.43	1.21
NIL4 AB-22	700	0.246	Enamel	15	153	54.29	0.46	1.15
NIL4 AB-23	600	0.211	Enamel	13	147	54.71	0.48	1.03
NIL4 AB-24	500	0.175	Enamel	12	146	53.97	0.46	1.00
NIL4 AB-25	400	0.140	Enamel	12	142	53.96	0.46	1.13
NIL4 AB-26	300	0.105	Enamel	11	142	54.16	0.44	0.91
NIL4 AB-27	200	0.070	Enamel	10	136	54.17	0.41	0.99
NIL4 AB-28	100	0.035	Enamel	10	135	54.21	0.42	0.86
NIL4 AB-29	50	0.018	Enamel	10	130	54.55	0.34	0.90

Sample	Distance $\mu\text{m}$	Distance Norm	Mineral	Ba $\mu\text{g/g}$	Sr $\mu\text{g/g}$	CaO wt.%	MgO wt.%	Na <sub>2</sub> O wt.%
<b>S-276</b>	<i>Hippopotamus amphibius</i>	Zoo	Molar M3	Collection Inst. Geosciences, University Mainz, Germany				
apical								
S276-1AB-01	50	0.017	Enamel	59	283	55.15	0.30	0.63
S276-1AB-02	126	0.043	Enamel	58	280	55.51	0.23	0.81
S276-1AB-03	252	0.085	Enamel	55	288	55.03	0.34	0.81
S276-1AB-04	378	0.128	Enamel	59	299	55.41	0.23	0.83
S276-1AB-05	504	0.171	Enamel	59	295	55.54	0.29	0.92
S276-1AB-06	630	0.214	Enamel	61	312	55.82	0.28	0.86
S276-1AB-07	756	0.256	Enamel	68	337	55.41	0.27	0.87
S276-1AB-08	882	0.299	Enamel	63	329	55.13	0.22	0.87
S276-1AB-09	1008	0.342	Enamel	62	328	55.77	0.26	1.00
S276-1AB-10	1134	0.384	Enamel	67	343	55.42	0.22	0.94
S276-1AB-11	1260	0.427	Enamel	74	361	55.36	0.30	0.97
S276-1AB-12	1386	0.470	Enamel	74	362	55.43	0.29	1.02
S276-1AB-13	1512	0.513	Enamel	75	380	55.02	0.30	1.09
S276-1AB-14	1638	0.555	Enamel	76	390	55.52	0.32	1.18
S276-1AB-15	1764	0.598	Enamel	87	402	55.36	0.26	1.03
S276-1AB-16	1890	0.641	Enamel	85	401	54.82	0.31	1.10
S276-1AB-17	2016	0.683	Enamel	88	408	54.81	0.30	1.10
S276-1AB-18	2142	0.726	Enamel	88	407	55.08	0.29	1.04
S276-1AB-19	2268	0.769	Enamel	84	409	55.67	0.31	1.11
S276-1AB-20	2394	0.812	Enamel	96	415	55.26	0.32	1.10
S276-1AB-21	2520	0.854	Enamel	102	425	54.88	0.33	1.06
S276-1AB-22	2646	0.897	Enamel	104	441	55.15	0.33	1.22
S276-1AB-23	2772	0.940	Enamel	116	475	55.05	0.35	1.23
S276-1AB-24	2898	0.982	Enamel	123	466	55.13	0.37	1.27
S276-1AB-25	3024	1.025	Dentin	98	374	52.48	1.17	0.97
S276-1AB-26	3150	1.068	Dentin	135	365	50.60	2.05	1.01
S276-1AB-27	3276	1.111	Dentin	137	364	49.49	2.75	1.14
S276-1AB-28	3402	1.153	Dentin	140	369	48.61	2.87	1.10
S276-1AB-29	3528	1.196	Dentin	145	370	49.09	3.16	1.11
S276-1AB-30	3654	1.239	Dentin	128	334	48.60	3.21	1.23
apical								
S276-2AB-01	50	0.009	Cement	312	351	51.04	1.30	0.90
S276-2AB-02	233	0.041	Cement	235	319	52.22	1.30	0.91
S276-2AB-03	466	0.082	Cement	206	301	52.35	1.17	0.94
S276-2AB-04	699	0.123	Cement	171	272	52.89	0.99	1.17
S276-2AB-05	932	0.164	Cement	225	305	53.01	1.10	1.14
S276-2AB-06	1165	0.204	Cement	213	286	53.47	1.01	0.93
S276-2AB-07	1398	0.245	Cement	254	287	52.85	1.12	1.53
S276-2AB-08	1631	0.286	Cement	244	319	52.51	1.41	1.32

S276-2AB-09	1864	0.327	Cement	290	342	51.84	1.25	1.01
S276-2AB-10	2097	0.368	Enamel	93	387	54.53	0.44	0.94
S276-2AB-11	2330	0.409	Enamel	96	341	54.14	0.88	0.98
S276-2AB-12	2563	0.450	Enamel	87	318	54.13	0.85	0.94
S276-2AB-13	2796	0.491	Enamel	69	274	54.54	0.58	0.93
S276-2AB-14	3029	0.531	Enamel	76	311	54.61	0.67	0.85
S276-2AB-15	3262	0.572	Enamel	69	308	55.70	0.39	0.94
S276-2AB-16	3495	0.613	Enamel	66	312	55.67	0.28	0.89
S276-2AB-17	3728	0.654	Enamel	65	322	55.33	0.29	0.96
S276-2AB-18	3961	0.695	Enamel	61	317	55.17	0.28	0.89
S276-2AB-19	4194	0.736	Enamel	63	327	55.30	0.30	0.99
S276-2AB-20	4427	0.777	Enamel	68	344	55.41	0.34	0.99
S276-2AB-21	4660	0.818	Enamel	75	372	55.84	0.34	1.05
S276-2AB-22	4893	0.858	Enamel	81	384	55.26	0.36	1.09
S276-2AB-23	5126	0.899	Enamel	79	370	53.85	0.39	1.19
S276-2AB-24	5359	0.940	Enamel	80	387	55.11	0.40	1.14
S276-2AB-25	5592	0.981	Enamel	106	422	55.27	0.38	1.12
S276-2AB-26	5825	1.022	dentin	115	459	55.36	0.45	1.37
S276-2AB-27	6058	1.063	dentin	121	335	52.79	0.94	1.05
S276-2AB-28	6291	1.104	dentin	144	372	49.40	3.06	1.09
S276-2AB-29	6524	1.145	dentin	145	364	49.38	3.24	1.29
S276-2AB-30	6757	1.185	dentin	138	360	49.45	3.25	1.22
cervical								
S276-3AB-01	50	0.010	Cement	328	404	51.46	1.28	0.91
S276-3AB-02	184	0.036	Cement	240	310	52.10	1.34	0.93
S276-3AB-03	368	0.073	Cement	266	304	53.11	1.19	1.10
S276-3AB-04	552	0.109	Cement	229	335	52.34	1.18	0.96
S276-3AB-05	736	0.146	Cement	213	288	53.26	1.12	0.89
S276-3AB-06	920	0.182	Cement	247	285	52.79	1.03	0.98
S276-3AB-07	1104	0.219	Cement	302	294	51.94	1.22	1.01
S276-3AB-08	1288	0.255	Enamel	57	290	54.88	0.40	0.91
S276-3AB-09	1472	0.291	Enamel	61	292	54.99	0.34	0.92
S276-3AB-10	1656	0.328	Enamel	68	295	55.24	0.36	0.85
S276-3AB-11	1840	0.364	Enamel	79	303	54.76	0.38	1.00
S276-3AB-12	2024	0.401	Enamel	78	303	55.11	0.33	0.91
S276-3AB-13	2208	0.437	Enamel	80	312	55.12	0.36	0.97
S276-3AB-14	2392	0.474	Enamel	84	326	55.57	0.35	0.96
S276-3AB-15	2576	0.510	Enamel	85	327	55.11	0.34	1.01
S276-3AB-16	2760	0.547	Enamel	89	332	55.35	0.36	1.14
S276-3AB-17	2944	0.583	Enamel	99	349	55.33	0.34	1.03
S276-3AB-18	3128	0.619	Enamel	102	364	55.24	0.37	1.15
S276-3AB-19	3312	0.656	Enamel	106	379	54.95	0.36	1.02
S276-3AB-20	3496	0.692	Enamel	104	365	54.84	0.35	1.16
S276-3AB-21	3680	0.729	Enamel	108	379	55.20	0.36	1.15
S276-3AB-22	3864	0.765	Enamel	116	407	55.34	0.38	1.25

S276-3AB-23	4048	0.802	Enamel	115	413	55.73	0.35	1.23
S276-3AB-24	4232	0.838	Enamel	126	449	55.18	0.34	1.13
S276-3AB-25	4416	0.874	Enamel	109	435	55.07	0.30	1.11
S276-3AB-26	4600	0.911	Enamel	109	445	55.30	0.41	1.38
S276-3AB-27	4784	0.947	Enamel	121	432	54.43	0.39	1.28
S276-3AB-28	4968	0.984	Enamel	113	344	52.91	0.81	0.99
S276-3AB-29	5152	1.020	dentin	132	325	50.07	2.23	1.17
longitudinal								
S276-EF-01	100	0.002	Enamel	121	448	55.25	0.32	1.14
S276-EF-02	600	0.011	Enamel	122	428	54.90	0.36	1.14
S276-EF-03	1100	0.021	Enamel	122	435	55.03	0.35	1.13
S276-EF-04	1600	0.030	Enamel	117	423	54.68	0.36	1.20
S276-EF-05	2100	0.039	Enamel	114	428	54.65	0.36	1.14
S276-EF-06	2600	0.049	Enamel	111	428	54.96	0.39	1.15
S276-EF-07	3100	0.058	Enamel	116	433	54.66	0.38	1.22
S276-EF-08	3600	0.067	Enamel	122	443	54.85	0.36	1.13
S276-EF-09	4100	0.077	Enamel	112	440	55.07	0.40	1.31
S276-EF-10	4600	0.086	Enamel	115	438	54.86	0.38	1.28
S276-EF-11	5100	0.095	Enamel	113	438	55.06	0.39	1.18
S276-EF-12	5600	0.105	Enamel	118	442	54.92	0.41	1.30
S276-EF-13	6100	0.114	Enamel	115	440	54.63	0.38	1.28
S276-EF-14	6600	0.123	Enamel	117	443	55.03	0.40	1.26
S276-EF-15	7100	0.133	Enamel	114	427	54.72	0.41	1.21
S276-EF-16	7600	0.142	Enamel	117	435	54.81	0.43	1.26
S276-EF-17	8100	0.151	Enamel	112	415	54.73	0.40	1.19
S276-FG-01	8600	0.161	Enamel	94	399	54.73	0.40	1.19
S276-FG-02	9100	0.170	Enamel	97	404	55.04	0.42	1.18
S276-FG-03	9600	0.179	Enamel	99	408	54.67	0.41	1.20
S276-FG-04	10100	0.189	Enamel	105	416	54.28	0.40	1.22
S276-FG-05	10600	0.198	Enamel	105	411	54.83	0.39	1.23
S276-FG-06	11100	0.207	Enamel	107	407	54.24	0.38	1.20
S276-FG-07	11600	0.217	Enamel	104	414	54.46	0.38	1.29
S276-FG-08	12100	0.226	Enamel	104	413	54.86	0.36	1.21
S276-FG-09	12600	0.236	Enamel	110	422	54.66	0.38	1.20
S276-FG-10	13100	0.245	Enamel	106	413	55.06	0.36	1.29
S276-FG-11	13600	0.254	Enamel	111	427	54.42	0.38	1.26
S276-FG-12	14100	0.264	Enamel	112	427	54.66	0.44	1.31
S276-gh-01	14600	0.273	Enamel	117	435	54.66	0.40	1.24
S276-gh-02	15100	0.282	Enamel	115	436	54.66	0.40	1.24
S276-gh-03	15600	0.292	Enamel	111	423	54.58	0.39	1.29
S276-gh-04	16100	0.301	Enamel	116	440	54.86	0.39	1.34
S276-gh-05	16600	0.310	Enamel	115	432	54.85	0.39	1.32
S276-gh-06	17100	0.320	Enamel	119	433	53.83	0.37	1.33
S276-gh-07	17600	0.329	Enamel	111	422	54.54	0.39	1.35
S276-gh-08	18100	0.338	Enamel	112	424	53.25	0.36	1.26

S276-gh-09	18600	0.348	Enamel	114	427	54.83	0.41	1.39
S276-gh-10	19100	0.357	Enamel	115	424	54.81	0.42	1.29
S276-gh-11	19600	0.366	Enamel	126	426	54.58	0.39	1.37
S276-gh-12	20100	0.376	Enamel	128	417	54.75	0.35	1.34
S276-gh-13	20600	0.385	Enamel	123	414	55.05	0.39	1.35
S276-gh-14	21100	0.394	Enamel	120	404	54.91	0.40	1.38
S276-gh-15	21600	0.404	Enamel	122	404	54.67	0.39	1.28
S276-gh-16	22100	0.413	Enamel	127	400	54.89	0.37	1.29
S276-gh-17	22600	0.422	Enamel	133	405	54.82	0.38	1.41
S276-gh-18	23100	0.432	Enamel	138	414	55.22	0.41	1.40
S276-gh-19	23600	0.441	Enamel	134	408	54.82	0.44	1.29
S276-gh-20	24100	0.450	Enamel	137	403	55.09	0.41	1.35
S276-gh-21	24600	0.460	Enamel	138	410	55.03	0.39	1.30
S276-gh-22	25100	0.469	Enamel	134	401	55.41	0.39	1.28
S276-hi-01	25600	0.479	Enamel	138	415	55.41	0.39	1.28
S276-hi-02	26100	0.488	Enamel	123	418	55.13	0.40	1.23
S276-hi-03	26600	0.497	Enamel	111	417	54.91	0.37	1.24
S276-hi-04	27100	0.507	Enamel	106	414	54.92	0.42	1.13
S276-hi-05	27600	0.516	Enamel	109	434	54.82	0.43	1.12
S276-hi-06	28100	0.525	Enamel	115	428	55.00	0.37	1.17
S276-hi-07	28600	0.535	Enamel	115	425	55.26	0.36	1.17
S276-hi-08	29100	0.544	Enamel	122	431	55.28	0.36	1.17
S276-hi-09	29600	0.553	Enamel	130	443	55.30	0.35	1.12
S276-hi-10	30100	0.563	Enamel	127	438	54.73	0.39	1.10
S276-hi-11	30600	0.572	Enamel	128	421	55.60	0.35	1.07
S276-hi-12	31100	0.581	Enamel	126	411	55.12	0.41	1.30
S276-hi-13	31600	0.591	Enamel	134	426	55.13	0.40	1.21
S276-hi-14	32100	0.600	Enamel	133	425	55.22	0.38	1.27
S276-hi-15	32600	0.609	Enamel	134	425	55.35	0.39	1.34
S276-hi-16	33100	0.619	Enamel	144	420	55.24	0.40	1.23
S276-hi-17	33600	0.628	Enamel	139	406	54.22	0.38	1.18
S276-hi-18	34100	0.637	Enamel	144	401	55.48	0.40	1.27
S276-hi-19	34600	0.647	Enamel	143	398	55.40	0.38	1.15
S276-hi-20	35100	0.656	Enamel	144	402	55.56	0.38	1.26
S276-hi-21	35600	0.665	Enamel	151	403	55.55	0.38	1.18
S276-hi-22	36100	0.675	Enamel	147	395	55.34	0.39	1.24
S276-hi-23	36600	0.684	Enamel	147	389	55.29	0.37	1.25
S276-hi-24	37100	0.693	Enamel	146	392	55.52	0.38	1.31
S276-hi-25	37600	0.703	Enamel	150	386	55.48	0.41	1.21
S276-hi-26	38100	0.712	Enamel	159	405	55.03	0.37	1.32
S276-hi-27	38600	0.721	Enamel	166	414	55.41	0.38	1.30
S276-hi-28	39100	0.731	Enamel	160	402	55.21	0.45	1.35
S276-hi-29	39600	0.740	Enamel	132	408	55.51	0.40	1.27
S276-hi-30	40100	0.750	Enamel	116	409	54.68	0.40	1.27
S276-hi-31	40600	0.759	Enamel	119	430	54.99	0.39	1.27

S276-hi-32	41100	0.768	Enamel	130	441	54.84	0.39	1.28
S276-hi-33	41600	0.778	Enamel	152	469	54.96	0.40	1.32
S276-hi-34	42100	0.787	Enamel	143	448	55.04	0.37	1.17
S276-hi-35	42600	0.796	Enamel	130	401	54.84	0.39	1.22
S276-hi-36	43100	0.806	Enamel	121	418	54.40	0.39	1.17
S276-ij-01	43600	0.815	Enamel	126	436	54.79	0.35	1.19
S276-ij-02	44100	0.824	Enamel	146	388	54.79	0.35	1.19
S276-ij-03	44600	0.834	Enamel	157	390	54.98	0.36	1.32
S276-ij-04	45100	0.843	Enamel	174	388	54.07	0.35	1.35
S276-ij-05	45600	0.852	Enamel	142	368	54.67	0.42	1.30
S276-ij-06	46100	0.862	Enamel	187	386	54.81	0.39	1.21
S276-ij-07	46600	0.871	Enamel	142	368	54.46	0.38	1.29
S276-ij-08	47100	0.880	Enamel	157	393	54.21	0.39	1.44
S276-ij-09	47600	0.890	Enamel	109	367	54.43	0.40	1.33
S276-ij-10	48100	0.899	Enamel	126	378	54.47	0.39	1.23
S276-ij-11	48600	0.908	Enamel	132	383	54.29	0.39	1.29
S276-ij-12	49100	0.918	Enamel	124	375	54.30	0.38	1.31
S276-ij-13	49600	0.927	Enamel	135	367	54.39	0.37	1.40
S276-jk-01	50100	0.936	Enamel	158	367	54.39	0.37	1.40
S276-jk-02	50600	0.946	Enamel	129	367	54.20	0.39	1.47
S276-jk-03	51100	0.955	Enamel	128	375	54.41	0.40	1.43
S276-jk-04	51600	0.964	Enamel	91	352	54.50	0.40	1.47
S276-jk-05	52100	0.974	Enamel	108	318	54.11	0.55	1.62
S276-jk-06	52600	0.983	Enamel	110	323	54.36	0.51	1.33
S276-jk-07	53100	0.993	Enamel	176	464	54.23	0.37	1.29



Sample	Distance $\mu\text{m}$	Distance Norm	Mineral	Ba $\mu\text{g/g}$	Sr $\mu\text{g/g}$	CaO wt.%	MgO wt.%	Na <sub>2</sub> O wt.%
<b>Mal-8</b>	<i>Hippopotamus amphibius</i>	Modern Lake Malawi, Senga Bay		Molar M3	Buy, Safari Beach Lodge			
apical								
Mal-8-1AB-01	75	0.021	Cement	88	332	57.40	1.26	1.32
Mal-8-1AB-02	224	0.063	Enamel	48	348	54.33	0.60	1.08
Mal-8-1AB-03	373	0.104	Enamel	52	383	54.46	0.44	0.94
Mal-8-1AB-04	522	0.146	Enamel	115	379	55.14	0.57	1.05
Mal-8-1AB-05	671	0.188	Enamel	79	360	54.59	0.72	1.05
Mal-8-1AB-06	820	0.229	Enamel	46	351	54.00	0.87	0.95
Mal-8-1AB-07	969	0.271	Enamel	44	361	54.38	0.69	0.97
Mal-8-1AB-08	1118	0.313	Enamel	51	362	55.02	0.41	0.97
Mal-8-1AB-09	1267	0.354	Crack	44	364	55.07	0.43	1.15
Mal-8-1AB-10	1416	0.396	Enamel	40	371	54.86	0.53	1.05
Mal-8-1AB-11	1565	0.438	Enamel	40	385	54.65	0.55	0.98
Mal-8-1AB-12	1714	0.479	Enamel	44	396	55.02	0.43	1.09
Mal-8-1AB-13	1863	0.521	Enamel	48	416	54.87	0.45	1.10
Mal-8-1AB-14	2012	0.563	Enamel	48	411	55.13	0.49	1.18
Mal-8-1AB-15	2161	0.604	Enamel	49	425	54.88	0.43	1.19
Mal-8-1AB-16	2310	0.646	Enamel	51	426	54.89	0.50	1.15
Mal-8-1AB-17	2459	0.688	Enamel	57	462	54.94	0.43	1.18
Mal-8-1AB-18	2608	0.730	Enamel	59	453	55.14	0.42	1.21
Mal-8-1AB-19	2757	0.771	Enamel	66	484	55.08	0.40	1.14
Mal-8-1AB-20	2906	0.813	Enamel	69	475	55.79	0.39	1.35
Mal-8-1AB-21	3055	0.855	Enamel	75	491	54.23	0.44	1.40
Mal-8-1AB-22	3204	0.896	Enamel	80	507	54.73	0.42	1.44
Mal-8-1AB-23	3353	0.938	Enamel	84	528	53.92	0.46	1.35
Mal-8-1AB-24	3502	0.980	Enamel	87	527	54.80	0.46	1.45
Mal-8-1AB-25	3651	1.021	dentin	90	500	55.38	1.18	1.33
Mal-8-1AB-26	3800	1.063	dentin	100	477	53.97	2.74	1.41
Mal-8-1AB-27	3949	1.105	dentin	121	470	53.20	2.68	1.41
Mal-8-1AB-28	4098	1.146	dentin	126	464	51.77	2.76	1.36
central								
Mal-8-1CD-01	75	0.015	Cement	273	447	55.63	1.34	0.89
Mal-8-1CD-02	282	0.057	Cement	259	457	56.49	1.42	1.14
Mal-8-1CD-03	489	0.099	Enamel	104	357	55.13	0.36	0.76
Mal-8-1CD-04	696	0.141	Enamel	36	320	54.53	0.28	0.71
Mal-8-1CD-05	903	0.183	Enamel	37	341	55.15	0.29	0.74
Mal-8-1CD-06	1110	0.225	Enamel	35	357	55.38	0.27	0.86
Mal-8-1CD-07	1317	0.267	Enamel	36	369	55.13	0.28	0.81
Mal-8-1CD-08	1524	0.309	Enamel	38	368	55.06	0.31	0.89
Mal-8-1CD-09	1731	0.350	Enamel	44	387	55.01	0.31	0.99
Mal-8-1CD-10	1938	0.392	Enamel	46	409	54.89	0.35	0.97
Mal-8-1CD-11	2145	0.434	Enamel	49	422	54.56	0.33	0.95

Mal-8-1CD-12	2352	0.476	Enamel	49	426	55.60	0.33	1.04
Mal-8-1CD-13	2559	0.518	Enamel	49	435	54.03	0.36	1.11
Mal-8-1CD-14	2766	0.560	Enamel	50	434	55.30	0.34	1.06
Mal-8-1CD-15	2973	0.602	Enamel	55	453	55.00	0.37	1.15
Mal-8-1CD-16	3180	0.644	Enamel	59	463	54.89	0.39	1.25
Mal-8-1CD-17	3387	0.686	Enamel	60	465	55.02	0.37	1.21
Mal-8-1CD-18	3594	0.728	Enamel	65	493	55.33	0.37	1.12
Mal-8-1CD-19	3801	0.769	Enamel	72	506	54.72	0.37	1.19
Mal-8-1CD-20	4008	0.811	Enamel	78	522	54.47	0.41	1.32
Mal-8-1CD-21	4215	0.853	Enamel	76	510	52.60	0.43	1.20
Mal-8-1CD-23	4629	0.937	Enamel	86	537	53.44	0.45	1.37
Mal-8-1CD-24	4836	0.979	Enamel	85	538	53.44	0.47	1.41
Mal-8-1CD-25	5043	1.021	Dentin	79	500	54.95	0.81	1.28
Mal-8-1CD-26	5250	1.063	Dentin	83	494	54.81	1.74	1.20
Mal-8-1CD-27	5457	1.105	Dentin	87	481	53.08	2.45	1.44
Mal-8-1CD-28	5664	1.147	Dentin	117	479	54.19	2.50	1.17
Mal-8-1CD-29	5871	1.188	Dentin	132	478	51.99	2.42	1.42
Mal-8-1CD-30	6078	1.230	Dentin	143	498	53.57	2.62	1.47
cervical								
Mal-8-1EF-01	60	0.023	Cement	380	482	54.86	1.23	1.06
Mal-8-1EF-02	180	0.068	Cement	322	454	55.60	1.11	1.10
Mal-8-1EF-03	300	0.114	Enamel	314	520	53.85	0.31	0.73
Mal-8-1EF-04	420	0.159	Enamel	63	323	54.57	0.33	0.86
Mal-8-1EF-05	540	0.205	Enamel	41	319	54.07	0.35	0.99
Mal-8-1EF-06	660	0.250	Enamel	40	315	53.91	0.42	0.82
Mal-8-1EF-07	780	0.295	Enamel	38	327	53.77	0.39	0.81
Mal-8-1EF-08	900	0.341	Enamel	42	344	54.20	0.44	0.98
Mal-8-1EF-09	1020	0.386	Enamel	45	365	54.38	0.39	1.13
Mal-8-1EF-10	1140	0.432	Enamel	52	376	54.62	0.42	1.12
Mal-8-1EF-11	1260	0.477	Enamel	56	387	54.20	0.43	1.13
Mal-8-1EF-12	1380	0.523	Enamel	57	396	54.41	0.41	1.11
Mal-8-1EF-13	1500	0.568	Enamel	61	414	53.82	0.41	1.17
Mal-8-1EF-14	1620	0.614	Enamel	61	419	54.59	0.41	1.17
Mal-8-1EF-15	1740	0.659	Enamel	66	435	54.95	0.42	1.29
Mal-8-1EF-16	1860	0.705	Enamel	69	447	54.85	0.45	1.34
Mal-8-1EF-17	1980	0.750	Enamel	69	457	54.16	0.39	1.13
Mal-8-1EF-18	2100	0.795	Enamel	70	457	54.66	0.44	1.35
Mal-8-1EF-19	2220	0.841	Enamel	77	482	54.72	0.40	1.29
Mal-8-1EF-20	2340	0.886	Enamel	77	478	53.89	0.44	1.43
Mal-8-1EF-21	2460	0.932	Enamel	75	485	55.00	0.48	1.45
Mal-8-1EF-22	2580	0.977	Enamel	81	503	54.24	0.43	1.53
Mal-8-1EF-23	2700	1.023	Dentin	73	419	51.04	2.25	1.37
Mal-8-1EF-24	2820	1.068	Dentin	97	403	52.80	2.46	1.42
Mal-8-1EF-25	2940	1.114	Dentin	119	400	53.57	2.88	1.49
Mal-8-1EF-26	3060	1.159	Dentin	123	379	53.53	2.91	1.38
Mal-8-1EF-27	3180	1.205	Dentin	129	377	51.49	3.02	1.32

Mal-8-1EF-28	3300	1.250	Dentin	152	380	50.90	3.15	1.47
Mal-8-1EF-29	3420	1.295	Dentin	174	390	51.35	2.75	1.44
longitudinal								
Mal-8 L-01	100	0.410	Enamel	78	530	54.30	0.59	1.45
Mal-8 L-02	600	0.410	Enamel	79	528	54.01	0.55	1.55
Mal-8 L-03	1100	0.410	Enamel	82	534	53.75	0.58	1.49
Mal-8 L-04	1600	0.410	Enamel	81	533	54.20	0.56	1.52
Mal-8 L-05	2100	0.410	Enamel	79	524	54.16	0.56	1.51
Mal-8 L-06	2600	0.410	Enamel	84	545	53.99	0.51	1.48
Mal-8 L-07	3100	0.410	Enamel	77	518	53.88	0.53	1.53
Mal-8 L-08	3600	0.410	Enamel	82	528	54.90	0.50	1.37
Mal-8 L-09	4100	0.410	Enamel	74	500	54.40	0.48	1.31
Mal-8 L-10	4600	0.410	Enamel	70	498	54.59	0.51	1.44
Mal-8 L-11	5100	0.410	Enamel	72	498	54.55	0.45	1.30
Mal-8 L-12	5600	0.410	Enamel	71	492	54.53	0.40	1.18
Mal-8 L-13	6100	0.410	Enamel	74	494	54.70	0.42	1.27
Mal-8 L-14	6600	0.410	Enamel	71	497	54.76	0.42	1.27
Mal-8 L-15	7100	0.410	Enamel	73	496	54.79	0.48	1.50
Mal-8 L-16	7600	0.410	Enamel	76	504	54.66	0.50	1.34
Mal-8 L-17	8100	0.410	Enamel	73	487	54.49	0.43	1.34
Mal-8 L-18	8600	0.410	Enamel	77	490	52.88	0.48	1.45
Mal-8 L-19	9100	0.410	Enamel	79	516	54.59	0.53	1.31
Mal-8 L-20	9600	0.410	Enamel	79	503	54.90	0.48	1.40
Mal-8 L-21	10100	0.410	Enamel	81	509	54.54	0.51	1.40
Mal-8 L-22	10600	0.410	Enamel	76	505	54.17	0.47	1.29
Mal-8 L-23	11100	0.410	Enamel	83	516	54.89	0.44	1.36
Mal-8 L-24	11600	0.410	Enamel	84	515	54.77	0.43	1.26
Mal-8 L-25	12100	0.410	Enamel	80	518	54.54	0.45	1.30
Mal-8 L-26	12600	0.410	Enamel	81	517	54.30	0.45	1.24
Mal-8 L-27	13100	0.410	Enamel	79	514	53.58	0.46	1.40
Mal-8 L-28	13600	0.410	Enamel	77	509	54.57	0.52	1.44
Mal-8 L-29	14100	0.410	Enamel	79	509	54.11	0.43	1.34
Mal-8 L-30	14600	0.410	Enamel	80	534	54.74	0.45	1.31
Mal-8 L-31	15100	0.410	Enamel	81	524	54.77	0.43	1.42
Mal-8 L-32	15600	0.410	Enamel	83	538	53.77	0.47	1.35
Mal-8 L-33	16100	0.410	Enamel	82	542	54.37	0.46	1.33
Mal-8 L-34	16600	0.410	Enamel	83	531	54.43	0.44	1.32
Mal-8 L-35	17100	0.410	Enamel	83	532	53.29	0.49	1.32
Mal-8 L-36	17600	0.410	Enamel	82	536	54.44	0.47	1.28
Mal-8 L-37	18100	0.421	Enamel	86	539	54.03	0.49	1.30
Mal-8 L-38	18600	0.433	Enamel	86	543	54.84	0.40	1.36
Mal-8 L-39	19100	0.444	Enamel	85	551	54.82	0.45	1.20
Mal-8 L-40	19600	0.456	Enamel	85	538	54.78	0.46	1.41
Mal-8 L-41	20100	0.467	Enamel	87	545	54.07	0.43	1.37
Mal-8 L-42	20600	0.479	Enamel	89	553	54.78	0.46	1.41

Mal-8 L-43	21100	0.491	Enamel	89	552	54.07	0.43	1.37
Line 1 Mal8,1B MN	21000	0.488	Enamel	147	733	53.74	0.58	1.78
Line 2 Mal8,1B MN	21500	0.500	Enamel	190	945	54.88	0.38	1.41
Line 3 Mal8,1B MN	22000	0.512	Enamel	189	981	54.48	0.44	1.36
Line 4 Mal8,1B MN	22500	0.523	Enamel	179	952	54.60	0.45	1.48
Line 5 Mal8,1B MN	23000	0.535	Enamel	172	915	54.01	0.40	1.32
Line 6 Mal8,1B MN	23501	0.547	Enamel	179	931	54.61	0.40	1.31
Line 7 Mal8,1B MN	24000	0.558	Enamel	180	933	54.80	0.37	1.27
Line 8 Mal8,1B MN	24500	0.570	Enamel	173	918	54.38	0.39	1.32
Line 9 Mal8,1B MN	25000	0.581	Enamel	175	932	54.58	0.40	1.32
Line 10 Mal8,1B MN	25500	0.593	Enamel	180	916	53.81	0.41	1.21
Line 11 Mal8,1B MN	26000	0.605	Enamel	173	912	53.98	0.38	1.16
Line 1 Mal8,1B OP	26500	0.616	Enamel	180	910	54.34	0.44	1.31
Line 2 Mal8,1B OP	27000	0.628	Enamel	188	931	54.53	0.41	1.33
Line 3 Mal8,1B OP	27500	0.640	Enamel	178	897	54.44	0.38	1.21
Line 4 Mal8,1B OP	28000	0.651	Enamel	175	912	53.84	0.42	1.33
Line 5 Mal8,1B OP	28500	0.663	Enamel	168	884	54.32	0.45	1.38
Line 6 Mal8,1B OP	29000	0.674	Enamel	156	870	53.94	0.44	1.32
Line 7 Mal8,1B OP	29500	0.686	Enamel	155	857	55.27	0.41	1.35
Line 8 Mal8,1B OP	30000	0.698	Enamel	165	896	54.55	0.41	1.46
Line 9 Mal8,1B OP	30500	0.709	Enamel	159	905	54.08	0.39	1.29
Line 10 Mal8,1B OP	31000	0.721	Enamel	170	891	53.41	0.36	1.38
Line 1 Mal8,1B QR	31500	0.733	Enamel	190	918	54.07	0.35	1.33
Line 2 Mal8,1B QR	32000	0.744	Enamel	173	909	52.93	0.40	1.33
Line 3 Mal8,1B QR	32500	0.756	Enamel	196	929	52.87	0.43	1.38
Line 4 Mal8,1B QR	33000	0.767	Enamel	210	941	53.68	0.44	1.34
Line 5 Mal8,1B QR	33500	0.779	Enamel	226	951	53.79	0.49	1.51
Line 6 Mal8,1B QR	34000	0.791	Enamel	226	944	53.58	0.39	1.41
Line 7 Mal8,1B QR	34500	0.802	Enamel	237	963	53.62	0.41	1.37
Line 8 Mal8,1B QR	35000	0.814	Enamel	244	1030	54.10	0.36	1.44
Line 9 Mal8,1B QR	35500	0.826	Enamel	206	992	53.80	0.40	1.44
Line 10 Mal8,1B QR	36000	0.837	Enamel	202	955	53.91	0.39	1.46
Line 11 Mal8,1B QR	36500	0.849	Enamel	186	928	54.21	0.42	1.36
Line 12 Mal8,1B QR	37000	0.860	Enamel	188	921	53.79	0.42	1.15
Line 13 Mal8,1B QR	37500	0.872	Enamel	186	904	54.20	0.42	1.43
Line 1 Mal8,1B ST	38000	0.884	Enamel	176	861	54.39	0.44	1.25
Line 2 Mal8,1B ST	38500	0.895	Enamel	190	858	53.18	0.46	1.32
Line 3 Mal8,1B ST	39000	0.907	Enamel	191	865	53.99	0.40	1.34
Line 4 Mal8,1B ST	39500	0.919	Enamel	206	890	54.25	0.39	1.43
Line 5 Mal8,1B ST	40000	0.930	Enamel	175	886	53.71	0.42	1.28
Line 6 Mal8,1B ST	40500	0.942	Enamel	158	855	54.21	0.40	1.25
Line 7 Mal8,1B ST	41000	0.953	Enamel	164	871	54.30	0.39	1.31
Line 8 Mal8,1B ST	41500	0.965	Enamel	160	871	54.33	0.38	1.45
Line 9 Mal8,1B ST	42000	0.977	Enamel	158	875	55.24	0.43	1.49
Line 10 Mal8,1B ST	42500	0.988	Cement	130	712	52.56	1.15	1.14

Sample	Distance $\mu\text{m}$	Distance Norm	Mineral	Ba $\mu\text{g/g}$	Sr $\mu\text{g/g}$	CaO wt.%	MgO wt.%	Na <sub>2</sub> O wt.%
<i>Mal167</i>	<i>Hippopotamus sp.</i>	<i>Fossil Malawi, Chiwondo Bed, Unit 3, 2- Premolar 1.5 Ma</i>		<i>Collection of the Senckenberg Museum, Frankfurt</i>				
central								
Mal167-2CD-01	50	0.018	Enamel	360	672	53.00	0.22	0.66
Mal167-2CD-02	107	0.039	Enamel	1960	1065	54.37	0.23	0.62
Mal167-2CD-03	214	0.078	Enamel	290	714	54.83	0.24	0.72
Mal167-2CD-04	321	0.118	Enamel	338	786	54.78	0.27	0.72
Mal167-2CD-05	428	0.157	Enamel	361	799	54.98	0.30	0.67
Mal167-2CD-06	535	0.196	Enamel	385	806	55.19	0.28	0.71
Mal167-2CD-07	642	0.235	Enamel	380	768	54.91	0.26	0.68
Mal167-2CD-08	749	0.274	Enamel	389	807	54.73	0.25	0.79
Mal167-2CD-09	856	0.314	Enamel	409	841	55.23	0.22	0.78
Mal167-2CD-10	963	0.353	Enamel	460	890	55.23	0.25	0.80
Mal167-2CD-11	1070	0.392	Enamel	492	920	54.92	0.23	0.82
Mal167-2CD-12	1177	0.431	Enamel	503	931	54.80	0.26	0.79
Mal167-2CD-13	1284	0.470	Enamel	516	954	55.28	0.23	0.88
Mal167-2CD-14	1391	0.510	Enamel	510	936	54.74	0.28	0.93
Mal167-2CD-15	1498	0.549	Enamel	551	975	54.87	0.27	0.91
Mal167-2CD-16	1605	0.588	Enamel	575	994	55.17	0.25	1.01
Mal167-2CD-17	1712	0.627	Enamel	595	985	55.54	0.28	0.93
Mal167-2CD-18	1819	0.666	Enamel	577	979	55.00	0.28	1.01
Mal167-2CD-19	1926	0.705	Enamel	641	1030	55.56	0.29	1.06
Mal167-2CD-20	2033	0.745	Enamel	613	1009	55.11	0.30	1.12
Mal167-2CD-21	2140	0.784	Enamel	581	997	55.16	0.30	1.07
Mal167-2CD-22	2247	0.823	Enamel	566	1005	55.47	0.32	1.08
Mal167-2CD-23	2354	0.862	Enamel	530	954	54.96	0.36	1.15
Mal167-2CD-24	2461	0.901	Enamel	533	938	55.16	0.32	1.23
Mal167-2CD-25	2568	0.941	Enamel	527	923	54.80	0.35	1.34
Mal167-2CD-26	2675	0.980	Enamel	1954	868	54.89	0.37	1.47
Mal167-2CD-27	2782	1.019	Dentin	3427	758	58.16	0.13	0.53
Mal167-2CD-28	2889	1.058	Dentin	390	773	57.93	0.17	0.58
Mal167-2CD-29	2996	1.097	Dentin	824	843	57.32	0.12	0.58
Mal167-2CD-30	3103	1.137	Dentin	4380	913	57.50	0.14	0.56
cervical								
Mal167-3EF-01	50	0.021	Enamel	299	589	56.43	0.18	0.57
Mal167-3EF-02	98	0.041	Enamel	317	620	55.53	0.33	0.93
Mal167-3EF-03	196	0.082	Enamel	372	776	54.83	0.27	0.74
Mal167-3EF-04	294	0.123	Enamel	387	801	55.04	0.26	0.67
Mal167-3EF-05	392	0.163	Enamel	425	811	55.19	0.27	0.79
Mal167-3EF-06	490	0.204	Enamel	494	841	54.98	0.28	0.73
Mal167-3EF-07	588	0.245	Enamel	579	873	55.15	0.24	0.84
Mal167-3EF-08	686	0.286	Enamel	605	876	55.06	0.26	0.82

Mal167-3EF-09	784	0.327	Enamel	592	880	54.97	0.27	0.84
Mal167-3EF-10	882	0.368	Enamel	508	902	54.76	0.25	0.90
Mal167-3EF-11	980	0.408	Enamel	509	915	55.16	0.28	0.85
Mal167-3EF-12	1078	0.449	Enamel	663	911	55.15	0.27	0.90
Mal167-3EF-13	1176	0.490	Enamel	1046	923	55.00	0.29	0.89
Mal167-3EF-14	1274	0.531	Enamel	1308	935	55.00	0.27	0.92
Mal167-3EF-15	1372	0.572	Enamel	911	941	54.97	0.28	0.87
Mal167-3EF-16	1470	0.613	Enamel	570	976	55.26	0.28	1.00
Mal167-3EF-17	1568	0.653	Enamel	559	988	54.90	0.27	0.95
Mal167-3EF-18	1666	0.694	Enamel	587	1003	55.26	0.28	1.02
Mal167-3EF-19	1764	0.735	Enamel	594	1008	55.06	0.28	1.09
Mal167-3EF-20	1862	0.776	Enamel	650	1042	54.93	0.31	1.14
Mal167-3EF-21	1960	0.817	Enamel	703	1088	55.06	0.33	1.12
Mal167-3EF-22	2058	0.858	Enamel	718	1094	55.35	0.35	1.16
Mal167-3EF-23	2156	0.898	Enamel	747	1109	55.26	0.33	1.20
Mal167-3EF-24	2254	0.939	Enamel	756	1112	55.16	0.31	1.25
Mal167-3EF-25	2352	0.980	Enamel	671	1034	54.95	0.30	1.41
Mal167-3EF-26	2450	1.021	Dentin	390	915	57.93	0.18	0.63
Mal167-3EF-27	2548	1.062	Dentin	415	947	58.36	0.14	0.63
Mal167-3EF-28	2646	1.103	Dentin	444	1012	58.38	0.15	0.66
Mal167-3EF-29	2744	1.143	Dentin	437	1003	58.00	0.13	0.62
Mal167-3EF-30	2842	1.184	Dentin	410	961	55.12	0.16	0.61
apical								
Mal167-1AB-01	50	0.016	Enamel	478	1175	54.67	0.25	0.59
Mal167-1AB-02	122	0.039	Enamel	294	680	54.68	0.29	0.67
Mal167-1AB-03	244	0.078	Enamel	282	655	54.59	0.31	0.68
Mal167-1AB-04	366	0.118	Enamel	306	655	54.68	0.28	0.71
Mal167-1AB-05	488	0.157	Enamel	341	704	54.49	0.27	0.86
Mal167-1AB-06	610	0.196	Enamel	386	699	55.06	0.23	0.80
Mal167-1AB-07	732	0.235	Enamel	310	705	54.80	0.26	0.83
Mal167-1AB-08	854	0.275	Enamel	352	747	54.77	0.27	0.84
Mal167-1AB-09	976	0.314	Enamel	432	854	54.25	0.26	0.83
Mal167-1AB-10	1098	0.353	Enamel	478	877	54.69	0.27	0.79
Mal167-1AB-11	1220	0.392	Enamel	507	894	54.86	0.27	0.86
Mal167-1AB-12	1342	0.432	Enamel	521	894	54.98	0.26	0.90
Mal167-1AB-13	1464	0.471	Enamel	538	907	54.55	0.26	0.92
Mal167-1AB-14	1586	0.510	Enamel	545	915	54.75	0.31	0.93
Mal167-1AB-15	1708	0.549	Enamel	538	930	54.94	0.30	0.91
Mal167-1AB-16	1830	0.588	Enamel	550	861	54.59	0.29	0.95
Mal167-1AB-17	1952	0.628	Enamel	475	885	54.89	0.31	1.01
Mal167-1AB-18	2074	0.667	Enamel	496	903	54.66	0.30	1.07
Mal167-1AB-19	2196	0.706	Enamel	614	956	54.64	0.29	1.08
Mal167-1AB-20	2318	0.745	Enamel	558	1042	54.73	0.33	1.06
Mal167-1AB-21	2440	0.785	Enamel	971	1083	54.94	0.32	1.07
Mal167-1AB-22	2562	0.824	Enamel	676	1101	54.87	0.33	1.11

Mal167-1AB-23	2684	0.863	Enamel	624	1125	54.58	0.34	1.14
Mal167-1AB-24	2806	0.902	Enamel	618	1150	54.83	0.34	1.29
Mal167-1AB-25	2928	0.941	Enamel	636	1132	54.99	0.37	1.23
Mal167-1AB-26	3050	0.981	Enamel	656	1148	54.99	0.35	1.32
Mal167-1AB-27	3172	1.020	Dentin	2843	1049	57.29	0.15	0.56
Mal167-1AB-28	3294	1.059	Dentin	3641	985	56.93	0.15	0.55
Mal167-1AB-29	3416	1.098	Dentin	1702	1001	57.42	0.13	0.61
Mal167-1AB-30	3538	1.138	Dentin	1904	1035	57.94	0.11	0.52

Sample	Distance $\mu\text{m}$	Distance Norm	Mineral	Ba $\mu\text{g/g}$	Sr $\mu\text{g/g}$	CaO wt.%	MgO wt.%	Na <sub>2</sub> O wt.%
<b>Alb10</b>	<i>Hippopotamus amphibius</i>			Premolar	Lake Albert, Sebugoro Beach			
core apical								
Alb10-1 AB-01	30	0.024	Enamel	163	401	54.25	0.40	0.79
Alb10-1 AB-03	110	0.087	Enamel	150	411	54.52	0.39	0.79
Alb10-1 AB-05	220	0.174	Enamel	147	422	54.83	0.40	0.81
Alb10-1 AB-07	330	0.261	Enamel	161	450	54.86	0.41	0.77
Alb10-1 AB-09	440	0.348	Enamel	162	448	54.44	0.39	0.86
Alb10-1 AB-11	550	0.435	Enamel	164	461	54.92	0.44	0.90
Alb10-1 AB-13	660	0.522	Enamel	180	466	54.55	0.44	0.92
Alb10-1 AB-15	770	0.609	Enamel	179	453	54.65	0.46	1.04
Alb10-1 AB-17	880	0.696	Enamel	208	479	54.61	0.43	1.09
Alb10-1 AB-19	990	0.783	Enamel	237	503	54.80	0.44	1.09
Alb10-1 AB-21	1100	0.870	Enamel	252	519	54.64	0.41	1.22
Alb10-1 AB-23	1210	0.957	Enamel	295	551	54.21	0.52	1.32
Alb10-1 AB-25	1320	1.043	Dentin	351	452	55.74	3.04	0.93
Alb10-1 AB-27	1430	1.130	Dentin	349	436	54.76	3.43	1.14
Alb10-1 AB-29	1540	1.217	Dentin	323	412	54.16	3.73	1.10
core cervical								
Alb10-2 AB-01	30	0.025	Enamel	230	415	54.52	0.34	0.74
Alb10-2 AB-03	104	0.087	Enamel	167	411	54.52	0.36	0.73
Alb10-2 AB-05	208	0.173	Enamel	153	416	54.70	0.36	0.75
Alb10-2 AB-07	312	0.260	Enamel	165	438	54.36	0.36	0.81
Alb10-2 AB-09	416	0.347	Enamel	173	454	54.51	0.35	0.80
Alb10-2 AB-11	520	0.433	Enamel	169	456	54.46	0.42	0.91
Alb10-2 AB-13	624	0.520	Enamel	176	466	54.47	0.43	0.91
Alb10-2 AB-15	728	0.607	Enamel	191	464	54.31	0.51	1.10
Alb10-2 AB-17	832	0.693	Enamel	200	480	54.46	0.48	1.07
Alb10-2 AB-19	936	0.780	Enamel	230	501	53.90	0.48	1.17
Alb10-2 AB-21	1040	0.867	Enamel	260	540	54.44	0.47	1.18
Alb10-2 AB-23	1144	0.953	Enamel	355	519	53.98	0.57	1.40
Alb10-2 AB-25	1248	1.040	Dentin	362	441	56.05	3.31	0.92
Alb10-2 AB-27	1352	1.127	Dentin	297	374	51.61	3.43	1.15
Alb10-2 AB-29	1456	1.213	Dentin	323	420	52.40	3.56	1.04
apical								
Alb10 1AB-01	50	0.030	Enamel	141	360	52.69	0.37	0.82
Alb10 1AB-03	178	0.108	Enamel	132	369	53.43	0.38	0.84
Alb10 1AB-05	306	0.185	Enamel	141	393	54.80	0.35	0.88
Alb10 1AB-07	434	0.263	Enamel	139	392	53.83	0.41	0.88
Alb10 1AB-09	562	0.341	Enamel	145	398	54.41	0.43	0.90
Alb10 1AB-11	690	0.418	Enamel	162	407	54.16	0.39	0.91
Alb10 1AB-13	818	0.496	Enamel	181	428	54.33	0.44	0.92
Alb10 1AB-15	946	0.573	Enamel	198	441	54.09	0.46	0.96
Alb10 1AB-19	1202	0.728	Enamel	278	505	53.91	0.53	0.98
Alb10 1AB-21	1330	0.806	Enamel	291	508	53.32	0.53	1.16
Alb10 1AB-23	1458	0.884	Enamel	339	508	53.25	0.63	1.32
Alb10 1AB-25	1586	0.961	Enamel	428	514	52.47	0.60	1.45
Alb10 1AB-27	1714	1.039	Dentin	333	404	52.47	2.79	0.98
Alb10 1AB-29	1842	1.116	Dentin	297	371	51.22	3.01	1.16



## cervical

Alb10 5AB-01	50	0.045	Enamel	121	325	52.78	0.25	0.65
Alb10 5AB-03	150	0.136	Enamel	129	352	52.87	0.32	0.74
Alb10 5AB-05	250	0.227	Enamel	140	370	52.69	0.31	0.90
Alb10 5AB-07	350	0.318	Enamel	156	404	53.53	0.36	0.81
Alb10 5AB-09	450	0.409	Enamel	169	413	52.80	0.36	0.93
Alb10 5AB-11	550	0.500	Enamel	174	425	53.14	0.37	1.00
Alb10 5AB-13	650	0.591	Enamel	186	443	52.95	0.41	1.11
Alb10 5AB-15	750	0.682	Enamel	192	445	52.34	0.41	1.23
Alb10 5AB-17	850	0.773	Enamel	233	479	52.46	0.41	1.22
Alb10 5AB-19	950	0.864	Enamel	255	506	52.44	0.48	1.39
Alb10 5AB-21	1050	0.955	Enamel	247	523	52.31	0.50	1.43
Alb10 5AB-23	1150	1.045	Dentin	270	393	51.80	3.31	1.14
Alb10 5AB-25	1250	1.136	Dentin	323	382	49.87	3.63	1.19
Alb10 5AB-27	1350	1.227	Dentin	331	362	48.15	3.77	1.16
Alb10 5AB-29	1450	1.318	Dentin	318	371	49.61	3.82	1.11

## longitudinal

Alb10 L1-01	100	0.012	Cement	555	447	56.39	1.48	0.72
Alb10 L1-02	400	0.048	Cement	563	449	56.68	1.37	0.81
Alb10 L1-03	700	0.084	Cement	626	450	56.18	1.58	0.88
Alb10 L1-04	1000	0.120	Enamel	227	453	53.21	0.61	1.43
Alb10 L1-05	1300	0.157	Enamel	225	473	53.53	0.45	1.45
Alb10 L1-06	1600	0.193	Enamel	226	481	52.61	0.44	1.27
Alb10 L1-07	1900	0.229	Enamel	253	501	53.62	0.43	1.32
Alb10 L1-08	2200	0.265	Enamel	268	508	53.27	0.48	1.29
Alb10 L1-09	2500	0.301	Enamel	246	497	52.84	0.63	1.36
Alb10 L1-10	2800	0.337	Enamel	241	501	52.61	0.43	1.30
Alb10 L1-11	3100	0.373	Enamel	224	482	52.87	0.42	1.38
Alb10 L1-12	3400	0.410	Enamel	208	478	53.75	0.43	1.39
Alb10 L1-13	3700	0.446	Enamel	206	472	52.60	0.51	1.38
Alb10 L1-14	4000	0.482	Enamel	207	479	53.27	0.43	1.25
Alb10 L1-15	4300	0.518	Enamel	214	490	53.64	0.46	1.34
Alb10 L1-16	4600	0.554	Enamel	200	466	52.51	0.56	1.44
Alb10 L1-17	4900	0.590	Enamel	197	466	53.48	0.56	1.44
Alb10 L1-18	5200	0.627	Enamel	203	471	53.66	0.50	1.33
Alb10 L1-19	5500	0.663	Enamel	215	478	53.25	0.45	1.32
Alb10 L1-20	5800	0.699	Enamel	221	473	53.36	0.43	1.32
Alb10 L1-21	6100	0.735	Enamel	220	480	54.04	0.45	1.31
Alb10 L1-22	6400	0.771	Enamel	218	472	53.47	0.48	1.38
Alb10 L1-23	6700	0.807	Enamel	221	474	53.69	0.45	1.34
Alb10 L1-24	7000	0.843	Enamel	214	457	53.49	0.58	1.25
Alb10 L1-25	7300	0.880	Enamel	205	453	53.85	0.42	1.29
Alb10 L1-26	7600	0.916	Enamel	210	466	54.15	0.52	1.21
Alb10 L1-27	7900	0.952	Enamel	208	453	53.48	0.44	1.18

Sample	Distance µm	Distance Norm	Mineral	Ba µg/g	Sr µg/g	CaO wt.%	MgO wt.%	Na <sub>2</sub> O wt.%
<b>Cat# 019-06</b>	<i>Hippopotamus sp</i>	Lake Albert, Nkondo Fm.	Molar fragment	Surface Find; E30.882052; N1.406682895				
cervical								
1906-2AB-01	50	0.024	Enamel	727	589	54.32	0.12	0.53
1906-2AB-02	137	0.065	Enamel	695	331	55.13	0.17	0.72
1906-2AB-03	274	0.129	Enamel	495	260	55.55	0.17	0.74
1906-2AB-04	411	0.194	Enamel	402	257	55.44	0.20	0.90
1906-2AB-05	548	0.258	Enamel	444	283	55.50	0.17	0.76
1906-2AB-06	685	0.323	Enamel	465	310	55.41	0.22	0.71
1906-2AB-07	822	0.388	Enamel	501	318	54.49	0.24	0.85
1906-2AB-08	959	0.452	Enamel	507	323	55.12	0.23	0.98
1906-2AB-09	1096	0.517	Enamel	542	332	54.95	0.17	0.97
1906-2AB-10	1233	0.582	Enamel	561	343	55.41	0.21	0.99
1906-2AB-11	1370	0.646	Enamel	593	354	54.95	0.22	1.08
1906-2AB-12	1507	0.711	Enamel	642	373	54.97	0.23	1.09
1906-2AB-13	1644	0.775	Enamel	589	371	55.13	0.22	1.09
1906-2AB-14	1781	0.840	Enamel	577	355	55.02	0.24	1.21
1906-2AB-15	1918	0.905	Enamel	580	345	55.27	0.28	1.14
1906-2AB-16	2055	0.969	Enamel	577	347	54.65	0.31	1.24
1906-2AB-17	2192	1.034	Dentin	1046	1618	54.49	0.20	0.40
1906-2AB-18	2329	1.099	Dentin	1113	1831	54.12	0.23	0.47
1906-2AB-19	2466	1.163	Dentin	1109	1809	54.56	0.25	0.36
1906-2AB-20	2603	1.228	Dentin	1111	1832	54.31	0.15	0.38
apical								
1906-1AB-02	2620	0.936	Enamel	661	370	56.10	0.10	0.73
1906-1AB-03	2489	0.889	Enamel	551	298	55.21	0.16	0.76
1906-1AB-04	2358	0.842	Enamel	449	277	56.03	0.15	0.80
1906-1AB-05	2227	0.795	Enamel	449	285	55.29	0.22	0.81
1906-1AB-06	2096	0.749	Enamel	426	292	55.79	0.25	0.84
1906-1AB-07	1965	0.702	Enamel	452	296	55.36	0.21	0.84
1906-1AB-08	1834	0.655	Enamel	470	300	55.64	0.18	0.85
1906-1AB-09	1703	0.608	Enamel	520	312	55.93	0.20	0.92
1906-1AB-10	1572	0.561	Enamel	541	318	56.04	0.18	0.93
1906-1AB-11	1441	0.515	Enamel	526	332	55.94	0.16	0.95
1906-1AB-12	1310	0.468	Riss	439	308	56.05	0.15	1.09
1906-1AB-13	1179	0.421	Riss	1672	406	55.37	0.17	0.90
1906-1AB-14	1048	0.374	Enamel	549	382	55.82	0.16	0.93
1906-1AB-15	917	0.328	Enamel	575	348	55.09	0.14	0.84
1906-1AB-16	786	0.281	Enamel	581	339	56.11	0.19	0.95
1906-1AB-17	655	0.234	Enamel	530	301	55.80	0.15	0.89
1906-1AB-18	524	0.187	Enamel	481	287	56.20	0.19	0.81
1906-1AB-19	393	0.140	Enamel	485	299	56.29	0.16	0.78
1906-1AB-20	262	0.094	Enamel	495	314	55.31	0.17	0.86

1906-1AB-21	131	0.047	Enamel	509	345	55.40	0.16	0.91
1906-1AB-22	50	0.011	Riss	301952	8393	55.29	0.17	0.76
1906-1AB-23	131	0.069	Enamel	1091	337	55.72	0.22	0.71
1906-1AB-24	262	0.138	Enamel	527	294	54.94	0.19	0.77
1906-1AB-25	393	0.207	Enamel	511	299	55.22	0.17	0.76
1906-1AB-26	524	0.276	Enamel	558	306	55.86	0.15	0.88
1906-1AB-27	655	0.345	Enamel	612	327	55.17	0.18	0.96
1906-1AB-28	786	0.414	Enamel	663	339	55.51	0.19	0.94
1906-1AB-29	917	0.483	Enamel	666	342	55.64	0.15	0.95
1906-1AB-30	1048	0.552	Enamel	723	358	55.20	0.20	1.08

**Cat# 053-06** *Hippopotamus sp* Lake Albert, Kaiso Village Fm. Molar fragment Surface Find; E30.96475396; N1.52576142

apical

5306-1AB-01	50	0.021	Cement	901	1337	48.90	0.26	0.47
5306-1AB-02	107	0.045	Cement	283	401	51.31	0.24	0.44
5306-1AB-03	214	0.089	Cement	222	349	50.16	0.25	0.45
5306-1AB-04	321	0.134	Cement	195	344	50.00	0.26	0.51
5306-1AB-05	428	0.178	Cement	206	361	51.48	0.26	0.44
5306-1AB-06	535	0.223	Enamel	216	382	53.88	0.35	0.84
5306-1AB-07	642	0.268	Enamel	220	397	53.96	0.34	0.96
5306-1AB-08	749	0.312	Enamel	196	388	53.43	0.23	0.94
5306-1AB-09	856	0.357	Enamel	195	398	53.93	0.19	0.97
5306-1AB-10	963	0.401	Enamel	191	377	54.13	0.17	0.83
5306-1AB-11	1070	0.446	Enamel	186	395	54.04	0.20	0.95
5306-1AB-12	1177	0.490	Enamel	195	432	54.95	0.20	0.80
5306-1AB-13	1284	0.535	Enamel	199	428	55.21	0.19	0.86
5306-1AB-14	1391	0.580	Enamel	204	431	54.93	0.22	0.94
5306-1AB-15	1498	0.624	Enamel	251	444	55.02	0.28	0.99
5306-1AB-16	1605	0.669	Enamel	222	481	55.41	0.31	1.11
5306-1AB-17	1712	0.713	Enamel	209	479	55.51	0.28	0.98
5306-1AB-18	1819	0.758	Enamel	238	495	55.42	0.28	1.07
5306-1AB-19	1926	0.803	Enamel	213	490	56.08	0.28	1.14
5306-1AB-20	2033	0.847	Enamel	247	507	55.05	0.34	1.14
5306-1AB-21	2140	0.892	Enamel	247	515	55.76	0.35	1.25
5306-1AB-22	2247	0.936	Enamel	266	537	55.58	0.40	1.32
5306-1AB-23	2354	0.981	Enamel	274	555	55.76	0.34	1.32
5306-1AB-24	2461	1.025	dentin	254	916	47.59	0.30	0.62
5306-1AB-25	2568	1.070	dentin	247	831	44.14	0.28	0.55
5306-1AB-26	2675	1.115	dentin	335	903	46.36	0.26	0.55
5306-1AB-27	2782	1.159	dentin	431	942	47.85	0.24	0.59
5306-1AB-28	2889	1.204	dentin	756	993	48.89	0.27	0.56
5306-1AB-29	2996	1.248	dentin	867	995	48.60	0.22	0.52
5306-1AB-30	3103	1.293	dentin	1078	1008	48.55	0.23	0.53

cervical

5306-2a AB-01	50	0.020	Enamel	480	925
5306-2a AB-02	100	0.041	Enamel	397	734
5306-2a AB-03	200	0.082	Enamel	326	583
5306-2a AB-04	300	0.122	Enamel	279	546
5306-2a AB-05	400	0.163	Enamel	270	502
5306-2a AB-06	500	0.204	Enamel	269	456
5306-2a AB-07	600	0.245	Enamel	279	459
5306-2a AB-08	700	0.286	Enamel	277	451
5306-2a AB-09	800	0.327	Enamel	258	448
5306-2a AB-10	900	0.367	Enamel	288	470
5306-2a AB-11	1000	0.408	Enamel	274	453
5306-2a AB-12	1100	0.449	Enamel	278	461
5306-2a AB-13	1200	0.490	Enamel	289	450
5306-2a AB-14	1300	0.531	Enamel	258	466
5306-2a AB-15	1400	0.571	Enamel	264	481
5306-2a AB-16	1500	0.612	Enamel	252	489
5306-2a AB-17	1600	0.653	Enamel	226	483
5306-2a AB-18	1700	0.694	Enamel	218	494
5306-2a AB-19	1800	0.735	Enamel	225	497
5306-2a AB-20	1900	0.776	Enamel	218	505
5306-2a AB-21	2000	0.816	Enamel	232	494
5306-2a AB-22	2100	0.857	Enamel	249	529
5306-2a AB-23	2200	0.898	Enamel	270	569
5306-2a AB-24	2300	0.939	Enamel	224	530
5306-2a AB-25	2400	0.980	Enamel	252	559
5306-2a AB-26	2500	1.020	Dentin	926	1618
5306-2a AB-27	2600	1.061	Dentin	879	1517
5306-2a AB-28	2700	1.102	Dentin		

longitudinal

5306-L1(3)-01	100	0.008	Enamel	458	1089	44.69	0.24	0.67
5306-L1(3)-02	400	0.032	Enamel	343	561	54.26	0.26	0.93
5306-L1(3)-03	700	0.056	Enamel	304	537	53.43	0.28	1.27
5306-L1(3)-04	1000	0.700	Enamel	277	530	53.39	0.34	1.28
5306-L1(3)-05	1300	0.700	Enamel	268	519	53.81	0.34	1.23
5306-L1(3)-06	1600	0.700	Enamel	266	518	54.16	0.33	1.23
5306-L1(3)-07	1900	0.700	Enamel	259	510	53.84	0.35	1.16
5306-L1(3)-08	2200	0.700	Enamel	247	536	53.87	0.34	1.21
5306-L1(3)-09	2500	0.700	Enamel	232	579	53.51	0.31	1.22
5306-L1(3)-10	2800	0.700	Enamel	249	586	53.39	0.31	1.14
5306-L1(3)-11	3100	0.700	Enamel	210	566	53.15	0.29	1.15
5306-L1(3)-12	3400	0.700	Enamel	198	561	53.60	0.32	1.23
5306-L1(3)-13	3700	0.700	Enamel	212	565	53.85	0.29	1.08
5306-L1(3)-14	4000	0.700	Enamel	213	556	53.54	0.27	1.21
5306-L1(3)-15	4300	0.700	Enamel	220	530	53.83	0.33	1.36

5306-L1(3)-16	4600	0.700	Enamel	224	500	53.78	0.33	1.18
5306-L1(3)-17	4900	0.700	Enamel	260	523	53.42	0.38	1.32
5306-L1(3)-18	5200	0.700	Enamel	247	485	54.15	0.39	1.11
5306-L1(3)-19	5500	0.700	Enamel	245	498	53.82	0.42	1.25
5306-L1(3)-20	5800	0.700	Enamel	239	481	53.99	0.39	1.17
5306-L1(3)-21	6100	0.700	Enamel	266	480	53.80	0.41	1.31
5306-L1(3)-22	6400	0.700	Enamel	238	463	53.83	0.40	1.30
5306-L1(3)-23	6700	0.700	Enamel	244	481	53.86	0.38	1.26
5306-L1(3)-24	7000	0.700	Enamel	229	564	53.73	0.31	1.26
5306-L1(3)-25	7300	0.700	Enamel	218	551	53.66	0.31	1.20
5306-L1(3)-26	7600	0.700	Enamel	224	543	53.41	0.33	1.24
5306-L1(3)-27	7900	0.700	Enamel	234	560	53.93	0.27	1.33
5306-L1(3)-28	8200	0.700	Enamel	224	526	53.39	0.32	1.25
5306-L1(3)-29	8500	0.700	Enamel	241	540	53.71	0.30	1.27
5306-L1(3)-30	8800	0.700	Enamel	240	541	53.82	0.31	1.25
5306-L1(3)-31	9100	0.728	Enamel	246	523	53.82	0.35	1.25
5306-L1(3)-32	9400	0.752	Enamel	250	500	53.64	0.36	1.23
5306-L1(3)-33	9700	0.776	Enamel	244	477	53.36	0.36	1.23
5306-L1(3)-34	10000	0.800	Enamel	226	475	53.87	0.37	1.17
5306-L1(3)-35	10300	0.824	Enamel	243	479	53.47	0.39	1.19
5306-L1(3)-36	10600	0.848	Enamel	236	468	53.27	0.39	1.21
5306-L1(3)-37	10900	0.872	Enamel	235	470	52.87	0.38	1.24
5306-L1(3)-38	11200	0.896	Enamel	231	499	53.41	0.39	1.33
5306-L1(3)-39	11500	0.920	Enamel	260	521	53.89	0.37	1.31
5306-L1(3)-40	11800	0.944	Enamel	251	487	53.62	0.42	1.26
5306-L1(3)-41	12100	0.968	Enamel	249	479	53.07	0.35	1.24

**Cat# 017-06**

*Hippopotamus sp*

Lake Albert,  
Warwire Fm.

Molar  
fragment

Surface Find; E30.8829189;  
N1.41738233

apical

1706-1AB-01	50	0.020	Enamel	1019	734	52.49	0.16	0.44
1706-1AB-02	184	0.074	Enamel	978	823	50.64	0.14	0.60
1706-1AB-03	368	0.148	Enamel	1116	967	53.92	0.11	0.67
1706-1AB-04	552	0.223	Enamel	1007	962	54.55	0.18	0.77
1706-1AB-05	736	0.297	Enamel	979	919	53.87	0.22	0.79
1706-1AB-06	920	0.371	Enamel	818	742	54.45	0.27	0.88
1706-1AB-07	1104	0.445	Enamel	854	761	54.77	0.25	0.74
1706-1AB-08	1288	0.519	Enamel	833	770	54.41	0.19	0.85
1706-1AB-09	1472	0.594	Enamel	1145	841	54.80	0.22	0.88
1706-1AB-10	1656	0.668	Enamel	1369	872	54.47	0.21	0.95
1706-1AB-11	1840	0.742	Enamel	1671	943	55.23	0.24	0.95
1706-1AB-12	2024	0.816	Enamel	1898	968	54.64	0.24	1.03
1706-1AB-13	2208	0.890	Enamel	1780	999	54.70	0.23	1.19
1706-1AB-14	2392	0.965	Enamel	1728	1057	56.00	0.20	1.22
1706-1AB-15	2576	1.039	Dentin	1522	1767	55.83	0.13	0.47
1706-1AB-16	2760	1.113	Dentin	1742	1921	55.83	0.13	0.47

1706-1AB-17	2944	1.187	Dentin	2131	1855	53.66	0.18	0.44
1706-1AB-18	3128	1.261	Dentin	3046	1935	55.56	0.12	0.54
1706-1AB-19	3312	1.335	Dentin	2402	1910	55.73	0.16	0.45
1706-1AB-20	3496	1.410	Dentin	2505	1923	55.49	0.17	0.47
cervical								
1706-2AB-01	50	0.020	Enamel	1079	970	53.87	0.11	0.58
1706-2AB-02	181	0.074	Enamel	776	889	53.41	0.17	0.60
1706-2AB-03	362	0.148	Enamel	728	837	53.74	0.19	0.65
1706-2AB-04	543	0.223	Enamel	708	758	54.31	0.24	0.68
1706-2AB-05	724	0.297	Enamel	760	783	54.74	0.20	0.81
1706-2AB-06	905	0.371	Enamel	791	785	54.62	0.20	0.77
1706-2AB-07	1086	0.445	Enamel	835	781	54.22	0.19	0.85
1706-2AB-08	1267	0.519	Enamel	1044	865	55.10	0.21	0.90
1706-2AB-09	1448	0.593	Enamel	885	832	54.63	0.25	0.86
1706-2AB-10	1629	0.668	Enamel	968	882	55.10	0.24	1.03
1706-2AB-11	1810	0.742	Enamel	985	888	55.01	0.22	0.96
1706-2AB-12	1991	0.816	Enamel	1080	910	54.81	0.24	1.01
1706-2AB-13	2172	0.890	Enamel	1172	933	54.75	0.29	1.12
1706-2AB-14	2353	0.964	Enamel	1427	1010	55.05	0.25	1.13
1706-2AB-15	2534	1.039	Dentin	1536	1829	51.28	0.15	0.57
1706-2AB-16	2715	1.113	Dentin	1414	1690	51.28	0.15	0.57
1706-2AB-17	2896	1.187	Dentin	1704	1698	51.41	0.19	0.45
1706-2AB-18	3077	1.261	Dentin	1558	1730	50.74	0.11	0.40
1706-2AB-19	3258	1.335	Dentin	1582	1872	55.48	0.15	0.45
1706-2AB-20	3439	1.409	Dentin	1594	1861	55.95	0.19	0.57

<b>Cat# 021-06</b>	<i>Hippopotamus sp</i>	Lake Albert, Nkondo Fm.	Molar fragment	Surface Find; E30.8988124; N1.41939191				
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apical

2106-2AB-01	40	0.032	Enamel	523	454	54.60	0.22	0.77
2106-2AB-02	87	0.069	Enamel	346	411	54.94	0.20	0.73
2106-2AB-03	174	0.138	Enamel	560	373	54.76	0.15	0.69
2106-2AB-04	261	0.207	Enamel	618	370	54.82	0.18	0.81
2106-2AB-05	348	0.276	Enamel	589	361	55.07	0.17	0.78
2106-2AB-06	435	0.345	Enamel	567	365	54.48	0.21	0.82
2106-2AB-07	522	0.414	Enamel	586	369	55.12	0.17	0.82
2106-2AB-08	609	0.483	Enamel	597	376	54.80	0.21	0.80
2106-2AB-09	696	0.552	Enamel	594	352	55.44	0.17	0.83
2106-2AB-10	783	0.621	Enamel	657	393	54.77	0.19	0.95
2106-2AB-11	870	0.690	Enamel			54.58	0.19	0.96
2106-2AB-12	957	0.760	Enamel	793	427	55.12	0.22	1.10
2106-2AB-13	1044	0.829	Enamel	816	426	55.24	0.25	1.09
2106-2AB-14	1131	0.898	Enamel	872	444	54.92	0.21	1.07
2106-2AB-15	1218	0.967	Enamel	935	459	54.44	0.24	1.15
2106-2AB-16	1305	1.036	Dentin	1784	950	54.38	0.29	1.20
2106-2AB-17	1392	1.105	Dentin	2442	1205	53.13	0.16	0.53

2106-2AB-18	1479	1.174	Dentin	2626	1192	53.30	0.10	0.49
2106-2AB-19	1566	1.243	Dentin	2688	1201	53.22	0.12	0.57
2106-2AB-20	1653	1.312	Dentin	3213	1163	53.17	0.09	0.57
cervical								
2106-3AB-01	45	0.031	Enamel	1048	464	54.54	0.14	0.80
2106-3AB-02	94	0.065	Enamel	786	382	54.65	0.11	0.76
2106-3AB-03	188	0.129	Enamel	787	391	54.95	0.17	0.77
2106-3AB-04	282	0.194	Enamel	877	429	55.20	0.16	0.78
2106-3AB-05	376	0.258	Enamel	874	439	55.12	0.16	0.88
2106-3AB-06	470	0.323	Enamel	903	448	55.27	0.20	0.90
2106-3AB-07	564	0.388	Enamel	921	454	54.88	0.20	0.89
2106-3AB-08	658	0.452	Enamel	990	473	54.77	0.19	0.92
2106-3AB-09	752	0.517	Enamel	1037	478	54.39	0.22	0.92
2106-3AB-10	846	0.581	Enamel	1111	500	54.74	0.20	0.94
2106-3AB-11	940	0.646	Enamel	1195	517	54.80	0.23	0.94
2106-3AB-12	1034	0.711	Enamel	1270	531	55.11	0.19	1.01
2106-3AB-13	1128	0.775	Enamel	1317	574	55.07	0.20	1.03
2106-3AB-14	1222	0.840	Enamel	1356	617	55.01	0.23	1.14
2106-3AB-15	1316	0.904	Enamel	1320	589	54.91	0.25	1.17
2106-3AB-16	1410	0.969	Enamel	1484	714	54.42	0.28	1.14
2106-3AB-17	1504	1.034	Dentin	2374	1259	54.67	0.26	1.23
2106-3AB-18	1598	1.098	Dentin	2513	1246	53.13	0.15	0.61
2106-3AB-19	1692	1.163	Dentin	2463	1240	53.30	0.13	0.55
2106-3AB-20	1786	1.227	Dentin	2415	1224	53.43	0.17	0.46

<b>Cat# 050-06</b>	<i>Hippopotamus sp</i>	Lake Albert, Nkondo Fm.	tooth fragment	Surface Find; E30.90277269; N1.42103198				
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cervical								
5006-1AB-01	50	0.025	Enamel	1390	730	54.60	0.22	0.77
5006-1AB-02	131	0.065	Enamel	1296	685	54.94	0.20	0.73
5006-1AB-03	262	0.129	Enamel	1632	749	54.76	0.15	0.69
5006-1AB-04	393	0.194	Enamel	1639	776	54.82	0.18	0.81
5006-1AB-05	524	0.258	Enamel	1738	819	55.07	0.17	0.78
5006-1AB-06	655	0.323	Enamel	1802	839	54.48	0.21	0.82
5006-1AB-07	786	0.387	Enamel	1864	870	55.12	0.17	0.82
5006-1AB-08	917	0.452	Enamel	1875	869	54.80	0.21	0.80
5006-1AB-09	1048	0.516	Enamel	1961	912	55.44	0.17	0.83
5006-1AB-10	1179	0.581	Enamel	1972	923	54.77	0.19	0.95
5006-1AB-11	1310	0.645	Enamel	2019	956	54.58	0.19	0.96
5006-1AB-12	1441	0.710	Enamel	1963	967	55.12	0.22	1.10
5006-1AB-13	1572	0.774	Enamel	2025	992	55.24	0.25	1.09
5006-1AB-14	1703	0.839	Enamel	2152	1043	54.92	0.21	1.07
5006-1AB-15	1834	0.903	Enamel	2129	1026	54.44	0.24	1.15
5006-1AB-16	1965	0.968	Enamel		1724	54.38	0.29	1.20
5006-1AB-17	2096	1.033	Dentin	1822	2243	53.13	0.16	0.53
5006-1AB-18	2227	1.097	Dentin	1547	2253	53.30	0.10	0.49

5006-1AB-19	2358	1.162	Dentin	1596	2252	53.22	0.12	0.57
5006-1AB-20	2489	1.226	Dentin	1387	2321	53.17	0.09	0.57
apical								
50062AB-01	50	0.023	Enamel	1429	779	54.54	0.14	0.80
50062AB-02	131	0.061	Enamel	1751	794	54.65	0.11	0.76
50062AB-03	262	0.121	Enamel	1714	779	54.95	0.17	0.77
50062AB-04	393	0.182	Enamel	1685	793	55.20	0.16	0.78
50062AB-05	524	0.243	Enamel	1718	822	55.12	0.16	0.88
50062AB-06	655	0.303	Enamel	1771	856	55.27	0.20	0.90
50062AB-07	786	0.364	Enamel	1860	868	54.88	0.20	0.89
50062AB-08	917	0.425	Enamel	1851	881	54.77	0.19	0.92
50062AB-09	1048	0.485	Enamel	1888	917	54.39	0.22	0.92
50062AB-10	1179	0.546	Enamel	1942	941	54.74	0.20	0.94
50062AB-11	1310	0.606	Enamel	1958	935	54.80	0.23	0.94
50062AB-12	1441	0.667	Enamel	1973	974	55.11	0.19	1.01
50062AB-13	1572	0.728	Enamel	1825	954	55.07	0.20	1.03
50062AB-14	1703	0.788	Enamel	1684	940	55.01	0.23	1.14
50062AB-15	1834	0.849	Enamel	1520	949	54.91	0.25	1.17
50062AB-16	1965	0.910	Enamel	1676	963	54.42	0.28	1.14
50062AB-17	2096	0.970	Enamel	1997	1263	54.67	0.26	1.23
50062AB-18	2227	1.031	Dentin	1289	2256	53.13	0.15	0.61
50062AB-19	2358	1.092	Dentin	2450	2196	53.30	0.13	0.55
50062AB-20	2489	1.152	Dentin	1206	2282	53.43	0.17	0.46

<b>Cat# 032-06</b>	<i>Hippopotamus sp</i>	Lake Albert, Nkondo Fm.	Molar fragment	Surface Find; E30.8960314; N1.41516716				
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cervical								
3206-3AB-01	50	0.034	Enamel	411	300	55.05	0.14	0.58
3206-3AB-02	116	0.080	Enamel	430	326	54.80	0.22	0.77
3206-3AB-03	232	0.160	Enamel	484	348	54.15	0.22	0.83
3206-3AB-04	348	0.240	Enamel	532	369	54.55	0.28	0.88
3206-3AB-05	464	0.320	Enamel	615	412	54.54	0.30	0.88
3206-3AB-06	580	0.400	Enamel	699	451	54.78	0.28	0.88
3206-3AB-07	696	0.480	Enamel	771	491	54.07	0.25	0.99
3206-3AB-08	812	0.560	Enamel	806	520	54.47	0.25	0.98
3206-3AB-09	928	0.640	Enamel	835	531	53.99	0.24	1.05
3206-3AB-10	1044	0.720	Enamel	869	556	53.78	0.23	1.06
3206-3AB-11	1160	0.800	Enamel	946	575	54.18	0.26	1.11
3206-3AB-12	1276	0.880	Enamel	1023	581	53.53	0.28	1.16
3206-3AB-13	1392	0.960	Enamel	1249	653	53.96	0.26	1.20
3206-3AB-14	1508	1.040	Dentin	2848	2294	53.80	0.29	1.11
3206-3AB-15	1624	1.120	Dentin	2250	2274	54.40	0.28	1.32
3206-3AB-16	1740	1.200	Dentin	2681	2426	54.15	0.22	1.25
3206-3AB-17	1856	1.280	Dentin	2756	2464	52.51	0.28	0.62
3206-3AB-18	1972	1.360	Dentin	2676	2442	53.20	0.24	0.51
3206-3AB-19	2088	1.440	Dentin	2549	2357	53.25	0.19	0.59



3206-3AB-20	2204	1.520	Dentin	2504	2377	53.46	0.17	0.58
apical								
32062AB-01	50	0.015	Enamel	423	260	53.68	0.18	0.57
32062AB-02	265	0.080	Enamel	617	364	54.59	0.23	0.70
32062AB-03	530	0.160	Enamel	691	406	54.51	0.18	0.65
32062AB-04	795	0.240	Enamel	780	434	54.95	0.22	0.77
32062AB-05	1060	0.320	Enamel	800	447	54.42	0.23	0.85
32062AB-06	1325	0.400	Enamel	872	467	54.20	0.24	0.89
32062AB-07	1590	0.480	Enamel	915	492	55.00	0.23	0.90
32062AB-08	1855	0.560	Enamel	936	521	54.77	0.20	0.97
32062AB-09	2120	0.640	Enamel	952	542	55.02	0.18	1.01
32062AB-10	2385	0.721	Enamel	979	565	54.84	0.21	0.97
32062AB-11	2650	0.801	Enamel	994	567	54.52	0.27	1.06
32062AB-12	2915	0.881	Enamel	1004	556	54.88	0.23	1.12
32062AB-13	3180	0.961	Enamel	990	576	54.32	0.20	1.27
32062AB-14	3445	1.041	dentin	2316	2403	54.45	0.22	1.19
32062AB-15	3710	1.121	dentin	2260	2348	54.16	0.25	1.15
32062AB-16	3975	1.201	dentin	2245	2320	53.23	0.22	1.20
32062AB-17	4240	1.281	dentin	2415	2491	53.06	0.24	0.69
32062AB-18	4505	1.361	dentin	2450	2444	52.60	0.18	0.63
32062AB-19	4770	1.441	dentin	2481	2547	52.95	0.17	0.61
32062AB-20	5035	1.521	dentin	2873	2266	53.27	0.21	0.53

**GSP421**

*Hippopotamus sp*

Lake Albert,  
Kagusa Mb.

Molar  
fragment

Surface Find; E30° 18.836';  
N0000° 59.652'

core apical

GSP421-1 AB-01	50	0.014	Enamel	425	981	54.85	0.15	0.48
GSP421-1 AB-02	166	0.048	Enamel	400	1034	55.06	0.16	0.43
GSP421-1 AB-03	282	0.082	Enamel	737	1151	54.77	0.17	0.48
GSP421-1 AB-04	398	0.115	Enamel	390	863	53.90	0.18	0.47
GSP421-1 AB-05	514	0.149	Enamel	253	408	52.04	0.17	0.62
GSP421-1 AB-06	630	0.183	Enamel	164	380	53.84	0.20	0.60
GSP421-1 AB-07	746	0.216	Enamel	149	367	53.96	0.22	0.64
GSP421-1 AB-08	862	0.250	Enamel	149	357	54.04	0.24	0.68
GSP421-1 AB-09	978	0.283	Enamel	139	350	53.61	0.26	0.73
GSP421-1 AB-10	1094	0.317	Enamel	138	358	54.40	0.23	0.80
GSP421-1 AB-11	1210	0.351	Enamel	142	368	54.51	0.22	0.80
GSP421-1 AB-12	1326	0.384	Enamel	142	365	54.40	0.22	0.87
GSP421-1 AB-13	1442	0.418	Enamel	140	361	54.17	0.22	0.84
GSP421-1 AB-14	1558	0.452	Enamel	141	369	54.68	0.24	0.84
GSP421-1 AB-15	1674	0.485	Enamel	142	375	54.71	0.25	0.90
GSP421-1 AB-16	1790	0.519	Enamel	144	376	54.31	0.23	0.98
GSP421-1 AB-17	1906	0.552	Enamel	140	382	54.39	0.25	0.93
GSP421-1 AB-18	2022	0.586	Enamel	143	379	54.65	0.25	1.01
GSP421-1 AB-19	2138	0.620	Enamel	152	401	54.42	0.25	0.93
GSP421-1 AB-20	2254	0.653	Enamel	160	417	54.51	0.28	1.07

GSP421-1 AB-21	2370	0.687	Enamel	160	408	53.67	0.30	1.09
GSP421-1 AB-22	2486	0.721	Enamel	156	409	54.08	0.32	1.10
GSP421-1 AB-23	2602	0.754	Enamel	153	413	53.60	0.31	1.21
GSP421-1 AB-24	2718	0.788	Enamel	158	423	53.48	0.32	1.18
GSP421-1 AB-25	2834	0.821	Enamel	159	434	53.39	0.32	1.08
GSP421-1 AB-26	2950	0.855	Enamel	167	445	53.34	0.34	1.15
GSP421-1 AB-27	3066	0.889	Enamel	181	466	53.18	0.30	1.19
GSP421-1 AB-28	3182	0.922	Enamel	192	481	53.27	0.34	1.28
GSP421-1 AB-29	3298	0.956	Enamel	197	488	53.43	0.36	1.28
GSP421-1 AB-30	3414	0.990	Enamel	333	568	54.25	0.37	1.31
core cervical								
GPS421-2 AB-01	50	0.019	Enamel	584	1050	53.10	0.13	0.50
GPS421-2 AB-02	138	0.052	Enamel	478	934	51.95	0.13	0.47
GPS421-2 AB-03	226	0.085	Enamel	352	973	52.61	0.17	0.52
GPS421-2 AB-04	314	0.118	Enamel	236	972	52.68	0.22	0.50
GPS421-2 AB-05	402	0.152	Enamel	287	928	53.28	0.18	0.56
GPS421-2 AB-06	490	0.185	Enamel	222	828	52.03	0.23	0.61
GPS421-2 AB-07	578	0.218	Enamel	212	761	52.45	0.21	0.70
GPS421-2 AB-08	666	0.251	Enamel	205	734	53.31	0.18	0.68
GPS421-2 AB-09	754	0.285	Enamel	197	691	53.25	0.19	0.68
GPS421-2 AB-10	842	0.318	Enamel	193	610	53.12	0.18	0.67
GPS421-2 AB-11	930	0.351	Enamel	185	594	52.97	0.21	0.72
GPS421-2 AB-12	1018	0.384	Enamel	177	577	52.54	0.21	0.72
GPS421-2 AB-13	1106	0.417	Enamel	171	558	52.46	0.17	0.77
GPS421-2 AB-14	1194	0.451	Enamel	175	558	52.81	0.19	0.75
GPS421-2 AB-15	1282	0.484	Enamel	175	596	53.56	0.19	0.81
GPS421-2 AB-16	1370	0.517	Enamel	163	632	52.74	0.20	0.84
GPS421-2 AB-17	1458	0.550	Enamel	169	655	53.12	0.21	0.75
GPS421-2 AB-18	1546	0.583	Enamel	175	681	53.04	0.23	0.75
GPS421-2 AB-19	1634	0.617	Enamel	181	689	53.85	0.19	0.74
GPS421-2 AB-20	1722	0.650	Enamel	185	670	54.01	0.23	0.81
GPS421-2 AB-21	1810	0.683	Enamel	187	650	52.94	0.23	0.92
GPS421-2 AB-22	1898	0.716	Enamel	197	643	53.51	0.21	0.79
GPS421-2 AB-23	1986	0.749	Enamel	165	633	53.48	0.22	0.79
GPS421-2 AB-24	2074	0.783	Enamel	175	697	53.80	0.27	0.94
GPS421-2 AB-25	2162	0.816	Enamel	200	712	53.73	0.20	0.87
GPS421-2 AB-26	2250	0.849	Enamel	211	743	52.61	0.27	0.92
GPS421-2 AB-27	2338	0.882	Enamel	214	740	53.60	0.25	1.02
GPS421-2 AB-28	2426	0.915	Enamel	206	731	53.21	0.23	0.96
GPS421-2 AB-29	2514	0.949	Enamel	199	811	52.49	0.27	0.95
GPS421-2 AB-30	2602	0.982	Enamel	226	853	52.34	0.28	0.91

<b>GSP405</b>	<i>Hippopotamus sp</i>	Lake Albert, Warwire Fm.	Molar M3 fragment	Surface Find; E30° 52.925' N001° 24.398'				
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core apical

GPS405-2 AB-01	50	0.020	Enamel	458	560	50.39	0.12	0.49
GPS405-2 AB-02	148	0.060	Enamel	605	673	53.90	0.17	0.71
GPS405-2 AB-03	246	0.100	Enamel	588	736	53.92	0.13	0.83
GPS405-2 AB-04	344	0.140	Enamel	590	714	54.06	0.15	0.76
GPS405-2 AB-05	442	0.180	Enamel	543	659	54.13	0.18	0.77
GPS405-2 AB-06	540	0.220	Enamel	484	658	54.21	0.18	0.80
GPS405-2 AB-07	638	0.260	Enamel	446	640	54.59	0.18	0.80
GPS405-2 AB-08	736	0.300	Enamel	437	601	54.34	0.19	0.77
GPS405-2 AB-09	834	0.340	Enamel	473	685	54.10	0.20	0.92
GPS405-2 AB-10	932	0.380	Enamel	492	720	54.09	0.20	0.92
GPS405-2 AB-11	1030	0.420	Enamel	537	690	54.04	0.19	0.97
GPS405-2 AB-12	1128	0.460	Enamel	577	689	53.83	0.23	1.01
GPS405-2 AB-13	1226	0.500	Enamel	576	686	53.89	0.21	1.08
GPS405-2 AB-14	1324	0.540	Enamel	539	698	53.90	0.23	1.00
GPS405-2 AB-15	1422	0.580	Enamel	570	726	54.25	0.25	1.06
GPS405-2 AB-16	1520	0.620	Enamel	607	768	53.89	0.23	1.08
GPS405-2 AB-17	1618	0.660	Enamel	667	817	53.75	0.24	1.09
GPS405-2 AB-18	1716	0.700	Enamel	666	846	54.14	0.22	1.18
GPS405-2 AB-19	1814	0.740	Enamel	665	877	53.80	0.23	1.22
GPS405-2 AB-20	1912	0.780	Enamel	681	891	53.89	0.23	1.11
GPS405-2 AB-21	2010	0.820	Enamel	691	892	53.76	0.24	1.21
GPS405-2 AB-22	2108	0.860	Enamel	653	862	54.28	0.24	1.21
GPS405-2 AB-23	2206	0.900	Enamel	717	910	53.93	0.31	1.22
GPS405-2 AB-24	2304	0.940	Enamel	795	965	53.91	0.26	1.31
GPS405-2 AB-25	2402	0.980	Enamel	925	1193	54.43	0.29	1.47
GPS405-2 AB-26	2500	1.020	Dentin	1014	1233	54.07	0.21	0.54
GPS405-2 AB-27	2598	1.060	Dentin	1054	1282	54.27	0.20	0.53
GPS405-2 AB-28	2696	1.100	Dentin	1099	1253	52.08	0.21	0.52
GPS405-2 AB-29	2794	1.140	Dentin	1135	1244	53.73	0.18	0.52
GPS405-2 AB-30	2892	1.180	Dentin	1795	1252	51.79	0.27	0.50

core cervical

GPS405-1 AB-01	50	0.017	Enamel	518	800	50.01	0.10	0.48
GPS405-1 AB-02	175	0.061	Enamel	492	768	53.94	0.21	0.64
GPS405-1 AB-03	300	0.105	Enamel	495	737	53.61	0.20	0.72
GPS405-1 AB-04	425	0.149	Enamel	488	711	53.71	0.23	0.77
GPS405-1 AB-05	550	0.192	Enamel	461	720	54.57	0.23	0.77
GPS405-1 AB-06	675	0.236	Enamel	444	698	54.02	0.26	0.83
GPS405-1 AB-07	800	0.280	Enamel	465	696	54.39	0.26	0.87
GPS405-1 AB-08	925	0.323	Enamel	467	683	54.25	0.26	0.94
GPS405-1 AB-09	1050	0.367	Enamel	492	698	54.64	0.22	0.90
GPS405-1 AB-10	1175	0.411	Enamel	541	724	54.47	0.22	0.95

GPS405-1 AB-11	1300	0.455	Enamel	578	774	54.03	0.22	0.94
GPS405-1 AB-12	1425	0.498	Enamel	585	773	53.95	0.25	1.05
GPS405-1 AB-13	1550	0.542	Enamel	598	783	53.90	0.26	1.18
GPS405-1 AB-14	1675	0.586	Enamel	645	806	53.94	0.24	1.09
GPS405-1 AB-15	1800	0.629	Enamel	667	853	54.16	0.25	1.21
GPS405-1 AB-16	1925	0.673	Enamel	650	853	53.84	0.24	1.19
GPS405-1 AB-17	2050	0.717	Enamel	689	894	54.38	0.23	1.13
GPS405-1 AB-18	2175	0.760	Enamel	673	885	54.55	0.28	1.22
GPS405-1 AB-19	2300	0.804	Enamel	696	894	54.52	0.26	1.23
GPS405-1 AB-20	2425	0.848	Enamel	704	895	54.44	0.27	1.23
GPS405-1 AB-21	2550	0.892	Enamel	738	935	54.47	0.29	1.35
GPS405-1 AB-22	2675	0.935	Enamel	793	999	54.88	0.27	1.39
GPS405-1 AB-23	2800	0.979	Enamel	993	1217	54.68	0.28	1.33
GPS405-1 AB-24	2925	1.023	Dentin	1006	1194	53.49	0.28	0.51
GPS405-1 AB-25	3050	1.066	Dentin	1021	1204	53.81	0.24	0.50
GPS405-1 AB-26	3175	1.110	Dentin	999	1208	54.73	0.21	0.50
GPS405-1 AB-27	3300	1.154	Dentin	514	793	54.26	0.21	0.52
GPS405-1 AB-28	3425	1.198	Dentin	1022	1198	54.76	0.24	0.43
GPS405-1 AB-29	3550	1.241	Dentin	996	1240	52.98	0.23	0.55
GPS405-1 AB-30	3675	1.285	Dentin	978	1197	54.79	0.23	0.48

<b>GSP396</b>	<i>Hippopotamus sp</i>	Lake Albert, Warwire Fm.	molar P fragment	Surface Find; E30° 55.318' N01° 25.608'				
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core apical

GPS396-1 AB-01	50	0.020	Enamel	458	560	54.20	0.10	0.50
GPS396-1 AB-02	148	0.060	Enamel	605	673	54.30	0.12	0.50
GPS396-1 AB-03	246	0.100	Enamel	588	736	54.35	0.12	0.46
GPS396-1 AB-04	344	0.140	Enamel	590	714	54.37	0.16	0.56
GPS396-1 AB-05	442	0.180	Enamel	543	659	54.16	0.15	0.54
GPS396-1 AB-06	540	0.220	Enamel	484	658	54.14	0.15	0.49
GPS396-1 AB-07	638	0.260	Enamel	446	640	53.34	0.17	0.51
GPS396-1 AB-08	736	0.300	Enamel	437	601	49.71	0.16	0.52
GPS396-1 AB-09	834	0.340	Enamel	473	685	54.50	0.15	0.58
GPS396-1 AB-10	932	0.380	Enamel	492	720	54.32	0.18	0.65
GPS396-1 AB-11	1030	0.420	Enamel	537	690	54.49	0.15	0.62
GPS396-1 AB-12	1128	0.460	Enamel	577	689	54.33	0.16	0.60
GPS396-1 AB-13	1226	0.500	Enamel	576	686	52.98	0.20	0.64
GPS396-1 AB-14	1324	0.540	Enamel	539	698	52.15	0.22	0.59
GPS396-1 AB-15	1422	0.580	Enamel	570	726	54.14	0.18	0.71
GPS396-1 AB-16	1520	0.620	Enamel	607	768	54.56	0.19	0.67
GPS396-1 AB-17	1618	0.660	Enamel	667	817	53.64	0.22	0.72
GPS396-1 AB-18	1716	0.700	Enamel	666	846	53.16	0.12	0.51
GPS396-1 AB-19	1814	0.740	Enamel	665	877	53.58	0.17	0.63
GPS396-1 AB-20	1912	0.780	Enamel	681	891	53.55	0.21	0.65
GPS396-1 AB-21	2010	0.820	Enamel	691	892	54.12	0.17	0.69
GPS396-1 AB-22	2108	0.860	Enamel	653	862	53.52	0.19	0.78

GPS396-1 AB-23	2206	0.900	Enamel	717	910	53.37	0.18	0.73
GPS396-1 AB-24	2304	0.940	Enamel	795	965	53.31	0.19	0.77
GPS396-1 AB-25	2402	0.980	Enamel	925	1193	52.78	0.15	0.70
GPS396-1 AB-26	2500	1.020	dentin	1014	1233	52.41	0.11	0.37
GPS396-1 AB-27	2598	1.060	dentin	1054	1282	52.90	0.11	0.34
GPS396-1 AB-28	2696	1.100	dentin	1099	1253	52.86	0.10	0.39
GPS396-1 AB-29	2794	1.140	dentin	1135	1244	52.88	0.12	0.44
GPS396-1 AB-30	2892	1.180	dentin	1795	1252	53.07	0.10	0.43
core cervical								
GPS396-2 AB-01	50	0.017	Enamel	518	800	53.43	0.10	0.56
GPS396-2 AB-02	150	0.050	Enamel	492	768	53.96	0.14	0.46
GPS396-2 AB-03	250	0.083	Enamel	495	737	54.14	0.14	0.49
GPS396-2 AB-04	350	0.117	Enamel	488	711	53.52	0.15	0.43
GPS396-2 AB-05	450	0.150	Enamel	461	720	54.03	0.13	0.49
GPS396-2 AB-06	550	0.183	Enamel	444	698	53.94	0.16	0.51
GPS396-2 AB-07	650	0.217	Enamel	465	696	53.55	0.16	0.57
GPS396-2 AB-08	750	0.250	Enamel	467	683	53.77	0.18	0.57
GPS396-2 AB-09	850	0.283	Enamel	492	698	53.90	0.16	0.63
GPS396-2 AB-10	950	0.317	Enamel	541	724	53.90	0.15	0.59
GPS396-2 AB-11	1050	0.350	Enamel	578	774	53.60	0.13	0.42
GPS396-2 AB-12	1150	0.383	Enamel	585	773	53.78	0.18	0.61
GPS396-2 AB-13	1250	0.417	Enamel	598	783	53.90	0.16	0.68
GPS396-2 AB-14	1350	0.450	Enamel	645	806	53.88	0.18	0.76
GPS396-2 AB-15	1450	0.483	Enamel	667	853	53.60	0.20	0.80
GPS396-2 AB-16	1550	0.517	Enamel	650	853	53.59	0.19	0.71
GPS396-2 AB-17	1650	0.550	Enamel	689	894	53.48	0.18	0.78
GPS396-2 AB-18	1750	0.583	Enamel	673	885	53.53	0.16	0.62
GPS396-2 AB-19	1850	0.617	Enamel	696	894	53.53	0.16	0.62
GPS396-2 AB-20	1950	0.650	Enamel	704	895	53.52	0.16	0.62
GPS396-2 AB-21	2050	0.683	Enamel	738	935	53.52	0.16	0.62
GPS396-2 AB-22	2150	0.717	Enamel	793	999	53.52	0.16	0.62
GPS396-2 AB-23	2250	0.750	Enamel	993	1217	53.52	0.16	0.62
GPS396-2 AB-24	2350	0.783	Enamel	1006	1194	53.51	0.16	0.62
GPS396-2 AB-25	2450	0.817	Enamel	1021	1204	53.51	0.16	0.63
GPS396-2 AB-26	2550	0.850	Enamel	999	1208	53.51	0.16	0.63
GPS396-2 AB-27	2650	0.883	Enamel	514	793	53.50	0.16	0.63
GPS396-2 AB-28	2750	0.917	Enamel	1022	1198	53.50	0.16	0.63
GPS396-2 AB-29	2850	0.950	Enamel	996	1240	53.50	0.16	0.63
GPS396-2 AB-30	2950	0.983	Enamel	978	1197	53.49	0.16	0.63

<b>GSP387</b>	<i>Hippopotamus sp</i>	Lake Albert, Warwire Fm.	molar fragment	Surface Find; E030.92718° N01.45365°				
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core apical

GPS387-AB-1	38	0.017	Enamel	307	579	53.00	0.13	0.58
GPS387-AB-2	76	0.034	Enamel	572	540	54.22	0.16	0.65
GPS387-AB-3	152	0.068	Enamel	620	492	54.31	0.20	0.69
GPS387-AB-4	228	0.101	Enamel	620	479	53.99	0.19	0.75
GPS387-AB-5	304	0.135	Enamel	647	472	54.32	0.17	0.69
GPS387-AB-6	380	0.169	Enamel	653	483	54.14	0.19	0.75
GPS387-AB-7	456	0.203	Enamel	643	483	54.15	0.17	0.76
GPS387-AB-8	532	0.236	Enamel	648	501	54.49	0.20	0.76
GPS387-AB-9	608	0.270	Enamel	614	481	54.01	0.18	0.78
GPS387-AB-10	684	0.304	Enamel	604	484	54.49	0.19	0.79
GPS387-AB-11	760	0.338	Enamel	609	483	54.68	0.23	0.76
GPS387-AB-12	836	0.372	Enamel	635	494	54.32	0.21	0.88
GPS387-AB-13	912	0.405	Enamel	659	511	54.15	0.22	0.87
GPS387-AB-14	988	0.439	Enamel	685	519	53.87	0.22	0.83
GPS387-AB-15	1064	0.473	Enamel	701	533	54.26	0.22	0.83
GPS387-AB-16	1140	0.507	Enamel	730	542	54.12	0.24	0.95
GPS387-AB-17	1216	0.540	Enamel	747	537	53.99	0.24	0.94
GPS387-AB-18	1292	0.574	Enamel	765	539	54.39	0.21	1.02
GPS387-AB-19	1368	0.608	Enamel	796	556	54.63	0.24	1.08
GPS387-AB-20	1444	0.642	Enamel	795	565	54.36	0.24	1.01
GPS387-AB-21	1520	0.676	Enamel	813	586	54.51	0.26	0.97
GPS387-AB-22	1596	0.709	Enamel	819	584	54.42	0.25	1.07
GPS387-AB-23	1672	0.743	Enamel	801	577	54.35	0.24	1.04
GPS387-AB-24	1748	0.777	Enamel	821	601	54.29	0.23	1.04
GPS387-AB-25	1824	0.811	Enamel	797	606	53.77	0.23	1.13
GPS387-AB-26	1900	0.844	Enamel	716	635	53.75	0.26	1.18
GPS387-AB-27	1976	0.878	Enamel	690	633	54.12	0.27	1.23
GPS387-AB-28	2052	0.912	Enamel	714	654	53.89	0.26	1.22
GPS387-AB-29	2128	0.946	Enamel	693	674	54.27	0.27	1.15
GPS387-AB-30	2204	0.980	Enamel	714	699	54.59	0.19	0.52

<b>Cat# 028-06</b>	<i>Hippopotamus sp</i>	Lake Albert, Nkondo Fm.	Molar fragment	Surface Find; E30.8829189 N1.401738233				
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apical

2806-1CD-01	50	0.021	Enamel	669	634	55.12	0.11	0.64
2806-1CD-02	152	0.065	Enamel	732	598	54.80	0.18	0.53
2806-1CD-03	304	0.129	Enamel	692	602	54.28	0.21	0.64
2806-1CD-04	456	0.194	Enamel	695	625	55.04	0.15	0.69
2806-1CD-05	608	0.259	Enamel	708	604	55.22	0.16	0.73
2806-1CD-06	760	0.323	Enamel	658	586	54.86	0.18	0.75
2806-1CD-07	912	0.388	Enamel	751	563	55.07	0.15	0.76
2806-1CD-08	1064	0.453	Enamel	734	589	54.47	0.20	0.82

2806-1CD-09	1216	0.517	Enamel	837	598	54.81	0.20	0.77
2806-1CD-10	1368	0.582	Enamel	810	607	55.12	0.21	0.82
2806-1CD-11	1520	0.647	Enamel	840	624	54.97	0.20	0.80
2806-1CD-12	1672	0.711	Enamel	850	645	55.39	0.20	0.87
2806-1CD-13	1824	0.776	Enamel	745	632	55.25	0.22	0.87
2806-1CD-14	1976	0.841	Enamel	771	643	54.64	0.22	0.90
2806-1CD-15	2128	0.906	Enamel	745	655	54.62	0.22	1.03
2806-1CD-16	2280	0.970	Enamel	1189	664	55.02	0.25	1.04
2806-1CD-17	2432	1.035	Dentin	1546	871	54.41	0.26	1.07
apical								
2806-1CD-01	2128	0.906	Enamel	868	727	55.12	0.11	0.64
2806-1CD-02	1995	0.849	Enamel	774	664	54.80	0.18	0.53
2806-1CD-03	1862	0.792	Enamel	781	668	54.28	0.21	0.64
2806-1CD-04	1729	0.736	Enamel	772	674	55.04	0.15	0.69
2806-1CD-05	1596	0.679	Enamel	824	673	55.22	0.16	0.73
2806-1CD-06	1463	0.623	Enamel	754	638	54.86	0.18	0.75
2806-1CD-07	1330	0.566	Enamel	835	621	55.07	0.15	0.76
2806-1CD-08	1197	0.509	Enamel	762	637	54.47	0.20	0.82
2806-1CD-09	1064	0.453	Enamel	719	647	54.81	0.20	0.77
2806-1CD-10	931	0.396	Enamel	713	609	55.12	0.21	0.82
2806-1CD-11	798	0.340	Enamel	682	622	54.97	0.20	0.80
2806-1CD-12	665	0.283	Enamel	667	626	55.39	0.20	0.87
2806-1CD-13	532	0.226	Enamel	712	674	55.25	0.22	0.87
2806-1CD-14	399	0.170	Enamel	694	683	54.64	0.22	0.90
2806-1CD-15	266	0.113	Enamel	738	669	54.62	0.22	1.03
2806-1CD-16	133	0.057	Enamel	811	631	55.02	0.25	1.04
2806-1CD-17	50	0.021	Enamel	795	655	54.41	0.26	1.07
central								
2806-1AB-01	66	0.026	Dentin	1986	1575	54.26	0.09	0.65
2806-1AB-02	131	0.051	Dentin	2103	1661	53.76	0.13	0.59
2806-1AB-03	262	0.103	Dentin	2027	1670	54.11	0.15	0.60
2806-1AB-05	524	0.205	Dentin	2155	1725	54.48	0.14	0.57
2806-1AB-07	786	0.308	Dentin	1960	1564	50.12	0.16	0.58
2806-1AB-09	1048	0.411	Dentin	1856	1573	52.37	0.15	0.65
2806-1AB-11	1310	0.514	Dentin	2022	1617	53.78	0.20	0.51
2806-1AB-13	1572	0.616	Dentin	2089	1698	54.67	0.16	0.51
2806-1AB-15	1834	0.719	Dentin	1930	1635	53.85	0.18	0.49
2806-1AB-17	2096	0.822	Dentin	1851	1629	54.27	0.15	0.50
2806-1AB-19	2358	0.925	Dentin	1885	1622	54.29	0.24	0.49
2806-1AB-20	2489	0.976	Dentin	2275	1589	53.88	0.12	0.63

<b>Cat# 051-06</b>	<i>Hippopotamus sp</i>	Lake Albert, Nkondo Fm.	Molar fragment	Surface Find; E30.9098407 N1.4331446				
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apical

5106-1AB-02	120	0.044	Enamel	164	668	55.70	0.25	0.65
5106-1AB-03	240	0.089	Enamel	205	674	55.52	0.21	0.63
5106-1AB-04	360	0.133	Enamel	204	682	56.04	0.20	0.72
5106-1AB-05	480	0.178	Enamel	197	669	55.49	0.16	0.66
5106-1AB-06	600	0.222	Enamel	145	565	55.56	0.17	0.83
5106-1AB-07	720	0.267	Enamel	142	550	55.59	0.20	0.76
5106-1AB-08	840	0.311	Enamel	153	553	55.43	0.21	0.85
5106-1AB-09	960	0.356	Enamel	153	605	55.47	0.21	0.83
5106-1AB-10	1080	0.400	Enamel	144	684	55.76	0.18	0.79
5106-1AB-11	1200	0.444	Enamel	254	705	55.51	0.20	0.80
5106-1AB-12	1320	0.489	Enamel	266	718	55.23	0.21	0.76
5106-1AB-13	1440	0.533	Enamel	396	690	55.37	0.18	0.64
5106-1AB-14	1560	0.578	Enamel	301	706	55.21	0.19	0.55
5106-1AB-15	1680	0.622	Enamel	528	733	54.85	0.12	0.48
5106-1AB-16	1800	0.667	Enamel	436	704	55.20	0.14	0.53
5106-1AB-17	1920	0.711	Enamel	490	697	54.53	0.13	0.44
5106-1AB-18	2040	0.756	Enamel	633	692	54.79	0.09	0.52
5106-1AB-19	2160	0.800	Enamel	694	711	54.65	0.13	0.42
5106-1AB-20	2280	0.844	Enamel	911	735	55.39	0.10	0.38
5106-1AB-21	2400	0.889	Enamel	1021	750	55.41	0.10	0.40
5106-1AB-22	2520	0.933	Enamel	864	742	55.38	0.10	0.40
5106-1AB-23	2640	0.978	Enamel	256	559	54.30	0.10	0.27
5106-1AB-24	2760	1.022	Dentin	125	806	59.66	0.18	0.31
5106-1AB-26	3000	1.111	Dentin	4241	1074	53.88	0.09	0.28
5106-1AB-27	3120	1.156	Dentin	4302	835	53.88	0.09	0.28
5106-1AB-29	3360	1.244	Dentin	2337	781	55.54	0.05	0.25

<b>Cat# 027-06</b>	<i>Hippopotamus sp</i>	Lake Albert, Nkondo Fm.	Molar fragment	Surface Find; E30.8817553 N1.40699002				
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apical

2706-1AB-01	50	0.020	Enamel	565	478	55.29	0.21	0.87
2706-1AB-02	164	0.065	Enamel	603	473	55.39	0.20	0.85
2706-1AB-03	328	0.129	Enamel	641	489	55.69	0.23	0.92
2706-1AB-04	492	0.194	Enamel	1701	505	55.59	0.21	0.87
2706-1AB-05	656	0.258	Enamel	1632	521	55.49	0.22	0.97
2706-1AB-06	820	0.323	Enamel	657	513	55.94	0.21	0.91
2706-1AB-07	984	0.387	Enamel	655	519	55.44	0.24	0.98
2706-1AB-08	1148	0.452	Enamel	652	527	55.75	0.22	0.99
2706-1AB-09	1312	0.517	Riss	516	506	55.35	0.27	1.00
2706-1AB-10	1476	0.581	Enamel	674	521	55.75	0.23	1.04
2706-1AB-11	1640	0.646	Enamel	739	526	55.08	0.22	1.08
2706-1AB-12	1804	0.710	Enamel	789	553	55.87	0.24	1.15



2706-1AB-13	1968	0.775	Enamel	833	568	55.32	0.28	1.28
2706-1AB-14	2132	0.839	Enamel	864	575	55.34	0.22	1.30
2706-1AB-15	2296	0.904	Enamel	822	548	55.36	0.23	1.43
2706-1AB-16	2460	0.969	Enamel	922	615	55.41	0.29	0.50
2706-1AB-17	2624	1.033	Dentin	561	1240	55.52	0.23	0.43

<b>GPS165</b>	<i>Hippopotamus sp</i>	Lake Albert, Nyabusosi Fm, Kagusa Mb.	Molar fragment	Surface Find; E30°18,597 N0°59,238				
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cervical

GPS165-1AB-01	95	0.029	Enamel	245	718	54.53	0.19	0.89
GPS165-1AB-02	190	0.058	Enamel	478	677	55.46	0.23	0.75
GPS165-1AB-03	380	0.115	Enamel	334	628	55.46	0.24	0.84
GPS165-1AB-04	570	0.173	Enamel	310	624	55.48	0.26	0.88
GPS165-1AB-05	760	0.230	Enamel	391	615	55.23	0.22	0.86
GPS165-1AB-06	950	0.288	Enamel	561	603	55.58	0.22	0.99
GPS165-1AB-07	1140	0.345	Enamel	370	584	55.32	0.25	1.07
GPS165-1AB-08	1330	0.403	Enamel	417	596	55.65	0.27	1.07
GPS165-1AB-09	1520	0.461	Enamel	581	603	55.25	0.28	1.06
GPS165-1AB-10	1710	0.518	Enamel	439	617	55.65	0.30	1.08
GPS165-1AB-11	1900	0.576	Enamel	724	625	54.77	0.30	1.14
GPS165-1AB-12	2090	0.633	Enamel	954	746	56.14	0.29	1.13
GPS165-1AB-13	2280	0.691	Enamel	383	728	55.41	0.35	1.24
GPS165-1AB-14	2470	0.748	Enamel	920	782	55.37	0.28	1.28
GPS165-1AB-15	2660	0.806	Enamel	942	756	55.37	0.28	1.28
GPS165-1AB-16	2850	0.864	Enamel	365	728	55.37	0.28	1.28
GPS165-1AB-17	3040	0.921	Enamel	342	706	55.37	0.28	1.28
GPS165-1AB-18	3230	0.979	Enamel	312	665	55.37	0.28	1.28

cervical

GPS165-1AB-02	240	0.075	Enamel	319	604	55.46	0.23	0.75
GPS165-1AB-03	480	0.149	Enamel	294	605	55.46	0.24	0.84
GPS165-1AB-04	720	0.224	Enamel	435	616	55.48	0.26	0.88
GPS165-1AB-05	960	0.298	Enamel	324	636	55.23	0.22	0.86
GPS165-1AB-06	1200	0.373	Enamel	468	660	55.58	0.22	0.99
GPS165-1AB-07	1440	0.447	Enamel	329	674	55.32	0.25	1.07
GPS165-1AB-08	1680	0.522	Enamel	723	775	55.65	0.27	1.07
GPS165-1AB-09	1920	0.596	Enamel	1253	840	55.25	0.28	1.06
GPS165-1AB-10	2160	0.671	Enamel	326	783	55.65	0.30	1.08
GPS165-1AB-11	2400	0.745	Enamel	697	828	54.77	0.30	1.14
GPS165-1AB-12	2640	0.820	Enamel	384	829	56.14	0.29	1.13
GPS165-1AB-13	2880	0.894	Enamel	329	755	55.41	0.35	1.24
GPS165-1AB-14	3120	0.969	Enamel	359	805	55.37	0.28	1.28
GPS165-1AB-15	3360	1.043	Dentin	274	861	55.15	0.23	0.63
GPS165-1AB-16	3600	1.118	Dentin	250	735	55.12	0.20	0.68

cervical

GPS165-1CD-01	850	0.032	Enamel	320	592	56.03	0.22	0.84
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GPS165-1CD-02	958	0.070	Enamel	329	607	55.49	0.24	0.85
GPS165-1CD-03	1066	0.139	Enamel	647	614	54.69	0.19	0.90
GPS165-1CD-04	1174	0.209	Enamel	386	612	55.42	0.26	0.88
GPS165-1CD-05	1282	0.279	Enamel	387	613	55.03	0.24	0.92
GPS165-1CD-06	1390	0.348	Enamel	299	610	55.25	0.22	0.85
GPS165-1CD-07	1498	0.418	Enamel	630	651	55.59	0.27	0.92
GPS165-1CD-08	1606	0.488	Enamel	585	669	55.31	0.22	0.97
GPS165-1CD-09	1714	0.557	Enamel	1222	719	55.58	0.22	0.94
GPS165-1CD-10	1822	0.627	Enamel	468	724	55.60	0.27	0.88
GPS165-1CD-11	1930	0.697	Enamel	397	696	55.48	0.28	0.84
GPS165-1CD-12	2038	0.766	Enamel	351	715	54.56	0.29	0.95
GPS165-1CD-13	2146	0.836	Enamel	375	772	55.54	0.24	1.00
GPS165-1CD-14	2254	0.906	Enamel	830	792	54.77	0.29	1.01
GPS165-1CD-15	2362	0.975	Enamel	555	813	54.36	0.26	1.01

<b>Cat# 007-06</b>	<i>Hippopotamus sp</i>	Lake Albert, Nkondo Fm.	Molar fragment	Surface Find; E30.89527824 N1.413623599				
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cervical

007-1AB 01	50	0.029	Enamel	559	403	54.78	0.23	0.90
007-1AB 02	111	0.065	Enamel	590	426	54.04	0.27	0.86
007-1AB 03	222	0.130	Enamel	616	442	53.71	0.25	0.99
007-1AB 04	333	0.195	Enamel	605	453	54.71	0.23	0.98
007-1AB 05	444	0.260	Enamel	621	463	53.60	0.24	1.00
007-1AB 06	555	0.325	Enamel	635	479	55.03	0.22	0.97
007-1AB 07	666	0.389	Enamel	662	491	54.20	0.22	1.06
007-1AB 08	777	0.454	Enamel	675	490	54.10	0.20	1.12
007-1AB 09	888	0.519	Enamel	698	516	54.22	0.25	1.10
007-1AB 10	999	0.584	Enamel	747	516	53.40	0.22	1.14
007-1AB 11	1110	0.649	Enamel	773	523	54.49	0.26	1.26
007-1AB 12	1221	0.714	Enamel	798	540	53.28	0.30	1.25
007-1AB 13	1332	0.779	Enamel	823	538	54.38	0.26	1.31
007-1AB 14	1443	0.844	Enamel	854	555	53.16	0.24	1.35
007-1AB 15	1554	0.909	Enamel	880	548	53.73	0.28	1.32
007-1AB 16	1665	0.974	Enamel	905	559	54.09	0.26	1.37
007-1AB 17	1776	1.039	Dentin	1142	1641	52.97	0.19	0.63
007-1AB 18	1887	1.104	Dentin	1433	1617	53.00	0.17	0.80
007-1AB 19	1998	1.168	Dentin	1474	1596	52.47	0.16	0.61

central

007-2AB 01	66	0.032	Enamel	307	574	53.35	0.17	0.64
007-2AB 02	132	0.064	Enamel	259	573	53.97	0.15	0.74
007-2AB 03	264	0.129	Enamel	393	486	53.87	0.14	0.86
007-2AB 04	396	0.193	Enamel	356	479	53.55	0.14	0.88
007-2AB 05	528	0.258	Enamel	482	467	54.70	0.22	0.93
007-2AB 06	660	0.322	Enamel	514	440	54.05	0.20	0.96
007-2AB 07	792	0.386	Enamel	646	475	54.45	0.24	0.96
007-2AB 08	924	0.451	Enamel	682	480	53.62	0.24	0.99

007-2AB 09	1056	0.515	Enamel	701	486	54.01	0.23	1.09
007-2AB 10	1188	0.580	Enamel	695	478	53.41	0.17	1.03
007-2AB 11	1320	0.644	Enamel	701	496	53.97	0.23	1.07
007-2AB 12	1452	0.708	Enamel	719	497	53.93	0.18	1.08
007-2AB 13	1584	0.773	Enamel	763	513	53.64	0.23	1.24
007-2AB 14	1716	0.837	Enamel	789	519	54.28	0.21	1.25
007-2AB 15	1848	0.901	Enamel	765	520	52.91	0.25	1.23
007-2AB 16	1980	0.966	Enamel	838	537	53.80	0.21	1.41
007-2AB 17	2112	1.030	Dentin	1069	1422	52.95	0.25	0.63
007-2AB 18	2244	1.095	Dentin	1148	1617	52.95	0.26	0.53
007-2AB 19	2376	1.159	Dentin	1277	1621	53.01	0.18	0.59
apical								
007-3AB 01	50	0.027	Enamel	1346	1709	53.57	0.23	0.70
007-3AB 02	111	0.061	Enamel	493	620	53.42	0.17	0.73
007-3AB 03	222	0.121	Enamel	454	558	53.23	0.14	0.84
007-3AB 04	333	0.182	Enamel	486	552	53.75	0.15	0.81
007-3AB 05	444	0.243	Enamel	568	537	53.72	0.20	0.86
007-3AB 06	555	0.303	Enamel	601	480	53.34	0.19	0.97
007-3AB 07	666	0.364	Enamel	627	488	54.27	0.21	0.93
007-3AB 08	777	0.425	Enamel	661	495	53.92	0.19	0.96
007-3AB 09	888	0.485	Enamel	678	492	54.08	0.24	0.90
007-3AB 10	999	0.546	Enamel	681	499	53.93	0.22	1.02
007-3AB 11	1110	0.607	Enamel	667	507	53.67	0.20	1.08
007-3AB 12	1221	0.667	Enamel	687	518	54.06	0.22	1.17
007-3AB 13	1332	0.728	Enamel	730	509	53.50	0.23	1.20
007-3AB 14	1443	0.789	Enamel	778	529	54.34	0.22	1.22
007-3AB 15	1554	0.849	Enamel	755	525	54.28	0.25	1.20
007-3AB 16	1665	0.910	Enamel	734	505	53.83	0.28	1.40
007-3AB 17	1776	0.970	Enamel	718	507	52.66	0.20	0.81
007-3AB 18	1887	1.031	Dentin	942	1744	52.51	0.17	0.74
007-3AB 19	1998	1.092	Dentin	881	1777	53.45	0.18	0.63
007-3AB 20	2109	1.152	Dentin	1058	1867	53.72	0.18	0.62

Sample	Distance $\mu\text{m}$	Distance Norm	Mineral	Ba $\mu\text{g/g}$	Sr $\mu\text{g/g}$	CaO wt.%	MgO wt.%	Na <sub>2</sub> O wt.%
<b>Lake Kikorongo</b>	<i>Hippopotamus amphibius</i>	Lake Kikorongo	Molar M3	Surface Find; 36 M 167820 E; 9999258 S				
Kiko-1EF-01	50	0.015	Enamel	378	1765	55.12	1.18	1.25
Kiko-1EF-02	134	0.041	Enamel	261	1667	55.13	0.95	0.96
Kiko-1EF-03	268	0.082	Enamel	228	1637	54.80	0.74	0.91
Kiko-1EF-04	402	0.123	Enamel	203	1602	54.73	0.43	1.03
Kiko-1EF-05	536	0.163	Enamel	204	1678	55.04	0.32	0.85
Kiko-1EF-06	670	0.204	Enamel	190	1699	54.90	0.41	0.83
Kiko-1EF-07	804	0.245	Enamel	186	1908	55.11	0.40	0.86
Kiko-1EF-08	938	0.286	Enamel	197	2069	54.84	0.42	0.93
Kiko-1EF-09	1072	0.327	Enamel	222	2154	55.47	0.43	0.92
Kiko-1EF-10	1206	0.368	Enamel	238	2135	55.41	0.45	0.95
Kiko-1EF-11	1340	0.409	Enamel	244	2196	54.96	0.43	0.89
Kiko-1EF-12	1474	0.449	Enamel	255	2271	55.19	0.45	0.94
Kiko-1EF-13	1608	0.490	Enamel	251	2242	54.97	0.43	1.06
Kiko-1EF-14	1742	0.531	Enamel	258	2220	55.40	0.44	0.99
Kiko-1EF-15	1876	0.572	Enamel	255	2216	55.70	0.49	1.06
Kiko-1EF-16	2010	0.613	Enamel	271	2280	55.62	0.44	1.03
Kiko-1EF-17	2144	0.654	Enamel	265	2217	55.26	0.48	1.06
Kiko-1EF-18	2278	0.695	Enamel	284	2269	55.08	0.45	1.23
Kiko-1EF-19	2412	0.735	Enamel	307	2326	55.60	0.49	1.13
Kiko-1EF-20	2546	0.776	Enamel	301	2316	55.24	0.53	1.28
Kiko-1EF-21	2680	0.817	Enamel	325	2557	55.21	0.49	1.17
Kiko-1EF-22	2814	0.858	Enamel	515	2673	55.04	0.52	1.22
Kiko-1EF-23	2948	0.899	Enamel	990	7205	55.07	0.52	1.23
Kiko-1EF-24	3082	0.940	Enamel	863	2516	54.77	0.70	1.32
Kiko-1EF-25	3216	0.980	Enamel	1523	4325	55.15	0.59	1.40
Kiko-1EF-26	3350	1.021	Dentin	1646	4439	72.74	9.80	0.67
Kiko-1EF-27	3484	1.062	Dentin	1658	4418	63.45	3.86	0.63
Kiko-1EF-28	3618	1.103	Dentin	1735	4570	63.21	0.68	0.79
Kiko-1EF-29	3752	1.144	Dentin	1816	4529	72.07	0.97	0.74
Kiko-1EF-30	3886	1.185	Dentin	1805	4695	71.66	2.06	0.59
cervical								
Kiko-1EF-1	50	0.016	Enamel	1275	4785	55.12	1.18	1.25
Kiko-1EF-2	134	0.043	Enamel	806	3532	55.13	0.95	0.96
Kiko-1EF-3	268	0.085	Enamel	648	2875	54.80	0.74	0.91
Kiko-1EF-4	402	0.128	Enamel	432	2350	54.73	0.43	1.03
Kiko-1EF-5	536	0.170	Enamel	274	2222	55.04	0.32	0.85
Kiko-1EF-6	670	0.213	Enamel	243	2451	54.90	0.41	0.83
Kiko-1EF-7	804	0.255	Enamel	265	2642	55.11	0.40	0.86
Kiko-1EF-8	938	0.298	Enamel	275	2695	54.84	0.42	0.93
Kiko-1EF-9	1072	0.340	Enamel	260	2857	55.47	0.43	0.92

Kiko-1EF-10	1206	0.383	Enamel	279	2980	55.41	0.45	0.95
Kiko-1EF-11	1340	0.425	Enamel	283	3177	54.96	0.43	0.89
Kiko-1EF-12	1474	0.468	Enamel	322	3193	55.19	0.45	0.94
Kiko-1EF-13	1608	0.510	Enamel	335	3246	54.97	0.43	1.06
Kiko-1EF-14	1742	0.553	Enamel	324	3397	55.40	0.44	0.99
Kiko-1EF-15	1876	0.596	Enamel	339	3288	55.70	0.49	1.06
Kiko-1EF-16	2010	0.638	Enamel	356	3461	55.62	0.44	1.03
Kiko-1EF-17	2144	0.681	Enamel	391	3608	55.26	0.48	1.06
Kiko-1EF-18	2278	0.723	Enamel	392	3629	55.08	0.45	1.23
Kiko-1EF-19	2412	0.766	Enamel	435	3962	55.60	0.49	1.13
Kiko-1EF-20	2546	0.808	Enamel	434	4113	55.24	0.53	1.28
Kiko-1EF-21	2680	0.851	Enamel	448	4127	55.21	0.49	1.17
Kiko-1EF-22	2814	0.893	Enamel	478	4134	55.04	0.52	1.22
Kiko-1EF-23	2948	0.936	Enamel	467	4119	55.07	0.52	1.23
Kiko-1EF-24	3082	0.978	Enamel	356	2564	54.77	0.70	1.32
Kiko-1EF-25	3216	1.021	Enamel	1771	6494	55.15	0.59	1.40
Kiko-1EF-26	3350	1.063	Dentin	1516	5423	72.74	9.80	0.67
Kiko-1EF-27	3484	1.106	Dentin	1683	5759	63.45	3.86	0.63
Kiko-1EF-28	3618	1.149	Dentin	1860	6122	63.21	0.68	0.79
Kiko-1EF-29	3752	1.191	Dentin	1693	5756	72.07	0.97	0.74
Kiko-1EF-30	3886	1.234	Dentin	1397	5354	71.66	2.06	0.59
apical								
Kiko-3AB-01	50	0.020	Enamel	567	2141	54.03	0.44	0.86
Kiko-3AB-02	115	0.047	Enamel	285	1934	53.81	0.37	0.84
Kiko-3AB-03	230	0.093	Enamel	241	1896	53.85	0.36	0.95
Kiko-3AB-04	345	0.140	Enamel	221	1814	54.20	0.31	0.79
Kiko-3AB-05	460	0.186	Enamel	196	2000	54.18	0.33	0.92
Kiko-3AB-06	575	0.233	Enamel	192	1932	54.17	0.33	0.87
Kiko-3AB-07	690	0.279	Enamel	182	2313	54.10	0.39	1.09
Kiko-3AB-08	805	0.326	Enamel	208	2391	54.22	0.44	1.04
Kiko-3AB-09	920	0.372	Enamel	225	2497	54.38	0.45	1.02
Kiko-3AB-10	1035	0.419	Enamel	217	2426	54.10	0.47	1.04
Kiko-3AB-11	1150	0.466	Enamel	230	2477	54.54	0.45	1.07
Kiko-3AB-12	1265	0.512	Enamel	249	2563	54.36	0.48	1.09
Kiko-3AB-13	1380	0.559	Enamel	242	2475	54.56	0.47	1.15
Kiko-3AB-14	1495	0.605	Enamel	253	2620	54.93	0.47	1.07
Kiko-3AB-15	1610	0.652	Enamel	244	2504	55.68	0.45	1.05
Kiko-3AB-16	1725	0.698	Enamel	260	2598	54.72	0.47	1.26
Kiko-3AB-17	1840	0.745	Enamel	255	2465	54.18	0.44	1.16
Kiko-3AB-18	1955	0.791	Enamel	285	2619	55.17	0.47	1.28
Kiko-3AB-19	2070	0.838	Enamel	292	2618	54.14	0.48	1.26
Kiko-3AB-20	2185	0.885	Enamel	265	2537	54.17	0.45	1.19
Kiko-3AB-21	2300	0.931	Enamel	321	2950	54.18	0.51	1.40
Kiko-3AB-22	2415	0.978	Enamel	310	2852	54.03	0.53	1.64
Kiko-3AB-23	2530	1.024	Dentin	1472	4980	58.59	1.36	1.17

Kiko-3AB-24	2645	1.071	Dentin	1518	4789	56.36	1.03	1.00
Kiko-3AB-25	2760	1.117	Dentin	1586	4921	56.08	0.96	0.95
Kiko-3AB-26	2875	1.164	Dentin	1598	4880	55.53	1.03	1.17
Kiko-3AB-27	2990	1.211	Dentin	1738	4971	55.23	0.93	1.16
Kiko-3AB-28	3105	1.257	Dentin	1736	5078	55.43	0.96	0.98
Kiko-3AB-29	3220	1.304	Dentin	1940	5162	56.19	1.08	1.20
Kiko-3AB-30	3335	1.350	Dentin	1960	5225	56.19	1.08	1.20
cervical								
Kiko-1AB-01	85	0.025	Enamel	1094	9336	55.77	0.30	0.89
Kiko-1AB-02	173	0.051	Enamel	714	3228	55.74	0.32	0.80
Kiko-1AB-03	346	0.103	Enamel	380	2145	55.75	0.25	0.72
Kiko-1AB-04	519	0.154	Enamel	291	2185	55.53	0.39	0.95
Kiko-1AB-05	692	0.206	Enamel	263	2007	55.51	0.33	0.70
Kiko-1AB-06	865	0.257	Enamel	277	2224	55.59	0.41	0.93
Kiko-1AB-07	1038	0.309	Enamel	293	2512	55.85	0.43	0.98
Kiko-1AB-08	1211	0.360	Enamel	303	2734	55.69	0.39	0.86
Kiko-1AB-09	1384	0.412	Enamel	320	2796	55.33	0.41	0.88
Kiko-1AB-10	1557	0.463	Enamel	322	2871	55.54	0.44	1.03
Kiko-1AB-11	1730	0.515	Enamel	334	2915	55.03	0.41	1.08
Kiko-1AB-12	1903	0.566	Enamel	349	2956	54.56	0.37	0.90
Kiko-1AB-13	2076	0.618	Enamel	377	3107	55.10	0.48	1.21
Kiko-1AB-14	2249	0.669	Enamel	379	3051	54.87	0.52	1.25
Kiko-1AB-15	2422	0.721	Enamel	442	3413	54.75	0.46	1.24
Kiko-1AB-16	2595	0.772	Enamel	501	3580	54.83	0.41	1.33
Kiko-1AB-17	2768	0.824	Enamel	462	3458	55.22	0.45	1.12
Kiko-1AB-18	2941	0.875	Enamel	539	3612	54.86	0.55	1.35
Kiko-1AB-19	3114	0.927	Enamel	516	3615	55.42	0.37	0.83
Kiko-1AB-20	3287	0.978	Enamel	529	3682	55.55	0.39	0.81
Kiko-1AB-21	3460	1.030	dentin	3912	6624	55.55	0.39	0.81
cervical								
Kiko-2AB-01	60	0.023	Enamel	563	2610	55.74	0.32	0.93
Kiko-2AB-02	117	0.044	Enamel	484	2230	55.18	0.39	0.91
Kiko-2AB-03	234	0.089	Enamel	415	2005	55.12	0.40	0.85
Kiko-2AB-04	351	0.133	Enamel	298	2285	55.78	0.44	0.82
Kiko-2AB-05	468	0.177	Enamel	299	2518	55.67	0.42	0.95
Kiko-2AB-06	585	0.222	Enamel	332	2791	55.00	0.45	0.98
Kiko-2AB-07	702	0.266	Enamel	325	2824	55.00	0.48	1.10
Kiko-2AB-08	819	0.310	Enamel	334	2967	55.44	0.45	1.09
Kiko-2AB-09	936	0.355	Enamel	341	3017	54.92	0.48	1.06
Kiko-2AB-10	1053	0.399	Enamel	354	3171	54.94	0.48	1.17
Kiko-2AB-11	1170	0.443	Enamel	358	3118	54.97	0.45	1.15
Kiko-2AB-12	1287	0.488	Enamel	363	3269	55.34	0.50	1.29
Kiko-2AB-13	1404	0.532	Enamel	355	3182	54.81	0.54	1.24
Kiko-2AB-14	1521	0.576	Enamel	387	3322	54.67	0.58	1.36
Kiko-2AB-15	1638	0.620	Enamel	397	3413	54.64	0.52	1.39

Kiko-2AB-16	1755	0.665	Enamel	440	3568	54.69	0.59	1.39
Kiko-2AB-17	1872	0.709	Enamel	428	3426	57.35	0.60	1.36
Kiko-2AB-18	1989	0.753	Enamel	472	3542	54.74	0.58	1.53
Kiko-2AB-19	2106	0.798	Enamel	500	3603	54.68	0.61	1.42
Kiko-2AB-20	2223	0.842	Enamel	552	3563	54.90	0.54	1.47
Kiko-2AB-21	2340	0.886	Enamel	550	3560	54.82	0.71	1.62
Kiko-2AB-22	2457	0.931	Enamel	608	3681	56.16	0.52	1.16
Kiko-2AB-23	2574	0.975	Enamel	585	3829	56.50	0.46	0.93
Kiko-2AB-24	2691	1.019	Dentin	1320	6461	56.44	0.49	1.12
Kiko-2AB-25	2808	1.064	Dentin	1293	6368	56.62	0.45	1.47
Kiko-2AB-26	2925	1.108	Dentin	1286	6354	55.99	0.41	1.50
Kiko-2AB-27	3042	1.152	Dentin	1310	6455	55.11	0.39	1.39
Kiko-2AB-28	3159	1.197	Dentin	1282	6250	54.47	0.41	1.18
Kiko-2AB-29	3276	1.241	Dentin	1190	5311	54.47	0.41	1.18
Kiko-2AB-30	3393	1.285	Dentin			54.47	0.41	1.18
cervical								
Kiko-1CD-01	50	0.028	Enamel	695	3136	55.36	0.30	0.78
Kiko-1CD-02	92	0.051	Enamel	557	2944	55.42	0.33	0.82
Kiko-1CD-03	184	0.102	Enamel	360	2364	55.84	0.27	0.87
Kiko-1CD-04	276	0.153	Enamel	305	2252	55.49	0.34	0.88
Kiko-1CD-05	368	0.204	Enamel	273	2056	55.32	0.39	0.84
Kiko-1CD-06	460	0.256	Enamel	272	1929	55.28	0.30	0.75
Kiko-1CD-07	552	0.307	Enamel	275	1987	54.92	0.35	0.75
Kiko-1CD-08	644	0.358	Enamel	265	2222	55.33	0.37	0.85
Kiko-1CD-09	736	0.409	Enamel	268	2346	54.82	0.34	0.71
Kiko-1CD-10	828	0.460	Enamel	283	2179	55.45	0.39	0.72
Kiko-1CD-11	920	0.511	Enamel	283	2251	54.97	0.43	0.85
Kiko-1CD-12	1012	0.562	Enamel	295	2489	54.59	0.35	0.83
Kiko-1CD-13	1104	0.613	Enamel	275	2488	55.03	0.40	0.76
Kiko-1CD-14	1196	0.664	Enamel	292	2636	55.20	0.41	1.01
Kiko-1CD-15	1288	0.716	Enamel	305	2724	55.59	0.45	0.98
Kiko-1CD-16	1380	0.767	Enamel	309	2778	55.21	0.45	0.93
Kiko-1CD-17	1472	0.818	Enamel	320	2869	55.31	0.37	0.97
Kiko-1CD-18	1564	0.869	Enamel	340	3024	55.69	0.48	0.96
Kiko-1CD-19	1656	0.920	Enamel	318	2899	54.92	0.32	0.90
Kiko-1CD-20	1748	0.971	Enamel	321	2933	55.58	0.28	0.92