

Isotopic ratios										Uncorrected Ages (Ma)						²⁰⁷ Pb Corrected		208Pb Corrected Ages (Ma)						Best Age		Discord %	
Grain No.	U (ppm)	Th/U	206/ 238	207/ 235 1σ%	207/ 235 1σ%	207/ 206 1σ %	% common lead	206/ 238	2σ	207/ 235	2σ	207/ 206	2σ	206/ 238	2σ	206/ 238	2σ	207/ 235	2σ	207/ 206	2σ	207/ 206	2σ	Best Age	2σ	Discord %	
G1	451	0.43	0.01341	1.0	0.09672	1.3	0.0522	1.3	1.38	85.9	2.7	93.7	3.2	294.2	28.9	85.4	2.3	73.2	6.0	-287.0	171.0	85.9	2.7	8.4			
G2	3384	1.36	0.02246	0.9	0.17364	0.7	0.05529	0.7	3.07	143.2	3.3	162.6	2.7	424.0	15.5	142.0	2.4	158.1	2.7	88.6	26.2	-1124.2	872.5	143.2	3.3	11.9	
G3	565	0.35	0.00426	0.9	0.0583	1.5	0.09657	1.5	6.02	27.4	2.2	57.5	3.1	1558.9	28.2	25.7	2.1	21.7	2.1	28.2	2.9	229.1	103.7	25.7	2.1	22.9	
G4	968	0.33	0.0122	0.9	0.09557	1.2	0.05676	1.2	1.22	78.2	2.5	92.7	4.7	482.2	25.8	77.3	2.2	76.5	2.2	76.2	4.9	45.4	96.4	77.3	2.2	-0.4	
G5	574	0.49	0.02695	0.9	0.20884	1.0	0.05571	0.9	1.54	171.4	3.7	192.6	7.2	440.8	20.1	170.1	2.6	168.0	2.7	149.0	14.8	-155.7	226.3	171.4	3.7	11.0	
G6	224	0.54	0.01453	1.1	0.1501	2.3	0.07528	2.1	4.45	93.0	2.9	142.0	4.1	1076.0	41.7	89.8	2.3	79.3	2.4	75.5	6.6	-335.1	188.9	89.8	2.3	-5.1	
G7	960	0.41	0.0258	0.9	0.20896	0.8	0.05753	0.8	1.50	164.2	3.6	192.7	4.1	511.9	17.3	162.5	2.5	160.0	2.6	149.8	8.5	-36.6	115.6	162.5	2.5	-6.8	
G8	1254	0.54	0.02741	0.9	0.19255	0.9	0.05031	0.8	1.06	174.3	3.8	178.8	14.7	209.3	19.5	174.2	2.6	175.9	2.7	147.0	13.2	-247.4	170.2	174.3	3.8	2.5	
G9	3005	0.15	0.07536	0.9	0.12124	0.6	0.11526	0.6	2.05	468.4	8.8	806.2	3.5	1884.0	10.7	433.7	4.3	438.8	4.6	710.2	13.1	1613.9	20.8	433.7	4.3	38.2	
G10	1562	0.30	0.02568	0.9	0.17799	0.8	0.04979	0.7	0.72	163.5	3.6	166.3	3.0	185.2	17.4	163.4	2.6	163.0	2.6	145.6	6.9	-117.7	100.7	163.5	3.6	1.7	
G11	774	0.23	0.01326	0.9	0.08907	1.2	0.04893	1.2	0.62	84.9	2.6	86.6	4.7	144.5	27.4	84.8	2.2	84.5	2.2	77.9	12.3	-118.4	371.8	84.9	2.6	2.0	
G12	242	0.43	0.00483	1.2	0.12869	1.6	0.19384	1.6	17.27	31.1	2.2	122.9	4.9	2775.0	27.1	25.3	2.1	11.9	2.1	44.7	4.7	1177.2	80.8	25.3	2.1	73.4	
G13	370	0.36	0.02061	1.0	0.13897	1.6	0.05018	1.4	0.84	131.5	3.3	132.1	9.3	203.3	33.4	131.3	2.5	131.3	2.5	116.9	8.5	-149.2	153.8	131.5	3.3	0.5	
G14	437	0.44	0.02728	1.0	0.36381	1.2	0.0981	1.0	4.91	173.5	4.0	315.1	3.5	1588.3	19.5	162.9	2.6	144.7	2.8	199.2	10.3	619.3	92.9	162.9	2.6	27.3	
G15	2369	0.89	0.02469	0.9	0.17513	0.8	0.05098	0.8	1.15	157.2	3.5	163.9	39.9	239.9	17.8	156.9	2.5	168.1	2.7	133.1	27.5	-250.1	298.6	157.2	3.5	4.0	
G16	798	0.18	0.20657	0.9	2.56732	0.8	0.08904	0.6	0.54	1210.5	23.5	1291.4	57.5	1405.0	12.0	1197.3	10.5	1201.8	10.2	1240.3	62.4	1302.8	32.0	1302.8	32.0	3.1	
G17	1114	0.23	0.24105	0.9	2.96405	1.0	0.08759	0.7	0.21	1392.2	27.6	1398.5	16.4	1373.5	12.7	1393.7	12.3	1403.7	11.7	1367.1	111.6	1332.2	78.9	1373.5	12.7	0.5	
G18	353	0.63	0.03024	1.0	0.6442	1.3	0.15433	1.0	13.70	192.1	4.3	504.9	2.7	2394.5	16.7	166.7	2.7	86.3	3.0	193.7	15.6	504.3	159.1	166.7	2.7	55.5	
G19	1498	0.41	0.0132	0.9	0.08803	1.0	0.04845	0.9	0.54	84.5	2.6	85.7	7.4	121.3	22.5	84.5	2.2	85.9	2.3	77.9	6.3	-108.8	156.7	84.5	2.6	1.3	
G20	326	0.85	0.02549	0.9	2.9056	1.2	0.0831	1.0	6.18	162.3	3.7	259.0	53.1	1271.6	20.5	155.3	2.6	122.8	2.8	110.8	26.7	-722.9	399.1	155.3	2.6	-10.8	
G22	522	0.44	0.24663	0.9	3.07633	0.9	0.09026	0.6	0.43	1421.1	28.3	1426.8	3.1	1431.0	12.0	1420.2	12.5	1446.8	12.2	1389.3	73.3	1349.2	49.3	1431.0	12.0	0.4	
G21	2304	0.00	0.02045	0.9	0.14805	0.7	0.05175	0.7	0.39	130.5	3.1	140.2	131.4	274.4	17.0	130.0	2.4	128.8	2.4	129.8	48.5	126.4	80.5	130.0	2.4	0.8	
G23	355	0.30	0.4119	0.9	7.70372	0.9	0.13471	0.6	0.28	2223.6	46.9	2197.0	3.9	2160.3	10.7	2240.9	21.9	2244.9	17.4	2171.6	113.2	2127.7	27.6	2160.3	10.7	-1.2	
G24	1343	0.70	0.02018	0.9	0.16114	1.0	0.05738	0.9	4.51	128.8	3.1	151.7	3.1	506.2	20.8	127.4	2.4	109.7	2.5	55.3	11.0	#NUM!	#NUM!	128.8	3.1	15.1	
G25	939	0.42	0.01266	0.9	0.09881	1.1	0.05661	1.1	1.77	81.1	2.6	95.7	6.6	476.4	23.9	80.2	2.2	78.3	2.3	71.2	5.8	-204.4	149.7	80.2	2.2	-9.9	
G26	606	0.57	0.02811	1.0	0.2154	1.4	0.05527	1.2	0.52	178.7	4.1	198.1	7.8	423.2	27.9	177.4	2.7	185.7	2.8	182.3	13.9	241.2	153.6	177.4	2.7	-1.9	
G27	162	1.06	0.02758	1.0	0.20426	1.8	0.05504	1.6	1.05	175.4	4.1	188.7	4.3	413.8	35.8	174.2	2.7	199.3	2.9	163.7	23.2	22.5	312.3	175.4	4.1	7.1	
G28	1219	0.71	0.02643	0.9	0.18908	1.0	0.0513	0.9	0.13	168.2	3.7	175.8	3.7	254.3	20.7	167.8	2.6	182.5	2.7	170.5	13.8	206.3	166.1	168.2	3.7	4.4	
G29	2070	1.05	0.02639	0.9	0.19856	0.8	0.05369	0.7	0.72	167.9	3.7	183.9	3.6	358.1	16.5	167.0	2.6	194.9	2.8	161.9	22.4	91.1	301.7	167.9	3.7	8.7	
G30	2177	0.50	0.02512	0.9	0.17752	0.8	0.05048	0.8	-0.01	159.9	3.6	165.9	2.5	217.2	18.0	159.7	2.6	168.4	2.6	163.8	12.5	219.8	160.6	159.7	2.6	-2.8	
G31	1906	0.83	0.0039	1.0	0.04212	1.6	0.0783	1.6	1.97	25.1	2.2	41.9	44.5	1154.5	32.5	24.1	2.1	25.1	2.1	33.1	33.4	705.4	152.4	24.1	2.1	24.1	
G32	648	0.41	0.20961	0.9	2.63919	0.8	0.08847	0.6	1.16	1226.7	24.2	1311.6	6.4	1392.7	12.3	1215.3	10.8	1210.7	10.8	1194.7	62.6	1160.3	55.8	1160.3	55.8	-1.3	
G33	887	0.25	0.03806	0.9	0.31636	0.9	0.05964	0.8	2.37	240.8	4.9	279.1	3.3	590.5	17.9	238.2	3.0	223.9	3.0	191.1	9.8	-325.5	115.8	240.8	4.9	13.7	
G34	834	0.33	0.01387	0.9	0.1133	1.1	0.05903	1.1	1.33	88.8	2.7	109.0	5.9	568.2	23.3	87.5	2.3	86.7	2.3	88.7	6.7	117.5	155.2	87.5	2.3	2.3	
G35	463	0.43	0.01365	1.1	0.11729	2.3	0.06255	2.2	1.25	87.4	2.9	112.6	45.3	693.0	46.1	85.8	2.3	86.4	2.3	94.7	24.7	310.2	102.8	85.8	2.3	8.7	
G36	715	0.30	0.18604	0.9	2.27119	1.0	0.08841	0.7	0.88	1099.9	21.6	1203.4	2.3	1391.4	13.2	1082.7	9.7	1088.7	9.7	1135.3	57.7	1221.0	55.8	1221.0	55.8	4.1	
G37	1708	0.77	0.00381	1.0	0.02591	1.5	0.04895	1.6	0.22	24.5	2.2	26.0	54.8	145.4	37.0	24.4	2.1	26.8	2.1	24.8	27.1	59.0	206.9	24.5	2.2	5.6	
G38	1302	0.34	0.22181	0.9	2.75401	1.0	0.08832	0.7	0.07	1291.4	25.7	1343.2	4.0	1389.5	13.0	1284.1	11.4	1321.8	11.2	1322.9	104.0	1375.5	77.4	1375.5	77.4	0.1	
G39	667	2.16	0.01624	0.9	0.13518	1.2	0.06094	1.1	0.90	103.8	2.9	128.7	4.4	637.1	24.8	102.2	2.3	62.3	2.6	114.3	43.2	359.1	815.5	103.8	2.9	19.3	
G40	993	0.74	0.0259	0.9	0.18836	1.0	0.05219	0.9	-0.06	164.8	3.7	175.2	5.1	293.7	21.1	164.2	2.6	181.8	2.7	175.1	14.7	314.4	169.3	164.2	2.6	-3.8	
G41	562	0.59	0.02598	0.9	0.19939	1.1	0.05563	1.0	1.02	165.3	3.7	184.6	4.4	437.6	22.9	164.0	2.6	168.4	2.7	157.6	13.2	66.4	177.7	164.0	2.6	-6.9	
G42	1102	1.71	0.02509	0.9	0.21447	0.9	0.06161	0.8	3.68	159.7	3.6	197.3	4.1	660.6	17.5	157.3	2.5	132.4	6.6	93.3	38.1	#NUM!	#NUM!	159.7	3.6	19.0	
G43	2713	1.16	0.02443	0.9	0.18202	0.9	0.05328	0.9	-0.25	155.6	3.5	169.8	2.4	340.7	19.7	154.8	2.5	207.3	2.7	174.0	24.0	426.2	283.8	155.6	3.5	8.4	
G44	853	0.57	0.00395	1.0	0.03416	1.7	0.06294	1.7	1.73	25.4	2.2	34.1	38.1	706.2	36.9	24.9	2.1	24.9	2.1	26.4	22.3	157.2	148.1	24.9	2.1	5.5	
G45	713	0.21	0.18035	0.9	2.26437	0.8	0.09011	0.6	0.76	1068.9	21.0	1201.3	4.5	1427.9	12.5	1048.3	9.4	1055.2	9.4	1137.4	43.7	1285.5	41.2	1285.5	41.2	7.2	
G46	902	0.78	0.02542	0.9	0.20217	1.0	0.0571	0.9	1.64	161.8	3.6	187.0	60.8	495.4	19.4	160.2	2.5	164.2	2.7	142.8	31.9	-122.9	245.5	161.8	3.6	13.4	
G47	295	0.23	0.25244	0.9	3.06134	1.0	0.																				

G69	554	0.41	0.24719	0.9	3.14657	0.9	0.09006	0.7	0.16	1424.0	28.9	1444.2	37.4	1426.8	13.1	1423.7	12.8	1462.0	12.4	1412.0	84.6	1397.0	48.9	1426.8	13.1	1.4
G70	1137	0.27	0.18265	0.9	2.25149	0.8	0.08808	0.7	0.16	1081.4	21.3	1197.3	5.3	1384.2	13.0	1064.1	9.6	1097.9	9.6	1175.2	56.2	1355.3	50.2	1355.3	50.2	6.6
G71	348	0.33	0.01808	1.0	0.13042	1.8	0.05371	1.7	0.85	115.5	3.1	124.5	4.7	358.9	37.9	114.7	2.4	115.0	2.4	111.2	7.5	40.8	142.0	114.7	2.4	-3.4
G72	241	0.37	0.01312	1.1	0.09242	2.3	0.05124	2.1	0.70	84.0	2.8	89.8	76.9	251.6	49.4	83.7	2.3	84.5	2.3	79.9	28.0	-24.9	123.7	83.7	2.3	-5.8
G73	1093	0.02	0.23956	0.9	3.32605	1.2	0.09836	0.7	0.04	1384.4	28.3	1487.2	3.1	1593.3	13.8	1365.9	12.4	1384.6	11.6	1465.8	39.0	1586.5	22.6	1586.5	22.6	5.5
G74	3360	0.13	0.01334	0.9	0.13345	0.8	0.07188	0.8	2.30	85.4	2.6	127.2	2.7	982.5	16.0	82.8	2.2	79.2	2.2	93.7	6.5	360.2	140.2	82.8	2.2	15.5
G75	872	0.75	0.00421	1.0	0.05677	1.5	0.09681	1.5	4.96	27.1	2.2	56.1	39.1	1563.5	28.7	25.4	2.1	22.4	2.1	32.6	26.7	570.2	171.0	25.4	2.1	31.4
G76	719	0.32	0.1791	0.9	2.17908	0.9	0.08709	0.7	0.29	1062.1	21.1	1174.4	5.8	1362.5	13.4	1045.4	9.5	1077.2	9.6	1143.5	61.4	1307.0	58.0	1307.0	58.0	5.8
G77	271	0.24	0.01861	1.1	0.12925	2.1	0.0511	1.9	0.84	118.9	3.3	123.4	4.0	245.3	44.2	118.5	2.5	117.4	2.5	108.4	5.4	-94.7	83.4	118.9	3.3	3.7
G78	2314	0.41	0.02724	0.9	0.19251	0.9	0.05075	0.8	-0.11	173.3	3.8	178.8	21.7	229.5	18.3	173.0	2.6	181.1	2.7	180.3	19.3	270.9	217.8	173.0	2.6	-0.5
G79	77	0.28	0.0289	1.1	0.50054	2.2	0.13576	1.7	10.60	183.7	4.7	412.1	2.9	2173.8	28.9	163.7	2.8	117.0	3.1	194.3	8.0	549.7	76.3	163.7	2.8	39.8
G80	1989	0.42	0.0136	1.0	0.10031	1.0	0.05267	0.9	0.02	87.1	2.7	97.1	52.6	314.6	20.4	86.5	2.3	90.7	2.3	95.4	32.1	309.0	103.1	86.5	2.3	5.0
G81	909	0.30	0.23794	0.9	2.95944	0.9	0.08792	0.7	-0.10	1376.0	28.0	1397.3	82.7	1380.7	13.5	1375.6	12.4	1412.8	11.9	1386.0	92.0	1399.6	44.0	1380.7	13.5	1.5
G82	439	0.34	0.2993	0.9	4.36315	1.0	0.1064	0.7	0.24	1687.8	35.2	1705.4	46.9	1738.6	12.9	1681.2	15.5	1715.4	14.3	1692.1	97.5	1701.9	39.9	1738.6	12.9	1.0
G83	785	0.33	0.14742	0.9	2.17773	1.1	0.10388	0.8	1.25	886.5	17.6	1174.0	72.7	1694.6	14.0	846.9	7.9	866.8	8.3	1074.8	72.0	1503.2	42.2	846.9	7.9	19.4
G84	416	0.32	0.25579	0.9	3.1593	1.2	0.0892	0.7	-0.07	1468.3	30.3	1447.3	3.4	1408.5	14.3	1473.8	13.5	1507.7	12.7	1450.0	68.1	1422.0	41.8	1408.5	14.3	-1.5
G85	5599	1.10	0.02105	0.9	0.16342	0.8	0.05484	0.7	-5.14	134.3	3.2	153.7	50.1	405.7	16.5	133.3	2.4	234.9	2.6	263.4	64.7	1563.1	120.9	133.3	2.4	10.8
G86	710	0.28	0.22292	0.9	2.76005	0.9	0.08841	0.7	-0.02	1297.3	26.3	1344.8	48.5	1391.4	13.6	1290.2	11.7	1326.3	11.4	1334.8	74.7	1395.2	45.5	1395.2	45.5	0.6
G87	2203	0.35	0.18195	0.9	3.0261	0.8	0.11803	0.7	1.23	1077.6	21.5	1414.2	5.0	1926.6	12.5	1019.0	9.3	1055.4	9.8	1322.0	55.5	1766.0	38.0	1766.0	38.0	20.2
G88	697	0.86	0.02657	0.9	0.18534	1.2	0.05051	1.1	-1.22	169.0	3.8	172.6	49.2	218.5	24.8	168.8	2.6	205.6	2.8	205.6	41.0	622.0	179.4	168.8	2.6	0.0
G89	1077	0.17	0.22445	0.9	2.76358	0.9	0.08781	0.7	-0.07	1305.3	26.5	1345.8	4.7	1378.3	13.7	1299.8	11.8	1324.3	11.2	1338.7	60.8	1391.1	43.0	1391.1	43.0	1.1
G90	978	1.26	0.02734	1.0	0.19191	1.1	0.05056	0.9	-1.51	173.9	4.0	178.3	5.4	220.8	22.1	173.7	2.7	278.2	3.0	219.5	31.9	709.5	278.0	173.9	4.0	2.5
G92	3878	0.11	0.02301	0.9	0.27317	0.9	0.08389	0.8	1.23	146.7	3.4	245.2	16.5	1290.0	15.2	140.2	2.5	141.4	2.5	212.4	12.4	1048.1	91.7	140.2	2.5	33.4
G91	284	0.52	0.03014	1.0	0.64651	1.3	0.15623	1.0	10.98	191.4	4.3	506.3	5.7	2415.3	16.8	165.7	2.7	112.1	3.0	261.8	15.0	1161.1	92.3	165.7	2.7	57.2
G93	491	0.73	0.02841	1.0	0.19832	1.3	0.05065	1.1	-0.76	180.6	4.1	183.7	5.6	224.9	26.6	180.4	2.7	206.1	2.8	205.6	16.9	486.2	159.4	180.4	2.7	-0.2
G94	691	1.04	0.02468	1.0	0.18528	1.4	0.05373	1.2	-0.78	157.2	3.7	172.6	45.6	359.7	27.4	156.3	2.6	200.8	2.8	190.1	32.5	605.5	336.3	156.3	2.6	-5.6
G96	360	1.11	0.01649	1.0	0.11724	1.6	0.05204	1.5	-1.36	105.4	2.9	112.6	70.2	287.2	34.3	104.9	2.3	147.1	2.5	137.9	46.0	711.5	231.5	105.4	2.9	6.3
G97	277	0.43	0.24087	0.9	2.97387	1.2	0.0902	0.8	-0.52	1391.2	28.8	1401.0	4.8	1429.8	15.0	1388.0	12.8	1471.3	12.4	1448.4	91.6	1523.6	56.1	1429.8	15.0	0.7
G98	1027	1.52	0.02716	0.9	0.2034	1.0	0.05385	0.9	-1.99	172.7	3.8	188.0	4.6	364.8	20.6	171.8	2.6	544.7	3.6	242.3	37.8	944.2	284.4	172.7	3.8	8.1
G99	920	1.21	0.02685	0.9	0.1895	1.1	0.05113	0.9	-1.73	170.8	3.8	176.2	9.3	246.7	21.7	170.4	2.6	265.3	2.9	223.5	31.9	786.3	267.5	170.8	3.8	3.1
G100	250	0.39	0.02418	1.2	0.16224	2.7	0.04996	2.4	-0.37	154.0	4.2	152.7	50.9	193.1	56.8	153.9	2.8	162.2	2.8	165.6	29.2	326.3	101.7	154.0	4.2	-0.9
G101	663	0.57	0.20447	0.9	2.54521	1.0	0.08969	0.7	-0.47	1199.3	24.4	1285.1	16.4	1418.9	14.4	1184.5	10.9	1290.6	11.1	1316.0	111.9	1502.7	82.8	1502.7	82.8	1.9
G102	270	0.82	0.03025	1.0	0.60097	1.3	0.14438	1.0	8.65	192.1	4.4	477.8	67.3	2280.4	18.0	169.2	2.7	120.1	3.1	278.3	53.0	1248.7	136.6	169.2	2.7	56.9
G103	250	0.35	0.23785	0.9	2.92131	1.2	0.08991	0.8	0.09	1375.5	28.5	1387.4	3.5	1423.6	15.0	1371.5	12.7	1407.8	12.2	1387.6	83.2	1407.8	56.0	1423.6	15.0	0.9
G104	665	1.17	0.01267	1.0	0.09377	1.5	0.054	1.4	-1.72	81.2	2.7	91.0	2.6	371.0	30.9	80.5	2.3	121.5	2.3	115.8	12.9	867.3	216.5	80.5	2.3	-4.9
G105	627	1.31	0.00391	1.0	0.03432	2.1	0.06372	2.1	0.16	25.2	2.2	34.3	5.2	732.3	44.6	24.6	2.1	38.7	2.1	33.6	6.1	690.4	310.0	24.6	2.1	-15.2
G106	361	0.56	0.01404	1.0	0.14484	1.6	0.07363	1.5	1.68	89.9	2.8	137.3	59.1	1031.3	30.0	86.9	2.3	88.2	2.3	110.5	38.8	617.5	120.8	86.9	2.3	20.2
G107	891	0.23	0.24737	0.9	3.15209	0.9	0.08985	0.7	-0.17	1424.9	29.5	1445.5	4.0	1422.3	14.2	1425.1	13.1	1456.7	12.3	1437.5	68.4	1453.1	42.5	1453.1	42.5	-1.3
G108	554	0.67	0.01433	1.0	0.11119	1.5	0.0561	1.4	-0.89	91.7	2.8	107.7	6.0	456.3	30.5	90.8	2.3	103.8	2.3	120.6	9.2	716.9	129.2	90.8	2.3	13.9
G109	447	0.77	0.0257	1.0	0.20048	1.4	0.0566	1.2	-0.24	163.6	3.8	185.5	4.8	476.0	26.3	162.1	2.6	183.7	2.8	191.9	18.1	551.2	184.9	162.1	2.6	4.3
G110	364	0.29	0.01598	1.1	0.10653	2.0	0.04929	1.8	-0.08	102.2	3.0	102.8	68.5	161.6	42.8	102.0	2.4	105.2	2.4	106.1	30.1	192.9	96.2	102.2	3.0	0.6
G111	369	0.45	0.22948	0.9	2.86947	1.2	0.08982	0.8	0.33	1331.8	27.6	1373.9	3.0	1421.7	15.5	1324.7	12.3	1363.4	12.1	1340.3	134.5	1360.2	99.5	1360.2	99.5	-1.7

Appendix 3.1 (continued). U-Pb ages of detrital zircons from the Topanga Formation (OT11), as determined by LA-ICP-MS.