

Isotopic ratios										Uncorrected Ages (Ma)					²⁰⁷ Pb Corrected		208Pb Corrected Ages (Ma)					Best Age		Discord		
Grain No.	U (ppm)	Th/U	206/238	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	2σ	%	
G1	215	0.36	0.11022	0.9	1.01564	1.5	0.06914	1.0	1.98	674.0	12.8	711.7	30.8	902.9	19.8	668.0	6.3	634.0	6.5	588.5	50.2	315.8	99.5	674.0	12.8	5.3
G2	505	0.38	0.30431	0.8	4.48385	0.9	0.10669	0.6	0.79	1712.6	33.3	1728.0	81.8	1743.6	11.4	1708.5	14.7	1694.1	13.7	1664.6	99.2	1619.1	42.9	1743.6	11.4	0.9
G3	283	0.22	0.15692	0.9	1.5434	1.2	0.07023	0.8	0.72	939.6	17.7	947.9	38.5	935.1	15.9	939.8	8.3	925.3	8.2	878.9	47.2	744.2	58.4	939.6	17.7	0.9
G4	173	0.46	0.18572	0.9	1.89859	1.5	0.07639	0.8	1.07	1098.1	21.0	1080.6	54.6	1105.3	16.1	1097.8	9.6	1080.2	9.8	1009.5	69.1	844.0	85.0	1105.3	16.1	-1.6
G5	573	0.40	0.06578	0.9	0.48998	1.0	0.05463	0.8	0.85	410.7	7.7	404.9	10.3	397.1	18.6	410.9	4.2	407.0	4.4	361.5	80.7	77.1	196.9	410.7	7.7	-1.4
G6	352	0.12	0.66673	0.9	28.83901	1.0	0.3087	0.6	0.28	3293.2	72.7	3448.1	475.2	3514.4	9.3	2844.5	38.5	3274.8	22.4	3422.1	155.6	3502.7	6.4	3502.7	6.4	4.3
G7	376	0.01	0.17138	0.9	1.74834	1.1	0.07329	0.7	0.04	1019.7	19.2	1026.5	39.2	1022.0	14.5	1019.6	8.9	1018.7	8.5	1017.4	53.9	1013.1	41.8	1013.1	41.8	-0.1
G8	306	0.52	0.23372	0.9	2.79912	1.5	0.08736	0.8	0.72	1354.0	26.5	1355.3	83.5	1368.4	14.9	1352.8	11.8	1357.6	11.8	1299.3	115.6	1224.2	77.3	1368.4	14.9	0.1
G9	100	0.59	0.32178	0.9	4.38645	1.8	0.10608	0.8	1.59	1798.4	36.6	1709.8	145.2	1733.1	14.0	1808.0	16.3	1735.4	15.4	1638.2	151.7	1468.3	73.3	1733.1	14.0	-5.2
G10	159	0.36	0.19053	0.9	2.1658	1.7	0.08387	0.9	2.35	1124.2	22.0	1170.1	72.0	1289.5	16.9	1114.5	10.0	1041.0	10.1	987.1	95.3	742.6	88.3	1289.5	16.9	3.9
G11	415	0.37	0.47309	0.9	10.5469	1.1	0.16182	0.6	0.46	2497.1	52.1	2484.1	208.3	2474.8	10.4	2506.6	26.0	2497.3	18.7	2456.7	146.4	2431.2	25.0	2474.8	10.4	-0.5
G12	260	0.34	0.0938	0.9	0.76122	1.7	0.05821	1.1	0.62	578.0	11.2	574.7	25.9	537.7	24.5	578.8	5.6	575.8	5.8	527.9	42.6	330.6	96.3	578.0	11.2	-0.6
G13	1456	0.64	0.2521	0.9	0.41592	0.7	0.11363	0.6	1.54	1449.3	27.8	1637.4	56.7	1858.3	10.9	1406.5	12.0	1408.2	12.5	1514.3	130.8	1635.0	73.5	1635.0	73.5	7.0
G14	282	0.25	0.07112	0.9	0.55211	1.6	0.05775	1.1	0.47	442.9	8.7	446.4	17.4	520.3	24.8	441.8	4.6	441.4	4.7	428.7	18.7	363.6	70.7	442.9	8.7	0.8
G15	824	0.02	0.06332	0.9	0.47649	1.2	0.05459	0.9	0.08	395.8	7.6	395.7	11.4	395.5	20.7	395.8	4.2	395.1	4.1	391.7	15.1	369.7	60.9	395.8	7.6	0.0
G16	308	0.30	0.05482	0.9	0.39476	1.7	0.05307	1.3	0.92	344.0	7.0	337.8	13.8	331.8	29.6	344.2	3.9	337.9	4.0	297.5	19.9	-30.9	110.0	344.0	7.0	-1.8
G17	258	0.35	0.10873	0.9	0.9016	1.5	0.0613	1.0	0.78	665.4	12.7	652.6	27.1	649.8	20.8	665.7	6.3	659.2	6.4	605.3	51.1	403.7	93.8	665.4	12.7	-2.0
G18	495	0.39	0.296	0.9	4.16342	1.2	0.10244	0.7	0.38	1671.4	33.0	1666.9	93.6	1668.8	12.3	1671.8	14.6	1682.6	13.6	1639.8	112.8	1606.6	62.3	1668.8	12.3	-0.3
G19	183	0.37	0.25544	0.9	3.08208	1.6	0.09085	0.8	0.87	1466.5	29.2	1428.2	95.0	1443.5	14.9	1468.6	13.0	1445.7	12.5	1383.7	107.9	1275.1	46.3	1443.5	14.9	-0.7
G20	126	0.85	0.30544	0.9	4.08061	1.9	0.10271	0.8	1.28	1718.2	35.3	1650.4	146.9	1673.7	15.1	1724.1	15.7	1718.0	15.5	1593.2	206.5	1455.5	107.5	1673.7	15.1	-4.1
G21	262	0.37	0.29834	0.9	4.32317	1.6	0.10462	0.7	0.47	1683.1	34.0	1697.8	134.9	1707.6	13.7	1679.9	15.0	1686.6	14.0	1657.1	142.5	1633.2	59.2	1707.6	13.7	0.9
G22	74	1.05	0.27081	1.0	3.12697	3.1	0.09617	1.2	2.03	1544.9	34.4	1439.3	178.3	1551.1	22.4	1544.3	15.3	1506.7	16.3	1374.4	239.4	1158.5	182.0	1551.1	22.4	-7.3
G23	268	0.28	0.17535	0.9	1.7539	1.6	0.07232	0.9	0.70	1041.5	20.3	1028.6	54.4	995.0	17.6	1043.7	9.4	1029.8	9.3	967.1	52.3	816.1	59.2	995.0	17.6	-1.3
G24	289	0.27	0.1718	0.9	1.68535	1.2	0.07302	0.8	0.69	1022.0	19.6	1003.0	40.4	1014.5	15.4	1022.4	9.0	1010.3	9.0	962.3	55.0	842.3	69.4	1014.5	15.4	-1.9
G25	171	0.45	0.10185	1.0	0.84929	2.2	0.06052	1.3	0.72	625.2	12.7	624.3	36.7	622.2	29.0	625.3	6.3	597.8	6.6	500.8	49.2	7.1	163.6	625.2	12.7	-0.2
G26	79	0.28	0.2103	1.0	1.9946	2.4	0.07836	1.1	1.31	1180.9	24.7	1113.7	93.3	1156.0	22.7	1182.3	11.2	1058.7	11.0	1058.7	75.9	841.7	86.1	1156.0	22.7	-6.0
G27	164	0.65	0.09676	0.9	1.55206	1.3	0.11997	0.8	8.64	595.4	11.4	591.3	41.5	1955.8	14.9	550.3	5.4	377.2	6.5	518.3	60.5	380.9	201.6	550.3	5.4	27.2
G28	145	0.40	0.10055	1.0	0.81618	2.5	0.05983	1.6	1.44	617.6	13.1	605.9	41.4	597.4	33.7	618.1	6.5	596.2	6.7	510.5	48.1	89.2	149.6	617.6	13.1	-1.9
G29	43	0.54	0.19796	1.0	1.85063	2.8	0.07615	1.3	2.32	1164.4	25.1	1063.7	98.6	1099.0	25.9	1168.1	11.4	1085.1	11.8	931.0	92.4	463.7	135.4	1099.0	25.9	-9.5
G30	291	0.46	0.18465	0.9	1.90829	1.6	0.07459	0.9	0.26	1092.3	21.5	1084.0	62.0	1057.5	17.7	1094.1	9.8	1113.8	9.9	1058.6	90.7	995.2	92.4	1057.5	17.7	-0.8
G31	31	0.25	0.20625	1.0	1.695	3.0	0.07283	1.4	1.37	1208.8	27.0	1006.6	97.9	1009.2	29.1	1220.7	12.3	1161.9	12.0	1012.0	60.4	636.6	77.0	636.6	77.0	-14.8
G32	485	0.60	0.02786	0.9	0.19241	1.5	0.05058	1.3	0.74	177.1	4.1	178.7	6.3	221.07	30.3	176.9	2.9	179.7	3.0	159.2	41.2	-82.1	217.4	177.1	4.1	0.9
G33	49	0.27	0.32169	1.0	3.84841	2.7	0.0993	1.0	1.34	1798.0	39.7	1602.9	194.7	1611.0	19.3	1824.4	17.9	1730.7	16.0	1598.1	97.9	1369.4	49.4	1369.4	49.4	-8.3
G34	138	0.74	0.11475	0.9	0.94081	1.7	0.06283	1.1	1.06	700.3	13.9	673.3	32.3	702.5	22.8	700.2	6.7	707.3	7.3	621.0	71.8	365.8	194.0	700.3	13.9	-4.0
G35	489	0.61	0.06765	0.9	0.51639	1.5	0.0562	1.1	0.38	422.0	8.3	422.7	15.7	460.3	24.6	421.5	4.5	435.8	4.8	406.9	49.8	331.1	155.7	422.0	8.3	0.2
G36	517	0.41	0.27955	0.9	4.10471	1.3	0.10501	0.7	0.58	1589.1	31.9	1655.2	99.8	1714.5	12.8	1574.5	14.0	1599.3	13.4	1297.5	129.7	1623.5	52.5	1623.5	52.5	0.6
G37	103	0.28	0.32653	0.9	4.58438	2.2	0.10536	0.9	0.64	1821.5	38.6	1746.4	183.4	1720.6	15.9	1836.7	17.3	1803.1	15.4	1723.2	100.0	1617.7	38.7	1720.6	15.9	-4.3
G38	107	0.19	0.18419	0.9	1.71773	1.8	0.07297	1.0	1.03	1089.8	21.9	1015.2	61.0	1013.1	19.6	1093.8	10.0	1059.0	9.8	974.6	55.7	744.9	73.5	1013.1	19.6	-7.4
G39	275	0.72	0.03128	1.0	0.21322	2.0	0.05067	1.7	0.57	198.6	4.6	196.3	8.8	225.8	38.8	198.4	3.0	206.5	3.2	182.8	21.5	-1.9	243.4	198.6	4.6	-1.2
G40	1096	0.19	0.06418	0.9	0.49986	0.9	0.0561	0.8	0.03	401.0	7.7	411.6	9.8	456.3	17.6	400.3	4.2	405.1	4.3	407.4	15.5	444.9	60.0	400.3	4.2	0.6
G41	497	0.34	0.05234	0.9	0.39427	1.2	0.0549	0.9	0.60	328.9	6.5	337.5	9.7	408.2	21.3	328.1	3.7	328.4	3.8	311.1	27.6	193.8	102.1	328.9	6.5	2.6
G42	347	0.24	0.18312	0.9	1.86794	1.2	0.07399	0.8	0.41	1084.0	21.1	1069.8	45.6	1041.2	15.5	1086.2	9.7	1081.8	9.5	1034.9	60.0	941.0	60.7	1041.2	15.5	-1.3
G43	110	0.29	0.16809	0.9	1.52205	2.1	0.07116	1.1	0.99	1001.6	20.6	939.3	64.1	962.0	23.1	1003.4	9.5	979.8	9.5	905.6	52.8	699.2	68.0	962.0	23.1	-6.6
G44	502	0.43	0.17592	0.9	1.74497	1.2	0.07308	0.8	0.20	1044.6	20.3	1025.3	42.1	1016.2	15.7	1046.0	9.4	1065.8	9.5	1018.8	79.7	967.8	96.2	1016.2	15.7	-1.9
G45	164	0.83	0.02773	1.1	0.18333	2.6	0.05018	2.2	0.82	176.3	4.5	170.9	9.7	203.3	51.9	176.2	3.0	184.0	3.2	154.8	23.9	-142.6	304.6	176.3	4.5	-3.2
G46	213	0.72	0.10452	0.9	0.84791	2.0	0.06027	1.2	0.87	640.8																

G69	266	0.24	0.19644	0.9	2.05201	1.6	0.07753	0.9	0.15	1156.2	23.5	1133.0	64.1	1134.9	17.9	1157.4	10.7	1165.2	10.4	1136.2	54.2	1101.1	53.1	1134.9	17.9	-2.0
G70	884	0.57	0.01434	1.0	0.1074	1.4	0.05459	1.3	-0.35	91.8	3.0	103.6	3.9	395.5	29.7	91.0	2.5	98.1	2.5	109.5	35.6	506.5	140.7	91.0	2.5	10.4
G71	111	0.24	0.22504	1.0	2.75172	2.0	0.09337	1.0	1.71	1308.5	27.6	1342.6	104.9	1495.4	18.2	1293.7	12.3	1241.0	12.0	1243.8	56.6	1167.2	45.9	1167.2	45.9	0.2
G72	448	0.49	0.06825	0.9	0.51377	1.3	0.05512	1.0	-0.23	425.6	8.4	421.0	13.4	417.1	21.6	425.7	4.5	446.6	4.7	436.9	29.3	492.0	117.5	425.6	8.4	-1.1
G73	637	0.71	0.03531	0.9	0.24321	1.3	0.05054	1.1	-0.36	223.7	4.9	221.0	7.0	219.9	26.2	223.7	3.1	244.5	3.3	235.9	80.8	351.2	191.5	223.7	4.9	-1.2
G74	83	0.95	0.55497	0.9	12.85428	2.0	0.17921	0.8	-0.05	2845.8	66.6	2669.0	429.3	2645.6	13.2	3015.3	51.7	3066.2	23.7	2733.0	398.8	2649.8	58.0	2645.6	13.2	-6.6
G75	160	1.53	0.01299	1.3	0.08153	3.9	0.04794	3.7	-1.60	83.2	3.2	79.6	6.9	96.3	88.4	83.2	2.6	290.4	3.1	107.3	54.1	646.7	430.9	83.2	3.2	-4.5
G76	184	0.24	0.23967	0.9	2.77973	1.5	0.08697	0.8	0.40	1385.0	28.7	1350.1	81.8	1359.8	16.3	1387.0	12.8	1382.2	12.2	1341.5	84.4	1280.5	46.6	1359.8	16.3	-2.6
G77	432	0.16	0.2673	0.9	3.50254	1.4	0.0963	0.8	0.19	1527.1	31.7	1527.8	94.3	1553.6	15.2	1524.4	14.0	1529.2	13.0	1523.2	89.2	1521.3	37.2	1553.6	15.2	0.0
G78	103	0.46	0.24762	0.9	2.66154	1.8	0.08507	0.9	0.42	1426.2	30.2	1317.8	94.8	1317.1	18.2	1435.5	13.5	1443.5	13.1	1347.1	108.7	1231.8	70.9	1231.8	70.9	-7.2
G79	205	0.25	0.25058	0.9	3.00548	1.4	0.09032	0.8	0.36	1441.5	29.9	1409.0	81.3	1432.3	15.6	1442.3	13.3	1441.9	12.6	1408.3	80.3	1365.4	43.1	1432.3	15.6	-2.3
G80	186	0.15	0.21021	0.9	2.24594	1.6	0.07984	0.9	0.29	1229.9	25.5	1195.5	69.0	1193.0	17.7	1232.3	11.5	1226.6	11.0	1192.1	68.5	1130.0	61.0	1193.0	17.7	-2.9
G81	150	1.14	0.06338	1.0	0.45354	2.1	0.05532	1.6	-0.66	396.1	8.6	379.8	19.4	425.2	34.8	395.8	4.6	504.3	5.3	435.4	78.5	634.3	273.5	396.1	8.6	-4.3
G82	421	0.60	0.24077	0.9	3.32155	1.6	0.10142	0.8	-1.28	1390.7	29.0	1486.1	101.1	1650.3	15.9	1367.0	12.8	1538.8	12.7	1589.7	129.0	1841.4	64.6	1841.4	64.6	3.2
G83	255	0.88	0.02616	1.1	0.17581	2.6	0.04976	2.3	-0.78	166.5	4.4	164.4	9.5	183.8	52.5	166.4	3.0	194.0	3.2	188.5	50.4	457.1	221.6	166.5	4.4	-1.2
G84	351	0.52	0.30265	0.9	4.10358	1.2	0.10168	0.8	-0.31	1704.4	35.9	1655.0	97.0	1655.0	14.4	1710.8	16.0	1788.1	14.9	1707.1	146.1	1704.7	56.7	1655.0	14.4	-3.0
G85	256	0.55	0.28119	0.9	3.65	1.4	0.09583	0.8	0.01	1597.4	33.6	1560.5	95.5	1544.4	15.3	1603.2	14.9	1656.7	14.3	1573.7	126.4	1542.4	66.8	1544.4	15.3	-2.4
G86	345	0.23	0.05465	1.0	0.39419	1.4	0.05353	1.1	0.28	343.0	7.1	337.4	11.7	351.3	25.4	342.9	4.0	344.3	4.0	330.8	32.4	252.0	87.5	343.0	7.1	-1.7
G87	195	0.33	0.21492	0.9	2.23487	1.7	0.07836	0.9	0.41	1255.0	26.4	1192.0	75.6	1156.0	18.9	1261.5	11.9	1259.3	11.6	1183.1	83.4	1062.3	70.4	1156.0	18.9	-5.3
G88	65	0.75	0.17971	1.0	1.57447	2.3	0.06965	1.2	0.50	1065.4	23.2	960.2	72.0	918.1	25.8	1072.5	10.7	1109.7	11.3	974.0	183.5	783.9	258.4	918.1	25.8	-11.0
G89	373	1.55	0.00317	1.9	0.02129	6.8	0.04784	6.9	-0.72	20.4	2.5	21.4	3.8	91.4	163.5	20.4	2.4	99.6	2.5	23.7	16.4	359.3	569.1	20.4	2.5	4.6
G90	369	0.25	0.07893	1.0	0.59343	1.5	0.05536	1.1	0.06	489.7	9.9	473.1	17.8	426.8	23.9	490.7	5.1	496.6	5.2	474.9	20.5	405.5	76.0	489.7	9.9	-3.5
G91	1791	0.21	0.01012	1.0	0.06662	1.4	0.04754	1.2	-0.10	64.9	2.7	65.5	3.0	76.4	29.6	64.9	2.4	66.1	2.4	66.4	5.2	118.2	99.1	64.9	2.4	0.5
G92	360	0.25	0.0262	1.0	0.17853	1.9	0.04996	1.7	0.29	166.7	4.2	166.8	7.4	193.1	38.7	166.6	2.9	167.6	2.9	160.6	35.7	77.9	111.0	166.7	4.2	0.0
G93	415	0.57	0.28142	0.9	3.85305	1.6	0.10088	0.9	0.31	1598.5	34.2	1603.9	115.2	1640.4	16.0	1593.7	15.1	1639.7	14.6	1592.3	239.2	1589.9	130.7	1640.4	16.0	0.3
G94	252	0.82	0.00323	1.9	0.01995	6.4	0.04677	6.4	0.19	20.8	2.5	20.1	3.5	37.5	153.5	20.8	2.4	22.7	2.4	20.2	38.6	-42.0	292.0	20.8	2.5	-3.6
G95	360	0.32	0.30985	0.9	4.29986	1.4	0.10149	0.8	-0.24	1740.0	37.5	1693.3	118.5	1651.5	15.5	1751.9	16.7	1789.0	15.1	1719.4	158.2	1690.0	70.1	1651.5	15.5	-2.8
G96	195	0.85	0.01007	1.3	0.05954	3.9	0.04446	3.8	-0.44	64.6	2.9	58.7	5.3	-85.1	93.7	64.8	2.5	73.5	2.5	65.8	8.5	100.8	285.3	64.6	2.9	-10.0
G97	805	0.88	0.00519	1.2	0.03359	2.4	0.04721	2.3	-1.29	33.4	2.5	33.5	2.8	59.9	55.1	33.3	2.4	40.4	2.4	41.6	29.7	517.7	223.0	33.4	2.5	0.5
G98	421	0.31	0.17973	0.9	1.79193	1.3	0.07274	0.9	-22.21	1065.5	21.9	1042.5	44.7	1006.7	17.4	1068.4	10.0	1096.4	9.9	1064.9	76.7	1059.1	64.2	1006.7	17.4	-2.2
G99	176	0.63	0.26125	1.0	3.23483	1.6	0.08964	0.9	-49.03	1496.2	32.1	1465.5	102.9	1417.9	17.4	1503.7	14.3	1603.6	14.0	1504.9	148.2	1507.9	76.4	1417.9	17.4	-2.1
G100	481	0.89	0.30434	0.9	4.28902	1.2	0.10275	0.8	-91.43	1712.8	36.7	1691.3	100.4	1674.4	15.1	1717.8	16.3	1949.9	15.8	1767.6	240.9	1816.4	96.7	1674.4	15.1	-1.3
G101	22	0.70	0.24861	1.2	1.79755	4.1	0.07327	1.9	1.67	1431.3	38.6	1044.6	141.1	1021.4	39.3	1463.2	17.6	1511.9	17.3	1273.8	155.9	1017.3	133.3	1017.3	133.3	-18.7
G102	766	0.44	0.09239	1.0	0.78543	1.5	0.06329	1.0	-23.97	569.7	11.7	588.6	23.6	718.0	22.3	566.6	5.8	595.0	6.1	615.6	68.5	783.6	99.0	569.7	11.7	3.2
G103	190	0.57	0.32909	1.0	4.62084	1.7	0.10727	0.9	-30.73	1834.0	40.6	1753.0	150.0	1753.5	16.5	1846.4	18.2	1931.5	16.5	1820.7	159.1	1800.0	58.3	1753.5	16.5	-4.6
G104	235	0.34	0.18508	1.0	1.80172	1.6	0.07412	1.0	-5.47	1094.7	23.0	1046.1	56.5	1044.7	19.5	1097.3	10.5	1121.4	10.4	1082.7	113.1	1057.5	124.6	1057.5	124.6	-3.6
G105	452	1.01	0.00322	1.6	0.0205	4.3	0.04682	4.4	-168.99	20.7	2.4	20.6	3.0	40.1	104.3	20.7	2.4	27.2	2.4	27.4	4.3	622.8	280.0	20.7	2.4	0.5

Appendix 3.3 (contined). U-Pb ages of detrital zircons in the modern Colorado River (CR20), as determined by LA-ICP-MS