

DATA REPOSITORY**ANALYTICAL TECHNIQUES**

Zircons were separated from 3-5 kg samples using standard crushing and grinding techniques, followed by three rounds of magnetic separation at increasing intensities, then liquid separation utilizing lithium metatungstate and methylethyl iodine. A split of ~100-1500 zircon grains was mounted in epoxy for each sample, providing a random sample of the population. Grains were polished to about half their original thicknesses and imaged with reflected light and cathodoluminescence to reveal internal zoning. Most grains display indistinct magmatic zoning or are relatively homogenous; rims were analyzed for grains showing any zoning. Most examined zircons are pale yellow, lack inclusions, and shapes range from euhedral to subrounded. No obvious age groupings were evident based on grain size or morphology.

Mounts were gold-coated prior to analysis, and each sample was sputtered using a primary beam of O²⁻ ions with a spot size of ~25 µm. Counts of Zr₂O, ²⁰⁴Pb, ²⁰⁶Pb, ²⁰⁷Pb, ²⁰⁸Pb, ²³⁸U, ²⁴⁸ThO, and ²⁵⁴UO were measured from the secondary beam. Standard zircons SL13 and CZ3 were employed as concentration standards. Duplicate analyses of standard zircon R33 (419 Ma) were used for age corrections. All reported zircon ages presented in **Table DR 2** were calculated using the Squid data-reduction program of Ludwig (2001). Grains younger than 1100 Ma were corrected using ²⁰⁷Pb and ages were determined from the ²⁰⁶Pb/²³⁸U ratio, whereas zircon grains older than 1100 Ma were corrected using ²⁰⁴Pb and the ²⁰⁷Pb/²⁰⁶Pb ratio. Common Pb corrections were made using the two-stage average crustal Pb model of Stacey and Kramers (1975). Most grains are concordant (i.e., analyses overlap concordia at 2 σ confidence levels) and in the diagrams of **Figure 6**, only zircons concordant at 2 σ confidence levels are shown. Most SIMS ages lie between 85-160 Ma, with a few scattered Proterozoic ± late Archean ages.

REFERENCES

- Ludwig, K.R., 2001, User's Manual for Isoplot/Ex, Version 2.49, A Geochronological toolkit for Microsoft Excel: Berkeley Geochronology Center Special Publication No. 1a, 55p.

Stacey, J. S., and Kramers, J.D., 1975, Approximation of terrestrial lead isotopic evolution by a two-stage model: Earth and Planetary Science Letters, v. 26, p. 207-221.

DATA REPOSITORY FIGURE CAPTIONS

Figure DR1. Photomicrographs (plane light, field of view 2.2 x 1.5 mm) of the six analyzed metagraywackes allow comparison of their contrasting textures: the upper El Cerrito and the Skaggs Springs Schist are thoroughly reconstituted metamorphic rocks, whereas original clasts are apparent in the four structurally lower, weakly recrystallized specimens. See text for brief petrographic descriptions of these six investigated rocks.



San Bruno Mountain



Albany Hill



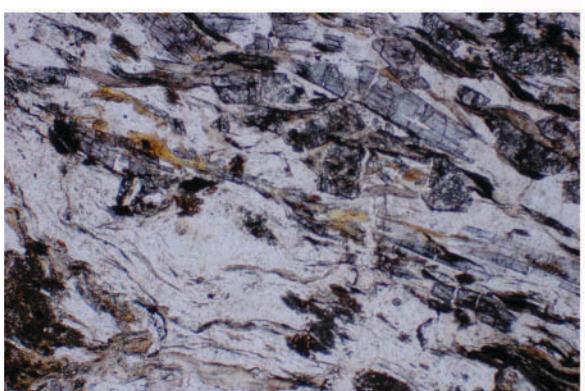
Hunters Point shear zone



lower El Cerrito



Upper El Cerrito



Skaggs Springs Schist

Table DR1. Visually estimated modes of metagraywacke samples in volume %

grains	SBM	AT	HPSZ	LEC	UEC	NS-10
quartz	34	30	27	30	50	30
albite	49	40	36	20	0	0
white mica	1	2	1	10	10	28
stilpnomelane	0	tr	0	2	5	4
biotite	1	3	tr	tr	0	
chlorite	1	0	1	1	2	0
epidote	tr	1	tr	tr	0	0
titanite	tr	0	0	tr	1	tr
opaques+limonite	4	6	2	1	2	2
lawsonite	0	0	0	0	6	3
pumpellyite	0	5	0	tr	0	0
glaucophane	0	0	0	0	2	20
jadeitic pyroxene	0	0	0	0	15	10
siltstone+shale	3	10	22	17	4	0
chert	5	3	3	15	3	0
volcanic rock	tr	0	4	4	0	0
serpentinite	0	0	1	tr	0	0
carbon. matter	2	0	3	0	0	3
total	100	100	100	100	100	100

<u>specimen</u>	<u>location</u>	<u>depositional age</u>
SBM	San Bruno Mountain	52 Ma
AH	Albany Hill (Novato Q terrane)	83 Ma
HPSZ	Hunters Point shear zone	97 Ma
LEC	lower El Cerrito	100 Ma
UEC	upper El Cerrito	102 Ma
NS-10	Skaggs Springs Schist	144 Ma

Table DR2. Detrital zircon data from SHRIMP analysis.

Grain #	Age	1-sigma	$^{206}\text{Pb}/^{238}\text{U}$ Age	1-sigma	$^{207}\text{Pb}/^{206}\text{Pb}$ Age	1-sigma	$^{238}\text{U}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{235}\text{U}$	% error
767-2-2	96.7	1.9	96.7	1.9	-325	564	66.76	2.14	0.04	21.97	0.08	22.07
767-2-r1-30	98.3	1.2	98.3	1.2	580	236	64.17	1.37	0.06	10.86	0.13	10.95
767-2-r1-43	100.5	1.2	100.5	1.2	79	238	63.65	1.26	0.05	10.00	0.10	10.08
767-2-19	101.4	1.0	101.4	1.0	-376	336	63.75	1.15	0.04	12.95	0.09	13.00
767-2-r1-28	101.4	0.8	101.4	0.8	105	79	63.07	0.81	0.05	3.34	0.11	3.44
767-2-r1-35	101.4	0.8	101.4	0.8	15	113	63.19	0.76	0.05	4.70	0.10	4.76
767-2-r1-46	102.0	1.0	102.0	1.0	236	176	62.48	1.06	0.05	7.63	0.11	7.70
767-2-r1-39	102.2	1.1	102.2	1.1	106	106	62.54	1.09	0.05	4.49	0.11	4.62
767-2-r1-27	104.1	1.2	104.1	1.2	-160	205	61.80	1.17	0.04	8.23	0.10	8.31
767-2-20	111.9	2.2	111.9	2.2	-51	386	57.31	2.06	0.05	15.87	0.11	16.01
767-2-r1-25	114.4	3.0	114.4	3.0	-1120	1563	57.08	3.13	0.03	51.33	0.07	51.42
767-2-r1-37	114.5	1.8	114.5	1.8	2	259	55.98	1.64	0.05	10.74	0.11	10.87
767-2-r1-52	116.2	2.9	116.2	2.9			56.90	3.31	0.02	98.94	0.05	99.00
767-2-r1-54	116.4	2.5	116.4	2.5	189	189	54.78	2.13	0.05	8.14	0.13	8.42
767-2-r1-49	117.7	1.8	117.7	1.8	388	144	53.88	1.51	0.05	6.42	0.14	6.60
767-2-5	118.4	3.1	118.4	3.1			55.74	4.58				
767-2-1	118.7	3.3	118.7	3.3	744	187	52.77	2.67	0.06	8.85	0.17	9.24
767-2-r1-32	119.0	2.7	119.0	2.7	-56	420	53.91	2.37	0.04	17.22	0.12	17.38
767-2-r1-41	119.0	2.4	119.0	2.4	301	164	53.41	1.98	0.05	7.21	0.14	7.47
767-2-12	119.5	1.7	119.5	1.7	311	119	53.15	1.41	0.05	5.24	0.14	5.43
767-2-15	119.8	1.6	119.8	1.6	-81	326	53.56	1.49	0.04	13.32	0.11	13.41
767-2-r1-44	120.3	3.0	120.3	3.0	653	175	52.26	2.47	0.06	8.16	0.16	8.53
767-2-8	121.0	4.4	121.0	4.4	1918	149	48.31	3.39	0.12	8.28	0.34	8.95
767-2-9	122.0	2.0	122.0	2.0	58	150	52.42	1.59	0.05	6.27	0.12	6.47
767-2-r1-34	122.1	2.2	122.1	2.2			53.91	2.49	0.02	64.04	0.06	64.09
767-2-4	122.4	3.4	122.4	3.4	-834	2061	53.15	3.93	0.03	72.11	0.09	72.22
767-2-16	122.6	2.1	122.6	2.1	302	138	51.84	1.67	0.05	6.05	0.14	6.27
767-2-r1-48	125.0	2.4	125.0	2.4	128	168	51.07	1.86	0.05	7.14	0.13	7.37
767-2-r1-36	126.0	3.4	126.0	3.4	256	218	50.51	2.61	0.05	9.48	0.14	9.84
767-2-r1-45	126.6	1.0	126.6	1.0	48	69	50.53	0.75	0.05	2.90	0.13	3.00
767-2-r1-50	128.1	3.4	128.1	3.4	-48	235	50.04	2.66	0.05	9.65	0.12	10.01
767-2-r1-51	129.0	3.4	129.0	3.4	418	206	49.07	2.55	0.06	9.21	0.15	9.56
767-2-11	130.8	2.3	130.8	2.3	-411	507	49.38	1.88	0.04	19.38	0.11	19.47
767-2-r1-55	131.9	1.3	131.9	1.3	-17	120	48.57	0.97	0.05	4.94	0.13	5.04
767-2-r1-29	132.1	2.7	132.1	2.7	235	173	48.15	2.03	0.05	7.50	0.15	7.77

Table DR2. Continued

Grain #	Age	1-sigma	$^{206}\text{Pb}/^{238}\text{U}$	Age	1-sigma	$^{207}\text{Pb}/^{206}\text{Pb}$	Age	1-sigma	$^{238}\text{U}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{235}\text{U}$	% error
767-2-r1-42	132.4	2.3		132.4	2.3		44	289	48.31	1.77	0.05	12.09	0.13	12.22
767-2-r1-53	133.4	2.8		133.4	2.8		310	171	47.62	2.07	0.05	7.53	0.15	7.81
767-2-r1-18	133.9	2.0		133.9	2.0		-447	488	48.23	1.66	0.04	18.53	0.11	18.60
767-2-r1-24	135.3	2.1		135.3	2.1		-260	272	47.57	1.59	0.04	10.71	0.12	10.82
767-2-r1-40	139.4	1.9		139.4	1.9		-212	341	46.13	1.49	0.04	13.58	0.13	13.66
767-2-r1-3	142.4	2.0		142.4	2.0		-143	362	45.07	1.55	0.04	14.60	0.13	14.68
767-2-r1-33	145.4	1.9		145.4	1.9		-116	305	44.11	1.44	0.04	12.38	0.14	12.46
767-2-r1-26	145.5	4.0		145.5	4.0				45.21	4.04				
767-2-r1-38	148.1	1.4		148.1	1.4		202	80	42.97	0.93	0.05	3.47	0.16	3.59
767-2-r1-21	148.3	3.0		148.3	3.0		-439	606	43.53	2.20	0.04	23.04	0.12	23.15
767-2-r1-14	152.1	1.6		152.1	1.6		-126	184	42.16	1.10	0.04	7.46	0.14	7.54
767-2-r1-17	153.9	2.1		153.9	2.1		466	101	41.02	1.36	0.06	4.57	0.19	4.77
767-2-r1-6	154.6	3.5		154.6	3.5		422	178	40.89	2.24	0.06	7.96	0.19	8.27
767-2-r1-23	157.4	3.5		157.4	3.5				42.36	3.57				
767-2-r1-22	160.3	4.4		160.3	4.4		758	221	38.98	2.64	0.06	10.49	0.23	10.82
767-2-r1-13	164.8	2.0		164.8	2.0		-381	474	39.08	1.46	0.04	18.23	0.14	18.29
767-2-r1-47	166.6	2.3		166.6	2.3		-292	341	38.60	1.48	0.04	13.35	0.15	13.43
767-2-r1-10	170.7	4.5		170.7	4.5		544	186	36.87	2.57	0.06	8.51	0.22	8.89
767-2-r1-31	192.6	2.2		192.6	2.2		273	87	32.90	1.11	0.05	3.82	0.22	3.98
767-2-r1-7	1840.0	17.6		1840.0	17.6		1794	21	3.04	0.94	0.11	1.16	4.98	1.49
767-3-r1-41	52.6	1.0		52.6	1.0				125.58	2.47	0.02	60.03	0.03	60.08
767-3-r1-2	52.7	2.2		52.7	2.2		476	336	120.45	4.00	0.06	15.21	0.06	15.73
767-3-r1-39	52.7	1.4		52.7	1.4				125.90	4.47				
767-3-r1-28	55.3	0.7		55.3	0.7		246	164	115.60	1.26	0.05	7.13	0.06	7.24
767-3-r1-1	57.0	1.3		57.0	1.3		-400	632	113.62	2.43	0.04	24.24	0.05	24.36
767-3-r1-7	57.5	2.8		57.5	2.8		1273	281	106.73	4.62	0.08	14.41	0.11	15.13
767-3-r1-10	58.7	1.1		58.7	1.1		-1067	958	111.42	2.13	0.03	31.84	0.04	31.91
767-3-r1-31	59.3	1.5		59.3	1.5		726	180	106.01	2.43	0.06	8.50	0.08	8.84
767-3-r1-26	60.3	1.1		60.3	1.1		263	157	105.91	1.74	0.05	6.86	0.07	7.08
767-3-r1-13	61.4	0.7		61.4	0.7		115	114	104.41	1.17	0.05	4.84	0.06	4.98
767-3-r1-18	62.1	0.9		62.1	0.9		-41	230	103.60	1.45	0.05	9.46	0.06	9.57
767-3-r1-44	64.5	1.1		64.5	1.1		202	154	99.12	1.64	0.05	6.62	0.07	6.82
767-3-r1-34	65.5	1.5		65.5	1.5		-493	692	98.98	2.51	0.04	26.02	0.05	26.14
767-3-r1-49	65.9	1.8		65.9	1.8		-933	1416	99.08	3.20	0.03	48.49	0.05	48.60
767-3-r1-14	67.5	1.3		67.5	1.3		115	172	94.93	1.81	0.05	7.28	0.07	7.51

Table DR2. Continued

Grain #	Age	1-sigma	$^{206}\text{Pb}/^{238}\text{U}$	Age	1-sigma	$^{207}\text{Pb}/^{206}\text{Pb}$	Age	1-sigma	$^{238}\text{U}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{235}\text{U}$	% error
767-3-r1-48	69.1	0.6		69.1	0.6		-386	212	93.75	0.88	0.04	8.14	0.06	8.19
767-3-r1-3	72.4	1.7		72.4	1.7				91.55	2.93	0.02	78.99	0.03	79.04
767-3-r1-9	73.0	1.5		73.0	1.5		72	187	87.80	1.99	0.05	7.87	0.07	8.12
767-3-r1-33	74.2	0.8		74.2	0.8		238	92	86.06	1.02	0.05	4.00	0.08	4.13
767-3-r1-37	75.1	0.6		75.1	0.6		-18	125	85.55	0.82	0.05	5.15	0.07	5.22
767-3-r1-15	77.4	0.5		77.4	0.5		44	78	82.81	0.60	0.05	3.25	0.08	3.30
767-3-r1-51	77.7	0.8		77.7	0.8		-97	103	82.79	1.02	0.04	4.21	0.07	4.33
767-3-r2-54	77.7	1.8		77.7	1.8		1459	489	77.99	3.77	0.09	25.72	0.16	25.99
767-3-r1-12	80.4	1.1		80.4	1.1		-161	209	80.16	1.33	0.04	8.40	0.07	8.50
767-3-r1-20	81.0	2.6		81.0	2.6				82.55	5.04				
767-3-r1-23	81.6	1.2		81.6	1.2		-66	258	78.74	1.56	0.04	10.56	0.08	10.67
767-3-r1-40	85.4	1.4		85.4	1.4		342	135	74.48	1.55	0.05	5.96	0.10	6.16
767-3-r2-55	86.5	1.4		86.5	1.4		475	200	73.21	1.69	0.06	9.06	0.11	9.22
767-3-r1-27	87.5	1.7		87.5	1.7		-50	630	73.43	2.28	0.05	25.89	0.08	25.99
767-3-r1-8	87.7	1.3		87.7	1.3		210	128	72.81	1.41	0.05	5.54	0.10	5.72
767-3-r1-29	91.3	1.1		91.3	1.1		77	112	70.15	1.19	0.05	4.72	0.09	4.87
767-3-r1-19	91.3	2.2		91.3	2.2		-493	985	70.93	2.84	0.04	37.06	0.07	37.17
767-3-r1-36	91.4	2.8		91.4	2.8				72.02	3.91	0.02	90.76	0.05	90.84
767-3-r1-30	98.7	0.9		98.7	0.9		-246	182	65.34	0.92	0.04	7.21	0.09	7.27
767-3-r1-47	100.1	0.7		100.1	0.7		151	63	63.79	0.69	0.05	2.70	0.11	2.79
767-3-r2-53	102.7	1.2		102.7	1.2		62	210	62.33	1.24	0.05	8.81	0.10	8.90
767-3-r1-4	107.2	1.1		107.2	1.1		7	129	59.81	1.02	0.05	5.35	0.11	5.45
767-3-r1-45	115.1	0.9		115.1	0.9		14	161	55.62	0.81	0.05	6.71	0.11	6.76
767-3-r1-17	139.7	0.9		139.7	0.9		725	42	44.83	0.60	0.06	1.97	0.20	2.06
767-3-r1-42	140.4	2.3		140.4	2.3		250	142	45.27	1.63	0.05	6.15	0.16	6.36
767-3-r1-16	149.4	1.8		149.4	1.8		67	105	42.75	1.17	0.05	4.41	0.15	4.56
767-3-r1-35	153.7	4.2		153.7	4.2		675	385	40.78	2.88	0.06	17.99	0.21	18.22
767-3-r1-32	157.4	1.9		157.4	1.9		375	92	40.21	1.17	0.05	4.11	0.19	4.27
767-3-r1-50	157.5	3.5		157.5	3.5		-309	512	40.86	2.37	0.04	20.00	0.14	20.14
767-3-r1-38	166.1	2.1		166.1	2.1		309	100	38.17	1.27	0.05	4.41	0.19	4.58
767-3-r1-43	166.8	2.1		166.8	2.1		-378	262	38.60	1.30	0.04	10.11	0.14	10.19
767-3-r1-22	173.9	2.1		173.9	2.1		67	436	36.67	1.57	0.05	18.33	0.18	18.40
767-3-r1-11	180.1	2.6		180.1	2.6		326	158	35.15	1.43	0.05	6.94	0.21	7.09
767-3-r1-25	181.6	2.2		181.6	2.2		576	220	34.59	1.40	0.06	10.13	0.24	10.22
767-3-r1-46	185.2	2.4		185.2	2.4		-1018	1140	35.09	1.89	0.03	38.30	0.12	38.35

Table DR2. Continued

Grain #	Age	1-sigma	$^{206}\text{Pb}/^{238}\text{U}$	Age	1-sigma	$^{207}\text{Pb}/^{206}\text{Pb}$	Age	1-sigma	$^{238}\text{U}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{235}\text{U}$	% error
767-3-r1-5	355.6	2.8		355.6	2.8		425	57	17.60	0.78	0.06	2.54	0.43	2.65
767-3-r1-6	485.2	5.1		485.2	5.1		593	58	12.75	1.05	0.06	2.69	0.65	2.89
767-3-r1-21	1548.4	11.4		1548.4	11.4		1600	18	3.67	0.74	0.10	0.99	3.71	1.23
767-3-r1-24	1955.5	19.1		1955.5	19.1		2252	46	2.74	0.80	0.14	2.64	7.15	2.76
767-3-r1-52	2729.9	39.6		2729.9	39.6		2679	14	1.91	1.08	0.18	0.84	13.18	1.37
741-1-23	143.5	2.3		143.5	2.3				45.75	2.15	0.02	51.73	0.07	51.77
741-1-19	145.5	4.6		145.5	4.6		1007	188	42.52	3.08	0.07	9.25	0.24	9.75
741-3	146.3	2.5		146.3	2.5		6	410	43.73	1.88	0.05	17.03	0.15	17.13
741-1-8	146.4	1.8		146.4	1.8		257	99	43.41	1.20	0.05	4.32	0.16	4.49
741-1-23-core	146.6	2.1		146.6	2.1		371	111	43.21	1.39	0.05	4.95	0.17	5.14
741-1-15	148.2	1.2		148.2	1.2		200	142	42.93	0.83	0.05	6.12	0.16	6.17
741-1-13	149.1	1.1		149.1	1.1		158	74	42.73	0.75	0.05	3.15	0.16	3.24
741-1-5	150.6	7.3		150.6	7.3		1699	212	39.45	4.61	0.10	11.51	0.36	12.40
741-1-10	150.7	2.6		150.7	2.6		380	133	42.02	1.71	0.05	5.92	0.18	6.16
741-11	153.7	3.4		153.7	3.4		-568	1994	42.07	3.75	0.04	73.85	0.12	73.95
741-13	153.8	5.7		153.8	5.7				47.00	11.55				
741-1-22	153.9	3.3		153.9	3.3		536	152	40.93	2.08	0.06	6.93	0.20	7.24
741-7	154.5	1.9		154.5	1.9		450	175	40.89	1.34	0.06	7.86	0.19	7.98
741-1-16	154.9	1.9		154.9	1.9		-441	387	41.65	1.36	0.04	14.72	0.13	14.79
741-8	155.3	4.4		155.3	4.4		819	529	40.13	2.65	0.07	25.32	0.23	25.46
741-4	159.1	8.5		159.1	8.5		2757	163	33.03	4.58	0.19	9.90	0.80	10.91
741-2	160.1	2.1		160.1	2.1		-14	270	39.94	1.44	0.05	11.18	0.16	11.27
741-6	170.7	2.9		170.7	2.9				38.25	2.59	0.03	60.56	0.10	60.62
741-1-4	171.1	1.8		171.1	1.8		47	169	37.29	1.11	0.05	7.09	0.17	7.18
741-1-20	173.6	3.0		173.6	3.0		806	311	35.90	2.07	0.07	14.88	0.25	15.02
741-1-9	176.0	1.1		176.0	1.1		262	119	36.05	0.69	0.05	5.18	0.20	5.22
741-1	342.3	5.5		342.3	5.5		45	371	18.48	1.82	0.05	15.53	0.35	15.63
741-1-2	459.5	2.6		459.5	2.6		434	37	13.54	0.57	0.06	1.67	0.57	1.77
741-9	478.7	5.5		478.7	5.5		562	80	12.94	1.18	0.06	3.68	0.63	3.86
741-1-3	565.4	9.6		565.4	9.6		586	134	10.90	1.74	0.06	6.17	0.75	6.41
741-1-21	632.4	6.1		632.4	6.1		697	47	9.68	0.97	0.06	2.20	0.89	2.41
741-1-17	693.6	6.9		693.6	6.9		707	53	8.80	1.01	0.06	2.48	0.99	2.68
741-1-26	743.3	13.3		743.3	13.3		753	187	8.18	1.91	0.06	8.85	1.08	9.06
741-1-25	994.2	9.9		994.2	9.9		971	40	6.00	1.02	0.07	1.98	1.64	2.22
741-10	1079.5	18.4		1079.5	18.4		818	163	5.55	1.82	0.07	7.82	1.65	8.03

Table DR2. Continued

Grain #	Age	1-sigma	$^{206}\text{Pb}/^{238}\text{U}$ Age	1-sigma	$^{207}\text{Pb}/^{206}\text{Pb}$ Age	1-sigma	$^{238}\text{U}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{235}\text{U}$	% error	
741-1-11	1206.1	10.2	1206.1	10.2		1196	28	4.86	0.86	0.08	1.41	2.27	1.65
741-1-12	1264.9	10.2	1264.9	10.2		1247	25	4.62	0.82	0.08	1.29	2.45	1.53
741-1-1	1396.3	18.9	1396.3	18.9		1459	52	4.12	1.35	0.09	2.71	3.07	3.03
741-1-6	1558.3	23.1	1558.3	23.1		1531	41	3.66	1.50	0.10	2.17	3.58	2.63
741-1-27	1615.5	17.4	1615.5	17.4		1653	25	3.50	1.08	0.10	1.37	4.00	1.75
741-1-18	1759.7	14.7	1759.7	14.7		1768	18	3.18	0.83	0.11	0.98	4.68	1.28
741-5	2043.4	35.8	2043.4	35.8		2026	30	2.69	1.68	0.12	1.70	6.41	2.39
741-1-14	2461.8	33.1	2461.8	33.1		2508	16	2.14	1.15	0.17	0.97	10.65	1.50
UEC-23	101.1	1.4	101.1	1.4	-29	139	63.49	1.41	0.05	5.73	0.10	5.90	
UEC-11	111.6	2.2	111.6	2.2	-192	262	57.65	2.00	0.04	10.48	0.10	10.67	
UEC-21	114.6	2.6	114.6	2.6	294	152	55.47	2.24	0.05	6.68	0.13	7.04	
UEC-45	115.8	2.4	115.8	2.4	-62	645	55.40	2.49	0.04	26.46	0.11	26.58	
UEC-20	117.5	1.8	117.5	1.8	106	83	54.36	1.54	0.05	3.50	0.12	3.82	
UEC-31	119.3	1.7	119.3	1.7	280	129	53.33	1.49	0.05	5.63	0.13	5.82	
UEC-40	119.4	1.7	119.4	1.7	-413	232	54.11	1.50	0.04	8.86	0.10	8.99	
UEC-25	122.1	2.0	122.1	2.0	105	95	52.32	1.63	0.05	4.00	0.13	4.32	
UEC-9	122.5	2.0	122.5	2.0	213	92	52.00	1.64	0.05	3.97	0.13	4.30	
UEC-12	122.6	2.8	122.6	2.8	-568	770	52.82	2.54	0.04	28.50	0.10	28.61	
UEC-30	123.0	3.0	123.0	3.0	273	168	51.72	2.42	0.05	7.34	0.14	7.73	
UEC-26	123.1	2.1	123.1	2.1	150	97	51.85	1.66	0.05	4.15	0.13	4.47	
UEC-14	124.1	2.3	124.1	2.3	-152	356	51.77	1.97	0.04	14.34	0.12	14.47	
UEC-16	125.7	2.0	125.7	2.0	108	85	50.80	1.56	0.05	3.58	0.13	3.90	
UEC-34	129.0	2.2	129.0	2.2	116	106	49.49	1.73	0.05	4.49	0.13	4.82	
UEC-19	132.0	2.3	132.0	2.3	-12	171	48.50	1.78	0.05	7.08	0.13	7.30	
UEC-32	134.5	2.8	134.5	2.8	127	140	47.43	2.03	0.05	5.94	0.14	6.28	
UEC-28	135.6	2.8	135.6	2.8	249	135	46.91	2.08	0.05	5.85	0.15	6.21	
UEC-29	136.0	1.9	136.0	1.9	85	79	46.97	1.43	0.05	3.32	0.14	3.62	
UEC-38	136.4	2.6	136.4	2.6	-27	208	46.95	1.90	0.05	8.59	0.13	8.79	
UEC-17	137.1	2.4	137.1	2.4	122	102	46.52	1.73	0.05	4.34	0.14	4.67	
UEC-42	137.4	2.4	137.4	2.4	-22	107	46.61	1.73	0.05	4.41	0.14	4.74	
UEC-6	138.3	2.5	138.3	2.5	226	111	46.01	1.83	0.05	4.80	0.15	5.14	
UEC-1	140.9	2.5	140.9	2.5	158	109	45.25	1.80	0.05	4.67	0.15	5.00	
UEC-36	141.2	2.2	141.2	2.2	61	119	45.26	1.60	0.05	4.99	0.14	5.24	
UEC-22	144.3	2.8	144.3	2.8	59	129	44.28	1.93	0.05	5.42	0.15	5.76	
UEC-3	146.9	2.4	146.9	2.4	-8	136	43.55	1.65	0.05	5.62	0.15	5.86	

Table DR2. Continued

Grain #	Age	1-sigma	$^{206}\text{Pb}/^{238}\text{U}$	Age	1-sigma	$^{207}\text{Pb}/^{206}\text{Pb}$	Age	1-sigma	$^{238}\text{U}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{235}\text{U}$	% error
UEC-44	147.8	2.9		147.8	2.9		221	120	43.04	1.93	0.05	5.18	0.16	5.53
UEC-41	149.0	2.4		149.0	2.4				44.08	1.99	0.02	41.71	0.07	41.76
UEC-10	149.5	2.2		149.5	2.2		24	95	42.76	1.50	0.05	3.97	0.15	4.24
UEC-8	149.8	2.6		149.8	2.6		414	239	42.21	1.88	0.06	10.68	0.18	10.84
UEC-24	151.0	2.7		151.0	2.7		-170	290	42.50	1.86	0.04	11.65	0.14	11.80
UEC-27	153.1	2.6		153.1	2.6		-141	231	41.90	1.72	0.04	9.34	0.14	9.50
UEC-35	153.2	3.3		153.2	3.3		-218	316	41.94	2.19	0.04	12.55	0.14	12.74
UEC-39	153.9	3.3		153.9	3.3		-274	322	41.80	2.19	0.04	12.66	0.14	12.85
UEC-5	154.7	2.7		154.7	2.7		489	88	40.79	1.72	0.06	4.01	0.19	4.36
UEC-4	157.6	2.5		157.6	2.5		228	111	40.33	1.61	0.05	4.82	0.17	5.08
UEC-7	175.3	2.5		175.3	2.5		163	59	36.28	1.41	0.05	2.52	0.19	2.88
UEC-37	1166.0	17.7		1166.0	17.7		1016	67	5.08	1.58	0.07	3.31	1.98	3.66
UEC-15	1406.8	23.4		1406.8	23.4		1373	54	4.11	1.72	0.09	2.81	2.94	3.29
UEC-2	1480.7	19.5		1480.7	19.5		1669	14	3.82	1.35	0.10	0.78	3.69	1.56
UEC-13	1597.6	21.6		1597.6	21.6		1692	15	3.53	1.38	0.10	0.84	4.05	1.61
UEC-33	1679.4	23.2		1679.4	23.2		1667	16	3.36	1.40	0.10	0.88	4.19	1.65
UEC-43	1792.6	27.1		1792.6	27.1		1705	19	3.14	1.51	0.10	1.01	4.59	1.82
UEC-18	2865.0	78.2		2865.0	78.2		2688	16	1.84	1.87	0.18	0.98	13.75	2.11
LEC-21	101.0	1.7		101.0	1.7		34	112	63.43	1.68	0.05	4.67	0.10	4.96
LEC-37	106.0	1.3		106.0	1.3		-23	105	60.52	1.28	0.05	4.34	0.10	4.53
LEC-34	120.0	3.0		120.0	3.0				54.68	2.75	0.03	42.90	0.07	42.99
LEC-9	122.0	2.5		122.0	2.5		404	128	51.93	1.99	0.05	5.70	0.15	6.03
LEC-3	137.6	2.2		137.6	2.2		193	91	46.28	1.60	0.05	3.91	0.15	4.23
LEC-8	137.6	2.7		137.6	2.7		28	142	46.47	1.96	0.05	5.92	0.14	6.24
LEC-25	139.0	2.3		139.0	2.3		127	129	45.91	1.63	0.05	5.50	0.15	5.74
LEC-16	140.5	3.0		140.5	3.0		352	138	45.14	2.12	0.05	6.11	0.16	6.47
LEC-1	140.7	2.7		140.7	2.7		-41	229	45.52	1.95	0.05	9.42	0.14	9.62
LEC-14	140.8	2.8		140.8	2.8		377	124	44.99	1.96	0.05	5.52	0.17	5.86
LEC-15	142.3	2.8		142.3	2.8		110	132	44.85	1.93	0.05	5.60	0.15	5.92
LEC-2	142.4	2.4		142.4	2.4		-283	291	45.21	1.78	0.04	11.43	0.13	11.57
LEC-17	142.7	3.0		142.7	3.0		122	255	44.69	2.14	0.05	10.82	0.15	11.03
LEC-26	143.4	3.9		143.4	3.9		1392	520	42.30	4.08	0.09	27.12	0.29	27.43
LEC-4	143.5	2.4		143.5	2.4		-153	252	44.72	1.74	0.04	10.15	0.13	10.30
LEC-18	144.2	2.6		144.2	2.6		222	115	44.10	1.81	0.05	4.97	0.16	5.29
LEC-6	144.7	3.6		144.7	3.6		258	175	43.93	2.47	0.05	7.62	0.16	8.01

Table DR2. Continued

Grain #	Age	1-sigma	$^{206}\text{Pb}/^{238}\text{U}$	Age	1-sigma	$^{207}\text{Pb}/^{206}\text{Pb}$	Age	1-sigma	$^{238}\text{U}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{235}\text{U}$	% error
LEC-10	145.1	2.6		145.1	2.6		124	115	43.95	1.79	0.05	4.90	0.15	5.22
LEC-30	145.7	2.9		145.7	2.9		159	133	43.73	2.00	0.05	5.70	0.16	6.05
LEC-40	146.1	3.5		146.1	3.5				45.20	3.05	0.02	85.08	0.06	85.13
LEC-112	146.3	2.8		146.3	2.8		282	119	43.41	1.89	0.05	5.22	0.16	5.55
LEC-36	146.4	2.2		146.4	2.2		-156	199	43.84	1.55	0.04	8.01	0.14	8.16
LEC-32	147.0	2.8		147.0	2.8		128	125	43.39	1.92	0.05	5.32	0.15	5.66
LEC-38	147.1	3.5		147.1	3.5				44.34	2.72	0.03	40.88	0.09	40.97
LEC-28	148.2	2.5		148.2	2.5		209	91	42.93	1.66	0.05	3.94	0.16	4.28
LEC-19	149.4	2.2		149.4	2.2		213	72	42.57	1.48	0.05	3.11	0.16	3.45
LEC-41	149.6	2.1		149.6	2.1		-23	79	42.78	1.41	0.05	3.28	0.15	3.57
LEC-24	149.6	2.6		149.6	2.6		123	110	42.61	1.73	0.05	4.67	0.16	4.98
LEC-31	149.8	3.2		149.8	3.2		-405	382	43.04	2.22	0.04	14.62	0.13	14.79
LEC-13	150.1	3.0		150.1	3.0		52	236	42.56	2.02	0.05	9.90	0.15	10.11
LEC-11	150.4	3.0		150.4	3.0		202	132	42.30	1.97	0.05	5.68	0.16	6.01
LEC-7	150.5	3.1		150.5	3.1		225	141	42.24	2.06	0.05	6.10	0.17	6.44
LEC-39	151.7	2.5		151.7	2.5		176	93	41.98	1.66	0.05	3.97	0.16	4.30
LEC-27	151.7	4.0		151.7	4.0		-728	921	42.75	2.90	0.03	32.96	0.11	33.09
LEC-33	152.2	3.8		152.2	3.8		-1015	1346	42.77	2.98	0.03	45.23	0.10	45.33
LEC-23	153.3	2.2		153.3	2.2		12	78	41.69	1.41	0.05	3.23	0.15	3.52
LEC-20	154.6	2.5		154.6	2.5		-69	137	41.42	1.62	0.04	5.63	0.15	5.86
LEC-5	155.6	3.0		155.6	3.0		102	126	40.99	1.89	0.05	5.32	0.16	5.65
LEC-35	155.9	3.4		155.9	3.4		133	148	40.87	2.16	0.05	6.28	0.16	6.64
LEC-22	157.2	2.9		157.2	2.9		309	109	40.34	1.82	0.05	4.79	0.18	5.13
LEC-29	157.3	2.6		157.3	2.6		-307	385	40.90	1.81	0.04	15.04	0.14	15.14
767-1-16	82.9	1.7		82.9	1.7		779	783	75.65	2.64	0.07	37.24	0.12	37.34
767-1-9	85.5	1.2		85.5	1.2		-62	230	75.17	1.44	0.04	9.42	0.08	9.53
767-1-38	85.5	1.9		85.5	1.9		-340	743	75.55	2.47	0.04	28.82	0.07	28.93
767-1-44	86.4	2.2		86.4	2.2		-683	1446	75.20	3.28	0.04	52.25	0.06	52.35
767-1-14	91.5	1.4		91.5	1.4		-122	289	70.30	1.60	0.04	11.72	0.09	11.83
767-1-34	92.2	1.3		92.2	1.3		167	180	69.31	1.37	0.05	7.70	0.10	7.82
767-1-7	93.0	0.8		93.0	0.8		122	82	68.74	0.88	0.05	3.49	0.10	3.60
767-1-26	94.6	1.7		94.6	1.7		771	347	66.22	2.13	0.06	16.47	0.14	16.60
767-1-33	94.6	0.9		94.6	0.9		-99	173	67.93	1.00	0.04	7.02	0.09	7.09
767-1-35	97.9	1.2		97.9	1.2		189	105	65.18	1.18	0.05	4.50	0.11	4.65
767-1-29	106.7	1.8		106.7	1.8		-242	482	60.38	1.90	0.04	19.07	0.10	19.16

Table DR2. Continued

Grain #	Age	1-sigma	$^{206}\text{Pb}/^{238}\text{U}$	Age	1-sigma	$^{207}\text{Pb}/^{206}\text{Pb}$	Age	1-sigma	$^{238}\text{U}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{235}\text{U}$	% error
767-1-46	108.1	1.9		108.1	1.9		-724	1100	60.13	2.33	0.03	39.43	0.08	39.50
767-1-10	108.6	2.6		108.6	2.6		1004	462	57.09	3.07	0.07	22.77	0.18	22.97
767-1-5	116.6	3.1		116.6	3.1		787	180	53.62	2.58	0.07	8.58	0.17	8.96
767-1-51	123.0	1.1		123.0	1.1		147	117	51.87	0.94	0.05	4.99	0.13	5.07
767-1-37	124.8	0.8		124.8	0.8		-207	171	51.54	0.72	0.04	6.80	0.11	6.84
767-1-15	145.7	2.2		145.7	2.2		231	194	43.63	1.55	0.05	8.40	0.16	8.54
767-1-52	146.3	3.5		146.3	3.5		-9	499	43.73	2.56	0.05	20.65	0.14	20.81
767-1-17	152.1	2.2		152.1	2.2		-267	293	42.29	1.52	0.04	11.55	0.13	11.65
767-1-53	156.2	4.3		156.2	4.3				42.61	4.19				
767-1-39	160.7	2.4		160.7	2.4				40.89	2.05	0.02	52.55	0.08	52.59
767-1-19	161.2	1.6		161.2	1.6		153	81	39.50	0.95	0.05	3.46	0.17	3.59
767-1-24	162.6	3.0		162.6	3.0		-70	309	39.37	1.89	0.04	12.66	0.16	12.80
767-1-23	194.2	3.9		194.2	3.9		-1056	1112	33.47	2.38	0.03	37.03	0.13	37.10
767-1-13	194.8	2.3		194.8	2.3		25	184	32.73	1.22	0.05	7.65	0.20	7.75
767-1-25	212.6	5.2		212.6	5.2		505	166	29.56	2.42	0.06	7.54	0.27	7.92
767-1-4	218.8	2.2		218.8	2.2		-135	286	29.21	1.16	0.04	11.58	0.21	11.63
767-1-49	442.0	4.1		442.0	4.1		551	55	14.04	0.93	0.06	2.54	0.58	2.71
767-1-47	654.6	5.1		654.6	5.1		652	55	9.36	0.80	0.06	2.58	0.90	2.71
767-1-30	1291.5	19.6		1291.5	19.6		1330	53	4.50	1.54	0.09	2.73	2.63	3.13
767-1-11	1306.5	18.4		1306.5	18.4		1293	44	4.45	1.43	0.08	2.28	2.60	2.69
767-1-12	1352.7	7.7		1352.7	7.7		1406	17	4.27	0.58	0.09	0.87	2.88	1.04
767-1-6	1365.1	6.0		1365.1	6.0		1369	13	4.24	0.45	0.09	0.66	2.84	0.80
767-1-18	1381.4	4.0		1381.4	4.0		1396	8	4.18	0.30	0.09	0.44	2.92	0.53
767-1-41	1389.6	9.4		1389.6	9.4		1377	21	4.16	0.69	0.09	1.09	2.91	1.29
767-1-32	1392.6	12.6		1392.6	12.6		1417	28	4.14	0.92	0.09	1.47	2.98	1.74
767-1-45	1398.7	10.6		1398.7	10.6		1368	40	4.13	0.74	0.09	2.09	2.91	2.22
767-1-55	1398.8	8.9		1398.8	8.9		1367	19	4.13	0.65	0.09	0.97	2.91	1.17
767-1-43	1411.4	4.5		1411.4	4.5		1379	11	4.09	0.32	0.09	0.56	2.96	0.65
767-1-28	1428.7	6.9		1428.7	6.9		1392	23	4.04	0.49	0.09	1.19	3.02	1.29
767-1-20	1430.2	5.3		1430.2	5.3		1384	11	4.04	0.38	0.09	0.55	3.01	0.67
767-1-1	1433.4	5.3		1433.4	5.3		1387	10	4.03	0.38	0.09	0.54	3.02	0.66
767-1-27	1450.9	3.0		1450.9	3.0		1375	8	3.98	0.21	0.09	0.44	3.04	0.48
767-1-8	1457.4	3.8		1457.4	3.8		1441	7	3.95	0.26	0.09	0.37	3.17	0.46
767-1-50	1468.2	5.6		1468.2	5.6		1385	11	3.93	0.39	0.09	0.55	3.09	0.68
767-1-2	1616.6	11.7		1616.6	11.7		1645	17	3.50	0.73	0.10	0.93	3.98	1.18

Table DR2. Continued

Grain #	Age	1-sigma	$^{206}\text{Pb}/^{238}\text{U}$	Age	1-sigma	$^{207}\text{Pb}/^{206}\text{Pb}$	Age	1-sigma	$^{238}\text{U}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{206}\text{Pb}$	% error	$^{207}\text{Pb}/^{235}\text{U}$	% error
767-1-22	1647.9	13.4		1647.9	13.4		1644	19	3.43	0.81	0.10	1.04	4.06	1.32
767-1-48	1690.3	15.3		1690.3	15.3		1697	20	3.33	0.90	0.10	1.11	4.30	1.43
767-1-40	1694.2	25.1		1694.2	25.1		1767	34	3.31	1.48	0.11	1.85	4.50	2.37
767-1-31	1717.4	16.8		1717.4	16.8		1705	48	3.28	0.92	0.10	2.63	4.39	2.78
767-1-36	1731.2	13.3		1731.2	13.3		1675	18	3.26	0.76	0.10	0.96	4.35	1.23
767-1-21	1743.0	20.6		1743.0	20.6		1708	37	3.23	1.19	0.10	1.99	4.47	2.32
767-1-3	1759.8	25.1		1759.8	25.1		1768	31	3.18	1.41	0.11	1.69	4.68	2.21
767-1-54	1804.7	23.2		1804.7	23.2		1750	31	3.11	1.28	0.11	1.70	4.75	2.12
767-1-42	1960.7	35.8		1960.7	35.8		1919	53	2.82	1.80	0.12	2.96	5.74	3.46

UEC=Upper El Cerrito sample

LEC=Lower El Cerrito sample

767-1= Albany Hill sample (Novato Quarry terrane)

767-2= Hunters Point shear zone sample

767-3= San Bruno Mountain sample

741-1= Skaggs Spring Schist sample