

Supplemental Table 1. Sedimentary description of core BDL12 (recovered August 7, 2012 from Baldwin Lake, San Bernardino County, U.S.A., 34°16.56633', -116°48.61182' and 2060 masl)

<i>Core Depth (cm)</i>	<i>Age (ka)*</i>	<i>Description of Sediment</i>
4 – 140	5.4 – 10.9	brown to dark gray massive clayey silt, lightening downsection and becoming diffusely bedded
140 – 150	10.9 – 11.3	light gray swaley laminated clayey silt with irregular mineralizations/silty deposits
150 – 154	11.3 – 11.8	olive massive clayey silt with organic fragments throughout including large (>1 cm) charcoal pieces
154 – 187	11.8 – 15.9	sharp contact at 37 cm; light gray massive clayey silt with irregular mineralizations, silty deposits, and laminations throughout
187 – 270	15.9 – 24.9	dark greenish gray massive clayey silt with sparse silty laminations, transitioning to subtle mottling and irregular iron oxidation downsection
270 – 276		<i>gap</i>
276 – 553	25.1 – 32.0	dark gray diffusely bedded (2-3 cm) clayey silt with oxidation, black flecks (charcoal?), and visible micaceous below 60 cm. Bedding thickness increases downsection to up to 8 cm, but remains diffuse
554 – 607	32.0 – 34.4	dark gray massive clayey silt
607 – 793	34.4 – 43.0	dark gray clayey silt with sparse oxidized horizons, faintly bedded with (0.5-5 cm), darkening and increasingly micaceous downsection
793 – 851	43.0 – 45.9	brown-gray massive clayey silt with irregular sandy microlayers and organics
851 – 968	45.9 – 50.3	olive gray faintly-bedded (beds >5cm) clayey silt with some oxidations; beds and mottling increasingly apparent downsection
968 – 989	50.3 – 51.5	black massive clayey silt
989 – 1067		<i>gap</i>
1067 – 1125	54.0 – 56.2	dark brown to black sharply-banded sandy silt, major beds >4cm thick, with minor internal laminations visible; tephra at 1113 cm
1125 – 1182	56.2 – 58.3	dark brown to black faintly banded massive silt (bands range 0.5 – 2 cm thick)
1195 – 1495	58.8 – 70.0	black to dark gray faintly banded clayey silt, bands start 2-8 cm thick, thin downsection to ~0.5 – 6 cm thick
1495 – 1532	70.0 – 71.3	dark brown organic-rich clayey silt with sporadic shell fragments at 1496 and 1510 cm
1532 – 1556	71.3 – 72.2	gray massive faintly-banded sandy silt, bands 2-3 thick with sharp contacts
1556 – 1574	72.2 – 72.9	gray massive gritty sandy silt with visible small shells
1574 – 1595		<i>gap</i>
1595 – 1643	73.7 – 76.1	dark green gray to dark gray massive clayey silt, darkens downsection
1643 – 1654	76.1 – 76.7	black, brown-gray, and gray banded clayey silt (bands 1-3 cm thick)
1654 – 1668	76.7 – 77.4	very dark gray massive clayey silt with mollusks

Sedimentary description, cont.

<i>Core Depth (cm)</i>	<i>Age (ka)*</i>	<i>Description of Sediment</i>
1668 – 1746	77.4 – 81.5	black faintly-banded clayey silt, bands increasingly thinner laminations at 48 cm
1746 – 1774	81.5 – 82.9	diffuse contact to marly brown clayey banded silt with shells; bands sharply defined and 3-8 cm, shells throughout
1774 – 1798		<i>gap</i>
1798 – 1830	84.0 – 85.4	dark olive brown massive clayey silt with abundant mollusks that are less frequent downsection
1830 – 1861	85.4 – 86.6	sharp contact; dark brown diffusely-banded clayey silt with sparse mollusks
1861 – 1903	86.6 – 88.3	dark gray massive organic clayey silt that lightens downsection; black flecks increase downsection
1903 – 1950	88.3 – 90.2	gray massive sandy silt with sparse mollusks; gradually lightens and mollusks decrease downsection
1950 – 2005		<i>gap</i>
2005 – 2059	92.4 – 94.6	dark greenish gray massive sandy silt
2059 – 2083		<i>gap – IRSL dating</i>
2083 – 2135	95.5 – 98.4	highly disturbed black sandy silt
2135 – 2163	98.4 – 100.2	black massive sandy silt
2163 – 2190	100.2 – 102.1	<i>gap – IRSL dating</i>
2190 – 2213	102.1 – 103.6	black massive micaaceous sandy silt with sparse mollusks layers
2213 – 2279	103.6 – 107.5	black to dark gray banded (1-4 cm) sandy silt; bands increasingly thin downsection
2279 – 2297	107.5 – 108.3	dark olive gray massive sandy silt with black flecks throughout
2297 – 2347	108.3 – 110.8	brown gray to gray massive sandy silt lightening gradually downsection
2347 – 2556	110.8 – 120.3	gray to greenish-gray massive clayey silt
2556 – 2580		<i>gap – IRSL dating</i>
2580 – 2596	121.0 – 121.4	dark greenish clayey silt
2596 – 2686	121.4 – 124.9	brown-gray massive poorly sorted sand, with some pebbles throughout
2686 – 2706		<i>gap – IRSL dating</i>

*Weighted mean age from Bacon 2.2 age model – see text