UNIT DESCRIPTIONS:

Unit 1 BONNEVILLE LAKE DEPOSITS

Post-Bonneville soil —
10 Brown (10 YR 5/2, moist) and grayish brown (10 YR 5/2, moist) silty fine sand; vesicular; weakly cemented by calcium carbonate; locally, upper 10 to 15 cm is noncalcareous and darker (10 YR 4/4, moist).

Coarse-grained lake sediments —
14 Interbedded coarse sand, pebble to cobble gravel, and minor fine to medium sand; gravel clasts are subrounded to rounded, maximum size 12 cm, mode less than 1 cm, 2 to 5 cm pebbles are common; well bedded; gravel beds range in thickness from 3 to 20 cm, individual beds are moderately to well sorted; loose; weakly cemented by calcium carbonate in places.

Silty lake sediments —
16 Grayish brown (2.5 YR 5/2) to light olive gray (2.5 YR 5/2, moist) and dark yellowish brown (10 YR 4/6, moist) finely laminated clayey silt and silt; laminae are generally less than 1 to 2 mm thick; iron-staining occurs along many laminae.

Clayey lake sediments —
18 Light yellowish brown (2.5 YR 6/4, moist), light brownish gray (2.5 YR 6/2, moist), grayish brown (2.5 YR 5/2, moist), and dark grayish brown (2.5 YR 4/2, moist) silty clay and minor silt; finely laminated; contains some calcium carbonate concretions.

EXPLANATION:

Lithologic contact; dashed where less distinct; dotted where approximate or gradational; heavy contacts are between major lithologic units; fine contacts are between different lithologies within a unit.

Soil boundary; clear, transition zone is between 2.5 and 6 cm thick.

Soil boundary; gradual, transition zone is between 6 and 12.5 cm thick.

FAULT: solid line where well defined; dashed where less distinct; dotted where inferred; bold numbers indicate strike and dip of fault plane; small numbers indicate stratigraphic separation in cm; arrows indicate sense of displacement.

NOTES:

n1 Zone of deformed and disturbed lake deposits (unit 1); contains numerous shears, rotated blocks of unit 1c, and animal burrows; calcareous, grades into soil 1b.

n2 Fragment of soil 1b in colluvium (unit 4).

n3 Pods of calcium-carbonate cemented fan deposits along fault.

LOCATION AND NUMBER OF C14 samploes

DISTANCE FROM MAIN FAULT (meters)

VERTICAL SCALE = HORIZONTAL SCALE

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LOG OF TRENCH LC-2
Little Cottonwood Canyon Site

Figure 8