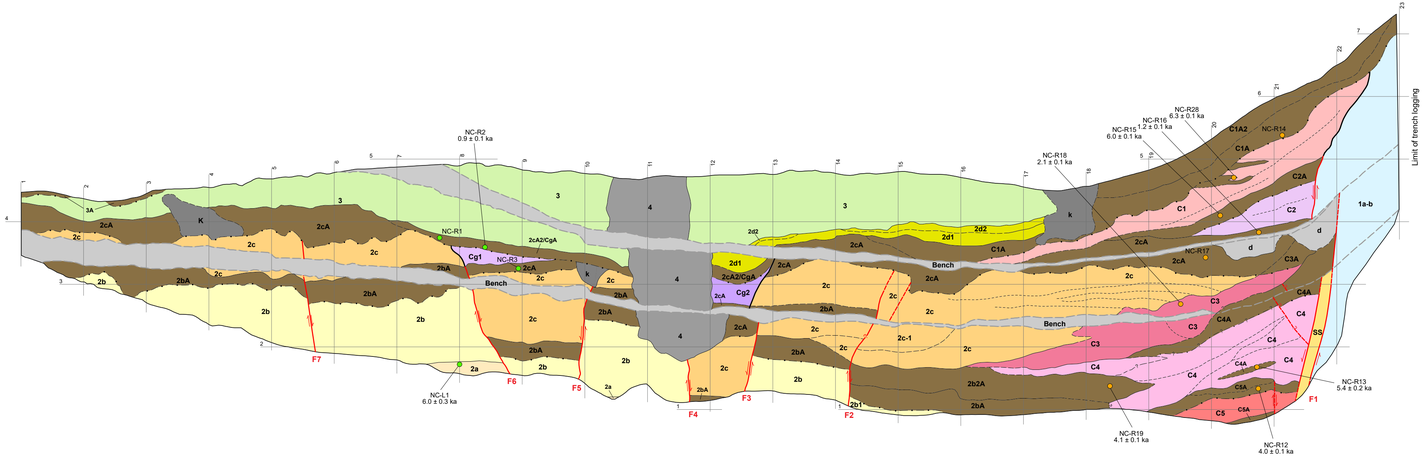
UTAH GEOLOGICAL SURVEY
a division of
Utah Department of Natural Resources

Plate 4
Utah Geological Survey Special Study 159
Holocene Surface-Faulting Earthquakes on the Nephi Segment of the Wasatch Fault Zone



South Wall of the North Creek Trench (Mirror Image)
horizontal and vertical distances in meters

Explanation

- Contact; dashed where indistinct; queried where inferred; blue color indicates distinct marker bed
- Intra-unit bedding
- Base of A horizon, dashed where indistinct
- Eroded fault-scarp free face; dashed where indistinct
- Fault; arrows indicate direction of relative movement; dashed where indistinct; fault label (e.g., F2) corresponds with text
- NC-R21 0.3 ± 0.2 — Charcoal extracted from bulk A-horizon sediment and submitted for radiocarbon (^{14}C) analysis; age is mean and 2σ range in thousands of calendar years before 1950.
- NC-R19 4.1 ± 0.1 — Charcoal sample for ^{14}C dating; age is mean and 2σ range in thousands of calendar years before 1950.
- K — Infilled burrow (krotovina)
- d — Sediment disturbed during trench excavation

- A — Soil A horizon (e.g., 2bA, C1A)
- SS — Sheared sediment

Hanging-Wall Alluvial-Fan Sediments

- 4 — Cultural fill (Hanson and others [1981] trench)
- 3 — Historical debris flow
- 2d — Stream and debris-flow deposits
- 2c — Stream deposits (well-sorted gravel)
- 2b — Stream and debris-flow deposits
- 2a — Silt (loess)

Scarp-Derived Colluvium

- C1 — Scarp colluvium (earthquake NC1)
- C2 — Scarp colluvium (earthquake NC2)
- C3 — Scarp colluvium (earthquake NC3)
- C4 — Scarp colluvium (earthquake NC4)
- C5 — Scarp colluvium (earthquake NC5)
- Cg1 — Hanging-wall colluvial wedge (fault F6)
- Cg2 — Hanging-wall colluvial wedge (faults F3 and F4)

Footwall Alluvial-Fan Sediments

- 1c — Stream and debris-flow deposits
- 1a-b — Stream and debris-flow deposits

STRATIGRAPHIC AND STRUCTURAL RELATIONS IN THE SOUTH WALL OF THE NORTH CREEK TRENCH