2484S, WAH WAH VALLEY (WEST SIDE) FAULTS

Structure number: 2484S.
Comments: Hecker's (1993) fault number 9-26. Suspected.
Structure name: Wah Wah Valley (west side) faults.
Comments:
Synopsis: Poorly understood, possible middle to late Pleistocene faults on the west side of Wah Wah Valley.
Date of compilation: 10/99.
Compiler and affiliation: Bill D. Black (Utah Geological Survey) and Suzanne Hecker (U.S. Geological Survey).
State: Utah
County: Beaver.
1° x 2° sheet: Richfield.
Province: Basin and Range.
Reliability of location: Good.
Comments: Mapped or discussed by Anderson and Bucknam (1979) and Ertec Western, Inc. (1981). Mapping from Ertec Western, Inc. (1981).
Geologic setting: Short, generally northwest-trending zone of faulting on the western side of Wah Wah Valley. The area is in the Confusion Basin of southwestern Utah, a Paleozoic center of deposition. Mountains in the basin are comprised almost exclusively of sedimentary rocks; valleys contain lake deposits and alluvium.
Sense of movement: N.
Comments:
Dip: No data.
Comments:
Dip direction: NE
Geomorphic expression: Springs coincide with the fault zone. A height of 6 meters was measured for one of the scarps. The scarps were not included in mapping by Anderson and Bucknam (1979), and may be the result of liquefaction and lateral spreading rather than faulting (B.A. Schell, written communication to Suzanne Hecker, 1991).
Age of faulted deposits: Middle to late Pleistocene.
Paleoseismology studies: None.
Timing of most recent paleoevent: (4) Middle and late Quaternary (<750 ka).
Comments:
Recurrence interval: No data.
Comments:
Slip rate: Unknown, probably <0.2 mm/yr.
Comments:
Length: End to end (km): 2
Cumulative trace (km): 6
Average strike (azimuth): N3°7W

REFERENCES

Anderson, R.E., and Bucknam, R.C., 1979, Map of fault scarps in unconsolidated sediments, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Open-File Report 79-1236, 15 p., scale 1:250,000.

Ertec Western, Inc., 1981, MX siting investigation, geotechnical evaluation, verification study - Wah Wah Valley, Utah, volume I - synthesis: Long Beach, California, unpublished consultant's report no. FN-TR-27-WA-I for U.S. Air Force, 46 p.

Hecker, Suzanne, 1993, Quaternary tectonics of Utah with emphasis on earthquake-hazard characterization: Utah Geological Survey Bulletin 127, 2 plates, scale 1:500,000, 257 p.