QUATERNARY
TERTIARY
CRETACEOUS

Opa Pediment and alluvial-fan deposits. Grayish-orange, tan and gray-brown granular muddy coarse sand and sandy gravel in small fans, bajadas, and minor pediment veneers.

Oal Alluvial-plain deposits of Eagle Valley. Yellowish-brown to gray, unbedded to poorly bedded, poorly to moderately sorted, fine silty sand, sandy silt, granular muddy coarse sand, and minor sandy gravel. Underlies broad surfaces of low gradient.

Oa Alluvial-plain deposits of Washoe Valley. Tan to orange-brown, moderately to poorly bedded, angular to subrounded, fine to coarse granodioritic sand. Underlies gentle slopes and broad areas of low gradient. Fills closed depressions in high-land areas. Unweathered.

Old Lake deposits. Tan to yellowish-brown, well-bedded silt and sand; restricted to the margins of Washoe Lake.

Qs Landslide deposits. Unsorted fine to coarse debris. Predominantly deeply weathered granodiorite.

Ql Sand dunes. White to light-gray, well-sorted, well-rounded quartz and feldspar grains with minor shell fragments. Moderately well developed cross bedding.

Of Artificial fill.

Oof Older fan deposits of Vice Canyon. Medium-brown to light-brown, moderately to poorly sorted sandy large cobble gravel and slightly gravelly medium sand. Weathered. Moderately well-developed soil profiles.

Oop Older pediment gravel. Grayish-orange to dark yellow-brown small cobble to muddy sandy pebble gravel. Composition similar to nearby bedrock. Deposits slightly eroded, weakly to moderately weathered.

Ooa Older alluvial-plain deposits. Moderately sorted, sandy small cobble gravel, slightly gravelly sand and sandy coarse silt. Similar to Oop but finer grained. Weakly to moderately weathered.

Oal Old lake deposits. Grayish-brown fine to coarse sand and silt in thin beds. Locally diatomaceous.

QTB Basaltic andesite flow. Light greenish gray, sparsely porphyritic, very fine grained, locally flow banded. Orange-red iron-oxide stains on weathered surface.

QTg Pediment gravel. Yellowish-gray to light-brown bouldery sandy cobble gravel. Most clasts subrounded and consist of all bedrock lithologies.

Tau Andesite, undifferentiated. Dark-gray to light-gray flows and intrusives; porphyritic to sparsely porphyritic plagioclase-pyroxene andesite. Some flows contain hornblende phenocrysts up to 1 cm. Weathers gray brown to red brown.

Tst Santiago Canyon Tuff. Hornblende-biotite quartz latite crystal-vitric ash-flow tuff. Gray to pale lavender or brownish gray, moderately to strongly welded, and largely devitrified. About 300 m thick.

Tct Crystal Tuff. Tct: Pinkish white to light red, weakly welded, devitrified, crystal-vitric rhyolite tuff. Contains chertovant sandstone. 0-120 m thick. Tcg: Underlying bouldery cobble gravel.

Teg Eureka Canyon Tuff. Tct: Pale yellowish-white to pale-gray, lavender, and tan rhyolite vitric tuff. Pale yellowish white, devitrified, and weakly welded in most exposures. 0-130 m thick. Teg: Underlying interformational bouldery gravel.

Tnt Nine Hill Tuff. Pale orange-red, pale green, and reddish-purple densely welded to stretched, devitrified, very pumaceous vitric tuff. Grades upward into weakly welded to non-welded, pumice-poor vitric tuff. 0-300 m thick.

Tlt Lenihan Canyon Tuff. Tlt: Pale-lavender to purplish-tan, moderately to densely welded, devitrified, fine-grained hornblende quartz latite crystal-vitric tuff. 0-300 m thick. Tlg: Underlying interformational bouldery gravel.

Tmt Mickey Pass Tuff. Tan to reddish-brown, moderately to strongly welded, devitrified biotite quartz latite vitric-crystal tuff. Grades downward into a basal few meters of rhyolitic crystal-rich vitrophyre and upward into pumice and crystal-rich rhyolite. 0-200 m thick.

Ka Granite aplite. Yellowish-tan to pinkish-tan, very fine-grained and homogeneous aplite. Occurs locally as veins in Kgd.

Kgd Hornblende-biotite granodiorite. Grayish white to gray and greenish gray, medium- to coarse-grained, equigranular to porphyritic, and locally foliated and lineated. Locally grades into quartz monzonite or quartz diorite.

JKgd Porphyritic quartz diorite. Grayish-green; plagioclase and hornblende phenocrysts in a fine-grained matrix. Slightly metamorphosed.

Jd Dacite porphyry. Pale greenish-gray, fine-grained dacite to quartz latite porphyry. Composed of small euhedral plagioclase phenocrysts set in a fine-grained flinty matrix; small quartz phenocrysts occur locally.

Jp Phyllite. Dark gray-brown andalusite phyllite and slate.

Rfs Felsic schist, undifferentiated. Gray-white to pale bluish-gray, siliceous, fine-grained, dense and flinty flaser schist and banded flaser gneiss. Rocks in this group represent metamorphosed rhyodacitic/andesitic tuffs, welded tuffs, and breccia.

Rmu Mafic metavolcanic rocks, undifferentiated. Grayish-green to greenish-black, fine-grained, sparsely porphyritic, dense and hard metamorphosed mafic andesite flows and volcanic breccia; locally epidote-rich. Includes small, shallow intrusive masses of andesite porphyry and fine-grained diorite.

Contact Long dashes where approximately located; short dashes where inferred; dotted where concealed.

Fault Dashed where approximately located; dotted where concealed. Ball on downthrown side.

Foliation Schistosity in metamorphic rocks; compaction foliation in ash-flow tuffs.

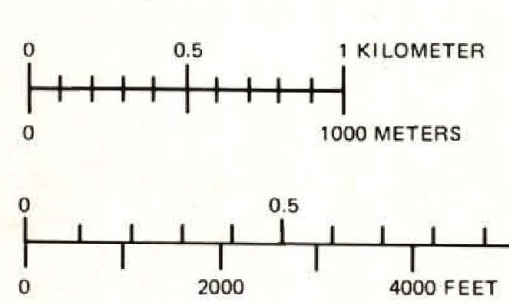
Joints Vertical. Vertical. Vertical.

Dennis T. Trexler, 1977

Portions modified from Rogers, D. K. (1976) Environmental geology of northern Carson City, Nevada: Univ. of Nevada, Reno, unpub. M.S. thesis and Kirkham, R. M. (1976) Environmental geology of western Carson City, Nevada area: Univ. of Nevada, Reno, unpub. M.S. thesis.

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Scale 1:24,000

CONTOUR INTERVAL 40 FEET
DOTTED LINES ARE 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVELTopographic base from U. S. Geological Survey Carson City 7 1/2' quadrangle, 1988
Cartography by Susan L. NicholsNEVADA BUREAU OF MINES AND GEOLOGY
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