

Geologic Legend



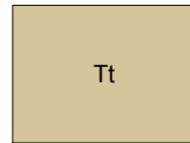
Qls landslide



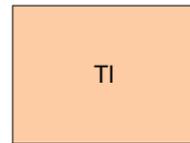
Qal recent deposits (undifferentiated) -- alluvium, colluvium, terrace and fan deposits, dredge tailings and fill.



Cg gravels -- bedded and flat-lying conglomerate, sand and silt. The conglomerate is weakly cemented, matrix is reddish-brown, clasts are mostly locally derived metamorphic, intrusive and volcanic rocks. The sand and silt is often cross-bedded and lenticular.



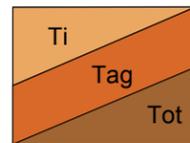
Tt Tuscan Formation - gently dipping basaltic to andesitic flows, mudflow breccia, tuff, volcanic sandstone and conglomerate.



Ti Lovejoy Formation -- gently dipping, dark, fine-grained olivine basalt.



Mi intrusive rocks -- medium to coarse grained diorite, granodiorite and trondhjemite in plutons, dikes and plugs.



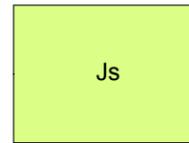
lone Formation -- bedded and gently dipping, buff to reddish, quartz-rich sandstone, claystone and siltstone, plus minor conglomerate, shale and lignite. Tag: "Auriferous Gravel" member -- white quartz and chert-rich pebble conglomerate, quartz-rich sandstone, siltstone and relict ash. Tot: "Oroville Tuff" member -- bedded, white to buff, andesitic mudflow, tuff, volcanic sandstone and minor conglomerate.



Kc Chico Formation -- well bedded, brown to buff, fossiliferous arkose with minor pebble conglomerate.



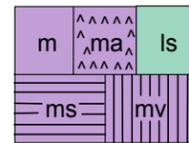
Jm Monte de Oro Formation -- well bedded, steeply dipping, dark buff to gray, foliated, slightly metamorphosed, fossiliferous graywacke and minor conglomerate.



Js Smartville ophiolite -- dark gray to green gray, steeply-dipping, strongly foliated, metamorphosed, basaltic to diabasic volcanoclastic sediment, pillow lava, breccia, dikes and sills; gabbroic to felsic screen rocks occur within sheeted dikes; gabbroic plugs are rare.



Ja arc complex rocks -- Ja^V: dark to light blue green, poorly foliated, metamorphosed, andesitic to basaltic agglomerate, tuff breccia and tuff. Ja^S: dark, well foliated, metamorphosed argillite and graywacke.



melange -- m: undifferentiated. m^V: metavolcanic rock, dark, fine-grained, basaltic flows (?) m^A: metavolcanic rock (arc derived) dark to light blue green, slightly metamorphosed andesitic agglomerate and tuff breccia. m^S: metasedimentary rock, dark to light colored, strongly foliated slate, phyllite, graywacke, conglomerate, plus minor chert and marble. ls: limestone.



sp serpentine -- dark to light green, highly sheared, commonly associated with faults; includes minor metagabbro.

----- contact - dashed where approximately located, dotted where concealed.

----- fault - dashed where approximately located, dotted where concealed.

-?- -?- fault - questioned

----- Cenozoic faults shown in red.

▲----- thrust fault - dashed where approximately located, teeth on upper plate.

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

**Oroville Facilities Relicensing
FERC Project No. 2100**

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Geologic Legend
Appendix A
Geologic Map of
Lake Oroville Area

Prepared by: AMG_DWR Northern District Date: 2/08/03 ND109 D:/projects/ferc_geology/geology/geology_legend