Sedimentary rocks

Landslide deposits (Holocene and Pleistocene)

Lake deposits (Holocene and Pleistocene)

dated silt, sand, and gravel along creeks

lar bedrock and (or) surficial material transported down slope en

bulbous toes, and hummocky, poorly drained surfaces. Large slides

smaller slides developed in weakly consolidated Neogene sedimen

Columbia River Gorge spread out in Portland Basin and deposited

17,000 and 13,000

inferred largely from well logs, which indicate thickness of unit in

Mountain. Light-gray, microvesicular, generally platy lava flow,

in a fine-grained trachytic groundmass of plagioclase, clinopyrox

stitial glass; locally contains xenocrysts of plagioclase and quartz

dark grayish- to reddish-brown scoria Sample of lava flow

to 0.5 mm long; commonly in multigrain clots), and rare plagio

mass with traces of vapor-phase phlogopite. Cinder cone about 1.5

of Brunner Hill, and presumed to be of similar age

augite-microphyric basaltic andesite erupted from cinder cone at

iddingsite), greenish augite microphenocrysts (1-3 percent; 0.2 to

smoldering; may be remains of parasitic cinder cone

composed of scoriaceous, plagioclase-phyric, basaltic andesite

of Little Elkhorn is underlain by brick-red, zeolitized agglomerate

tionally rich in Fe (FeO* as high as 12.8 wt. percent) and poor in Sr

or microphyric. All flows in unit are tholeiitic, and many are excep

replaced by some combination of smectite, hematite, carbonate,

acidity in the ancestral Columbia River. Sedimentary structures suggest depo

rapidly transported downstream and redeposited in eastern Portland

interbedding with conglomerate, and mixing with nonvolcanic

during interaction of basaltic lava with water; cross-stratification,

increases to southwest and may exceed 50 m. Typical sandy beds

the type area of the Troutdale Formation along the Sandy River in

conglomeratic beds locally abundant. Crops out on northern shores

well consolidated conglomerate and sandstone. Divided into two

Cataclysmic flood deposits

Local unconformity?

Unconformity

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