

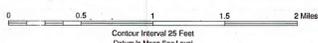


LIQUEFACTION POTENTIAL EXPLANATION

ZONE	LIQUEFACTION SUSCEPTIBILITY	GEOLOGIC UNIT	WATER TABLE (FEET)	PERCENT OF SPT-N-VALUES BELOW THRESHOLD CRITERIA	PERCENT OF BORINGS WITH 10 FEET OF LIQUEFACTION (THICKNESS CRITERIA)	REMARKS
High	High	Fill - Duwamish Tidelands, Interbay	High (<10)	>50	>50	Typical liquefaction depths of 20 to 30 feet for M = 7.5 event. Locally very high hazard within 200 feet of open bodies of water.
Moderate	Moderate	Holocene Alluvium, Holocene Beach	High (<10 to 15)	25 to 50	25 to 50	Typical liquefaction depths of 10 to 20 feet for M = 7.5 event. Locally high hazard within 200 feet of open bodies of water. Beach deposits have low to moderate liquefaction potential.
Low	Low	Pleistocene Alluvium	Variable/Perched (10 to 40)	10 to 25	<25	Generally high SPT values combined with low ground water which results in low potential.
Very Low	Very Low	Pleistocene Glacially Consolidated Sediments and Bedrock	Variable/Perched (10 to 40)	<10	<10	Liquefaction unlikely due to material composition (includes clays) and high density.

¹ Based on Threshold Earthquake with 475-year return interval (PGA=0.30g; M=7.5).

² Base map taken from USGS metric topographic quadrangles, Seattle, North and South (1983).



LIQUEFACTION POTENTIAL MAP
SEATTLE, WASHINGTON

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NOTE

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