



Air Diffusion Tests under Lateral Vibration

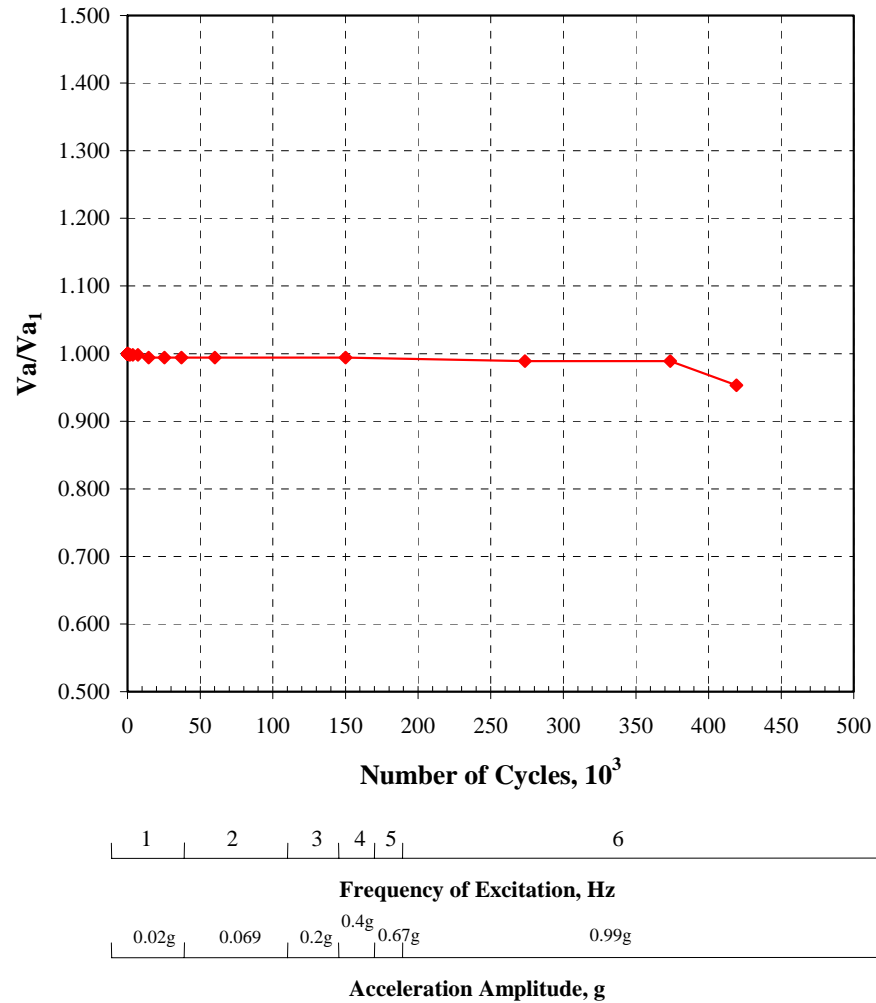
NSF Project: Liquefaction
Mitigation Using Entrapped Air
(Award #:CMS-0509894)

Test Setup



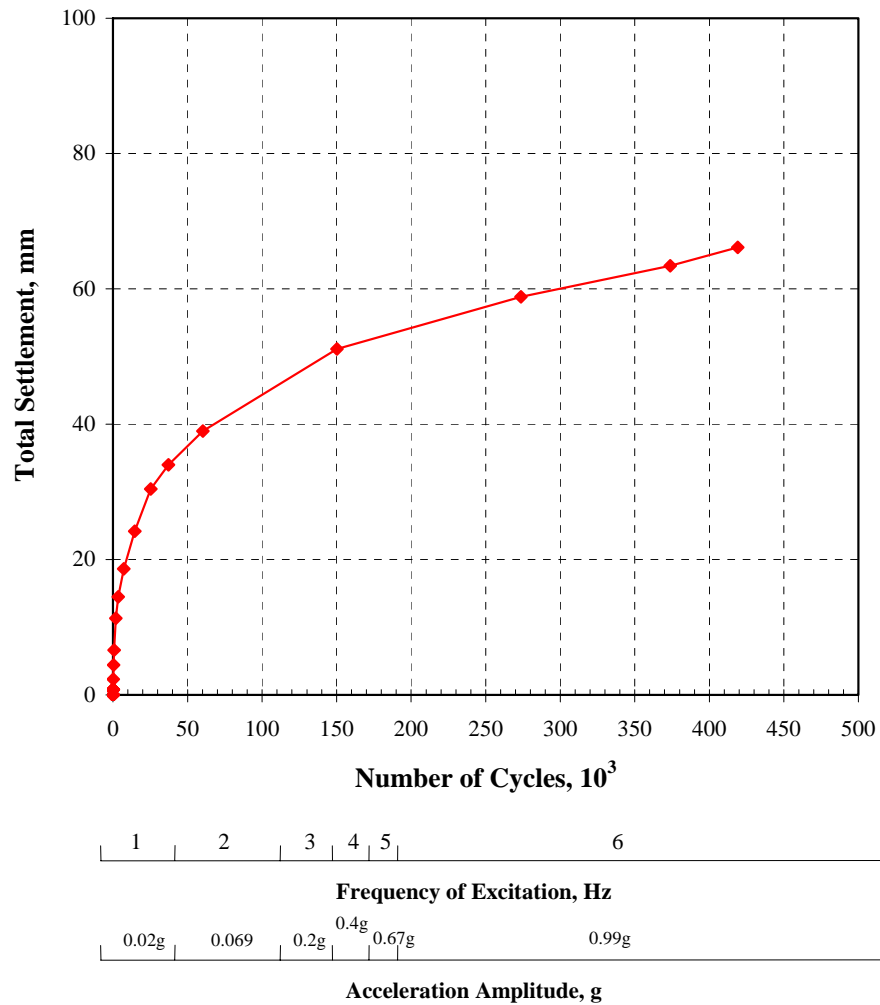
Typical Test Results

Ratio of Air Volume in the Specimen to the Initial Air Volume



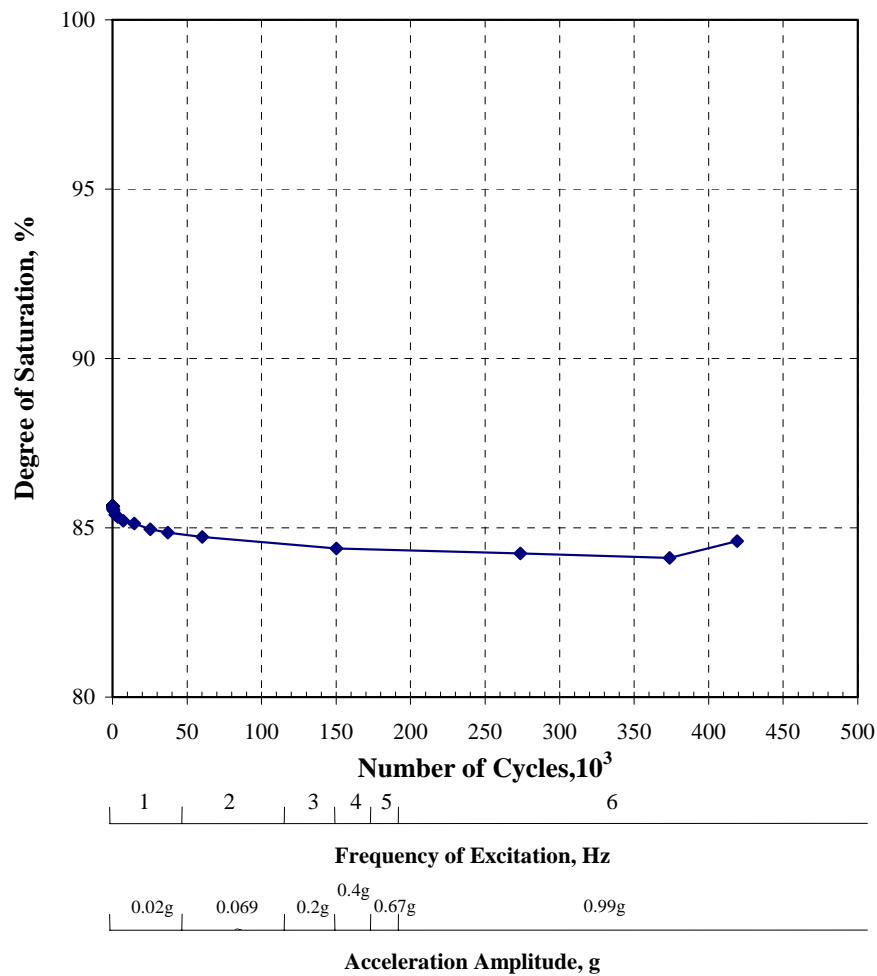
Typical Test Results

Settlement of Air Entrapped Ottawa Sand Specimen under Lateral Vibration



Typical Test Results

Variation of Degree of Saturation for Air Entrapped Ottawa Sand Specimen under Lateral Vibration



$e_i = 0.72$ $e_f = 0.64$
 $S_i = 85.7\%$ $S_f = 84.61\%$