

M84 – 84<sup>th</sup> Ave SE, Mercer Island, WA – Mercer Island Vibroseis Experiment – 2006

The USGS Earthquake Hazards Program collected P-wave vibroseis data along middle of 84<sup>th</sup> Ave SE, from directly South of Interstate 90 to approximately SE 39<sup>th</sup> St, on Mercer Island, western Washington, as part of an earthquake hazards study. The profile trended North to South. Light traffic persisted throughout acquisition, along with very light rain.

Data were acquired with a “minivib III” seismic vibrator using a linear sweep of 20-160 Hz over 12 seconds followed by 2 seconds of “listen” time (total record length=14 seconds). The sample interval was 2 milliseconds. Geophones were single, 8-Hz vertical component sensors installed every 5m along the seismic profile. The source point interval was 5m. Number of channels per record was 144 for field files 3001-3025, and 168 channels per record 3026-3228. Other acquisition parameters are noted in the observer’s log file. Data are unstacked and uncorrelated. Station location information is in the SEG Y file headers. The coordinates are in UTM Zone 10 N with WGS84 datum.