

**CHAPTER 7 – SUMMARY AND CONCLUSIONS**

The Portable Seismic Property Analyzer (PSPA) was used at six sites in Colorado and Utah to demonstrate its applicability to the evaluation of typical asphalt-concrete pavements. To achieve this objective, each site was tested with the PSPA, representative cores were obtained, laboratory tests were carried out, and the results were analyzed.

The major findings are as follows.

- The field operation of the PSPA was practical and repeatable.
- The detrimental effects of microcracking and stripping are reflected in the PSPA moduli.
- The PSPA moduli and moduli from seismic lab tests on cores compare favorably since the two are generally within 20% of one another.
- Seismic moduli can be integrated with the lab testing to obtain a master curve that can be used in determining design moduli.

More extensive field and lab evaluation is desirable. However, this limited study demonstrates the viability of the PSPA in characterizing the AC layer at a number of sites with varying properties.

