

APPENDIX A WAVEFORM ANALYSIS FIGURES

WEST OF FOSTER ISLAND

Figure 12: Waveform Analysis of Pile 3, 10M

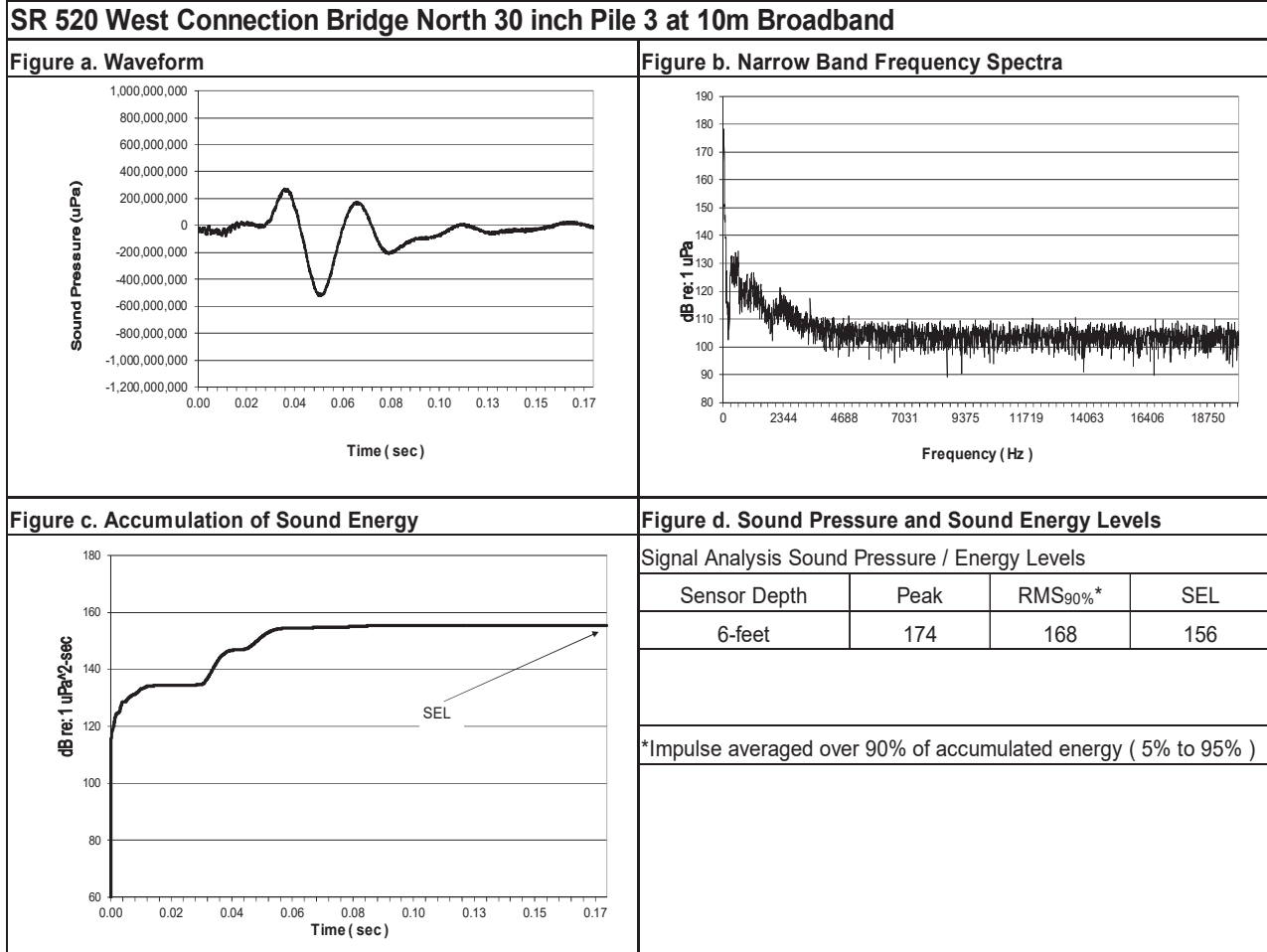


Figure 13: Waveform analysis of Pile 4, 10M

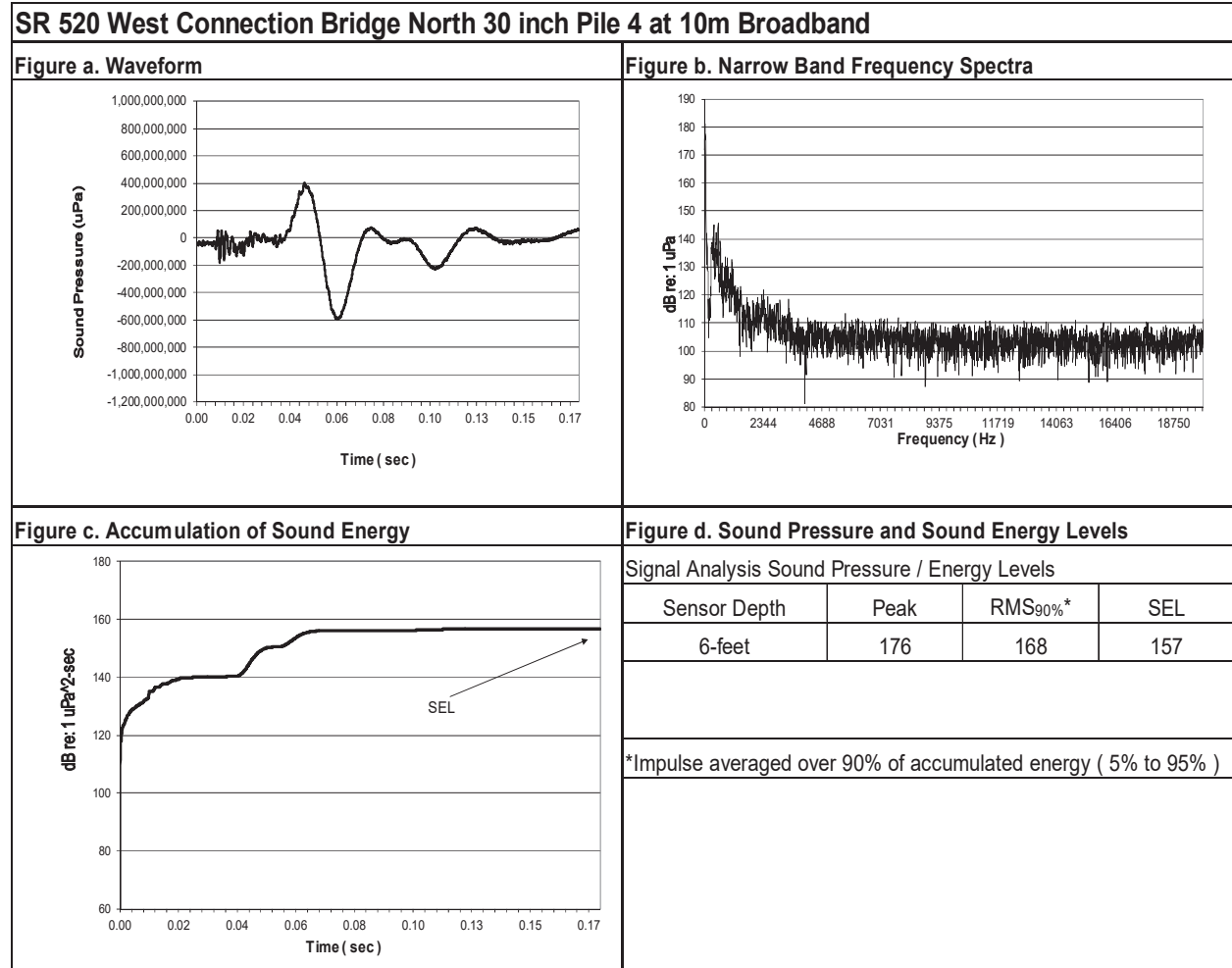


Figure 14: Waveform analysis of Pile 5, 10M

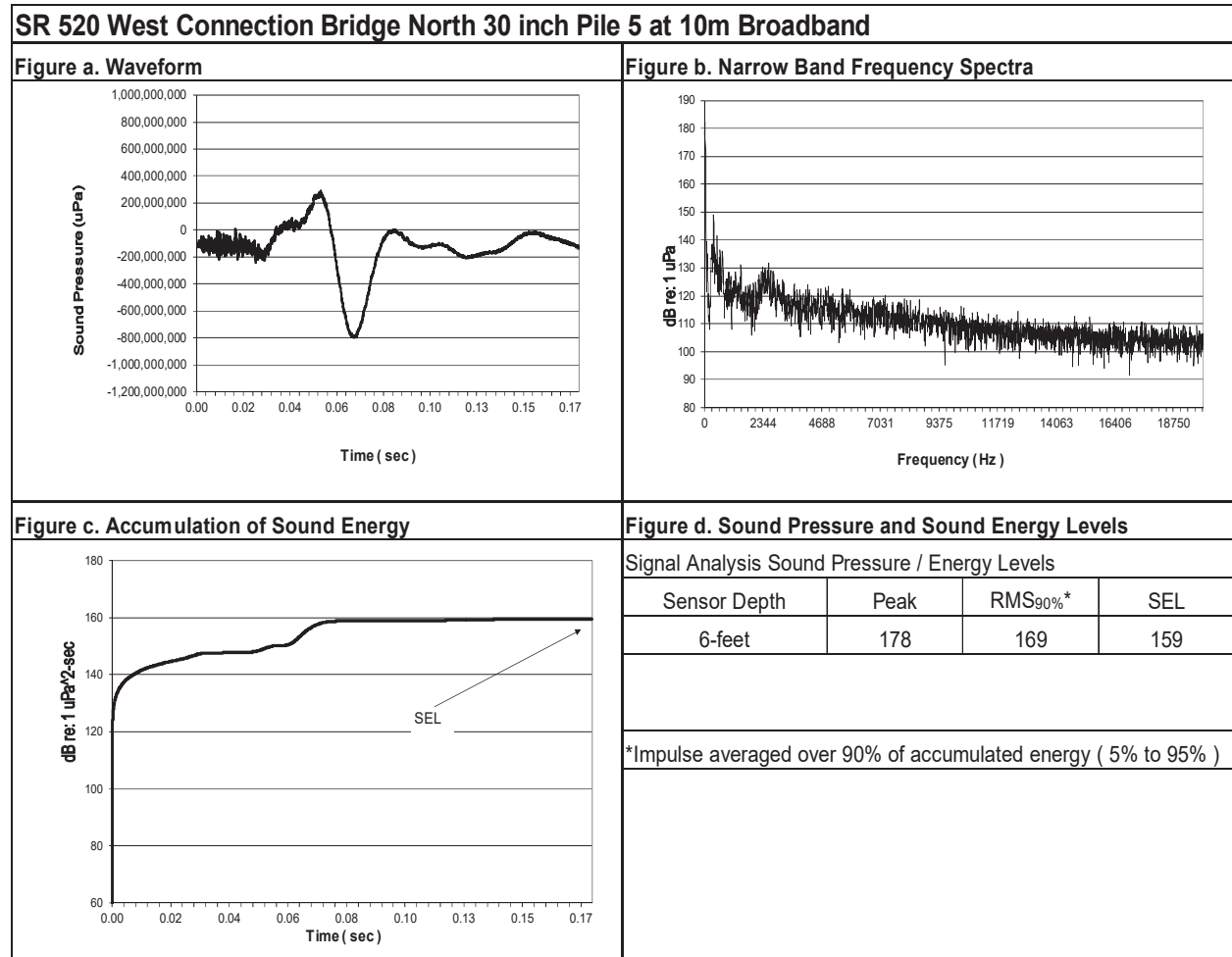


Figure 15: Waveform analysis of Pile 6, 10M

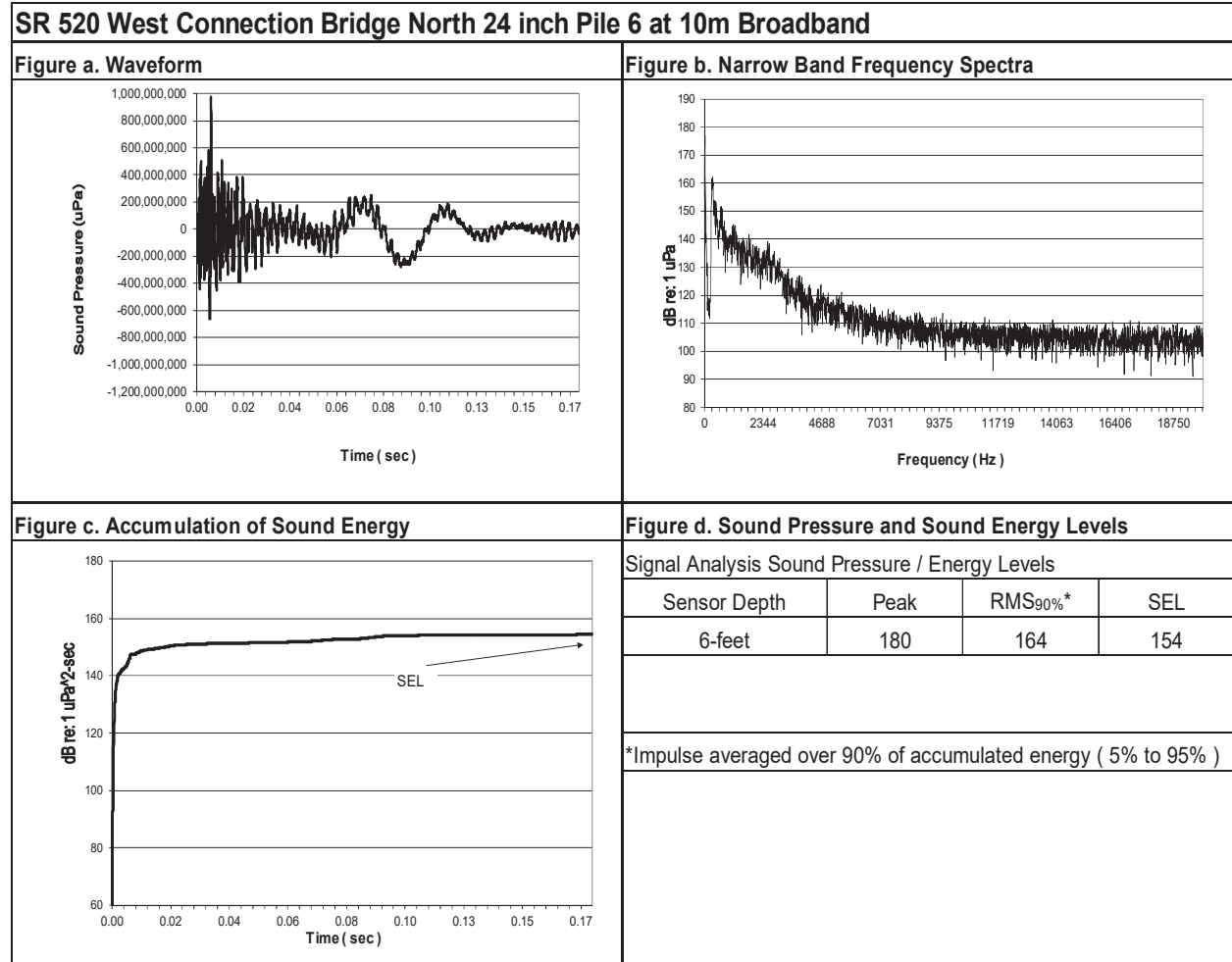


Figure 16: Waveform analysis of Pile 7(1), 10M

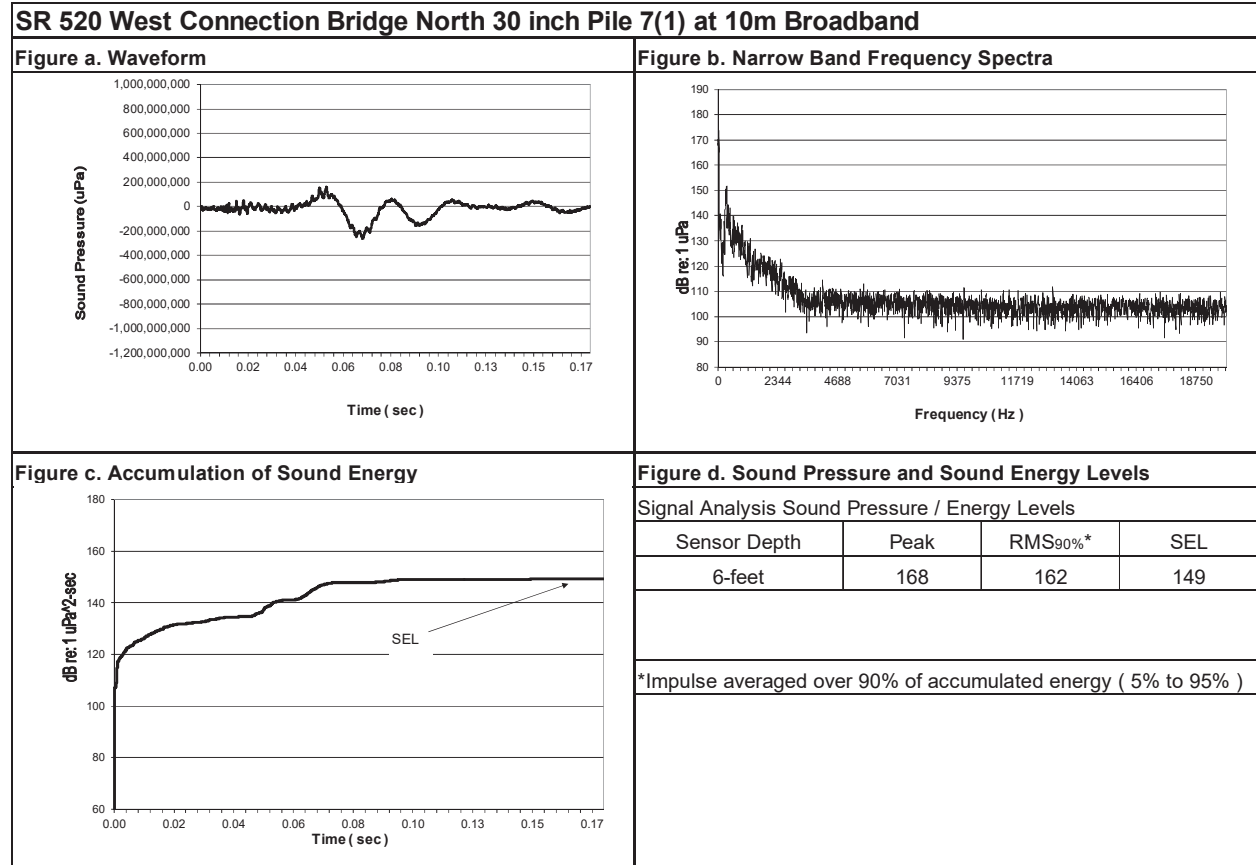


Figure 17: Waveform analysis of Pile 7(2), 10M

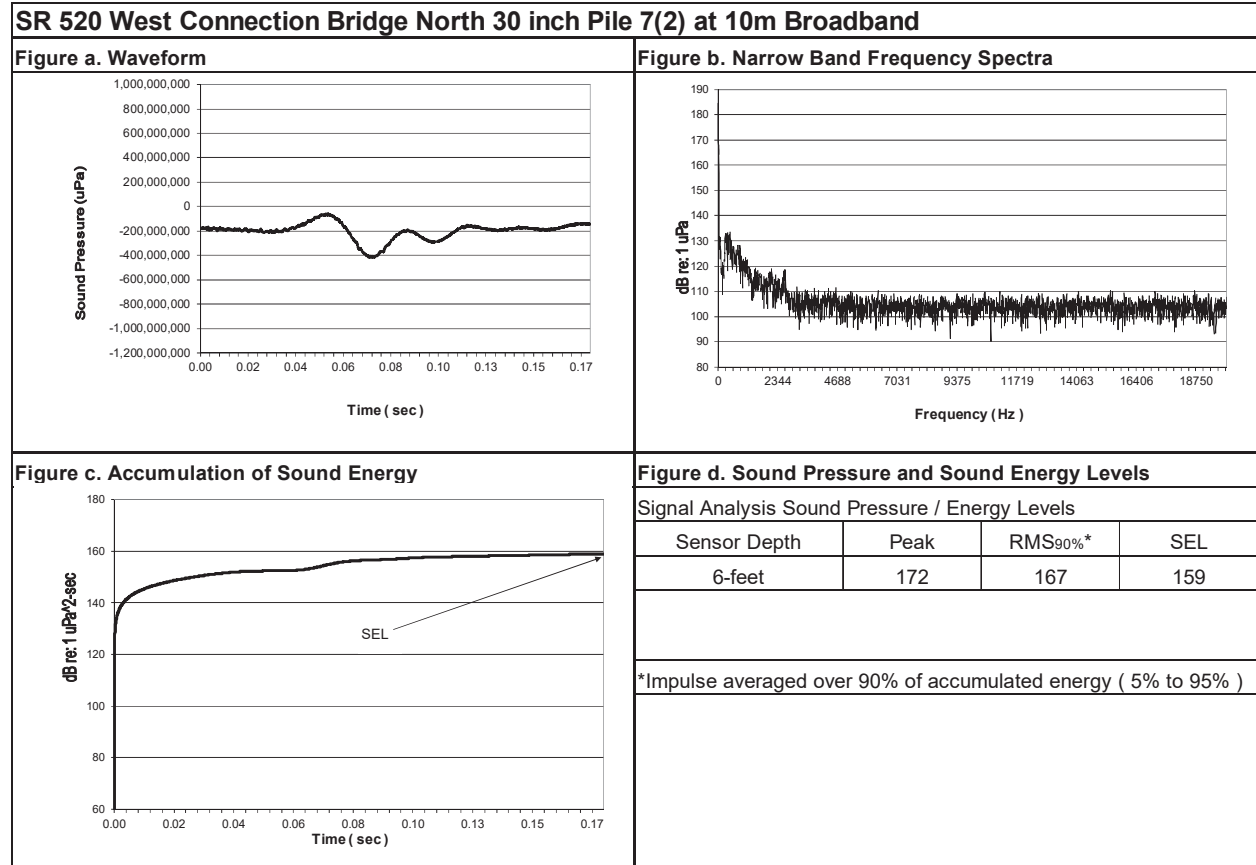


Figure 18: Waveform analysis of Pile 8(1), 11M

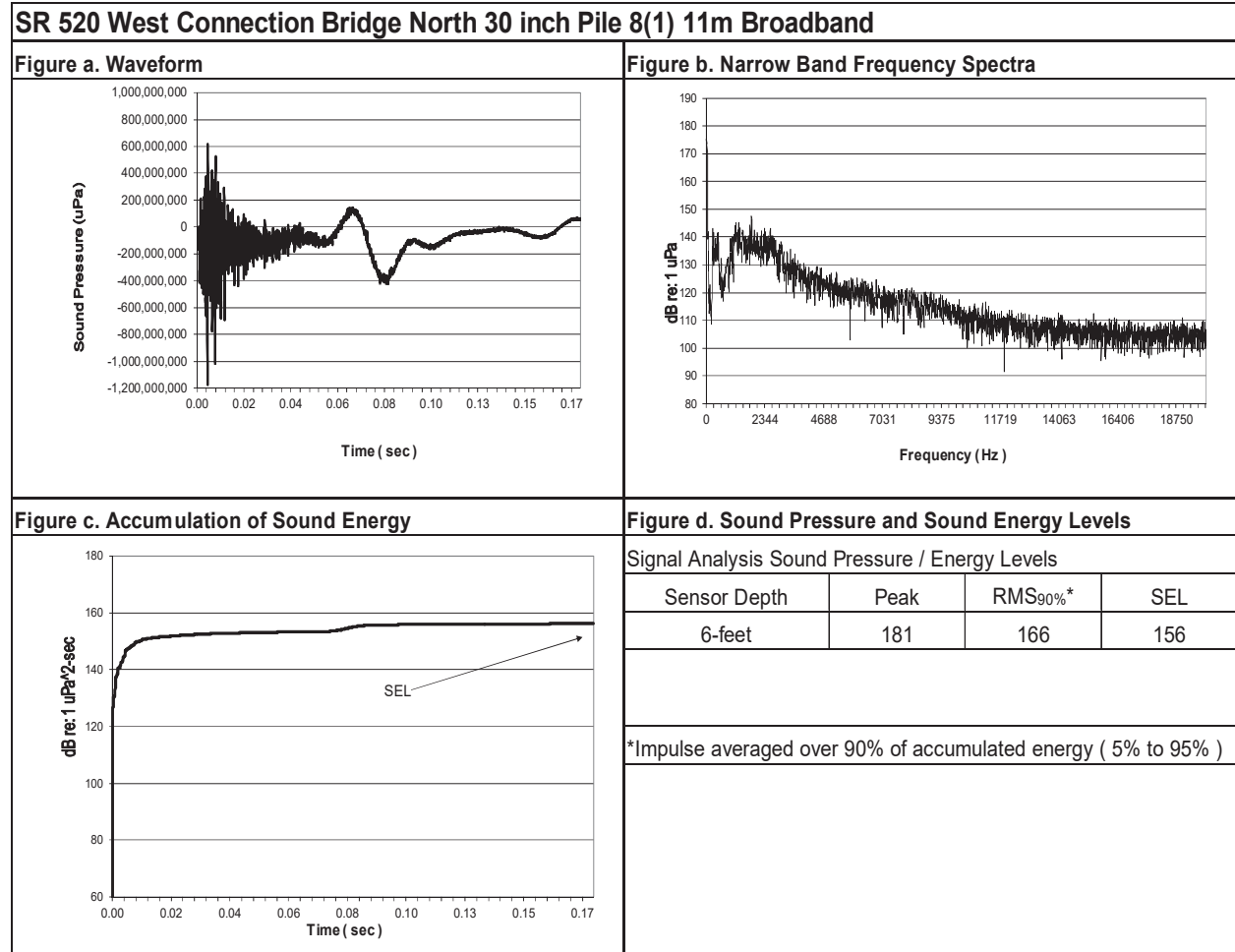


Figure 19: Waveform analysis of Pile 8(2), 11M

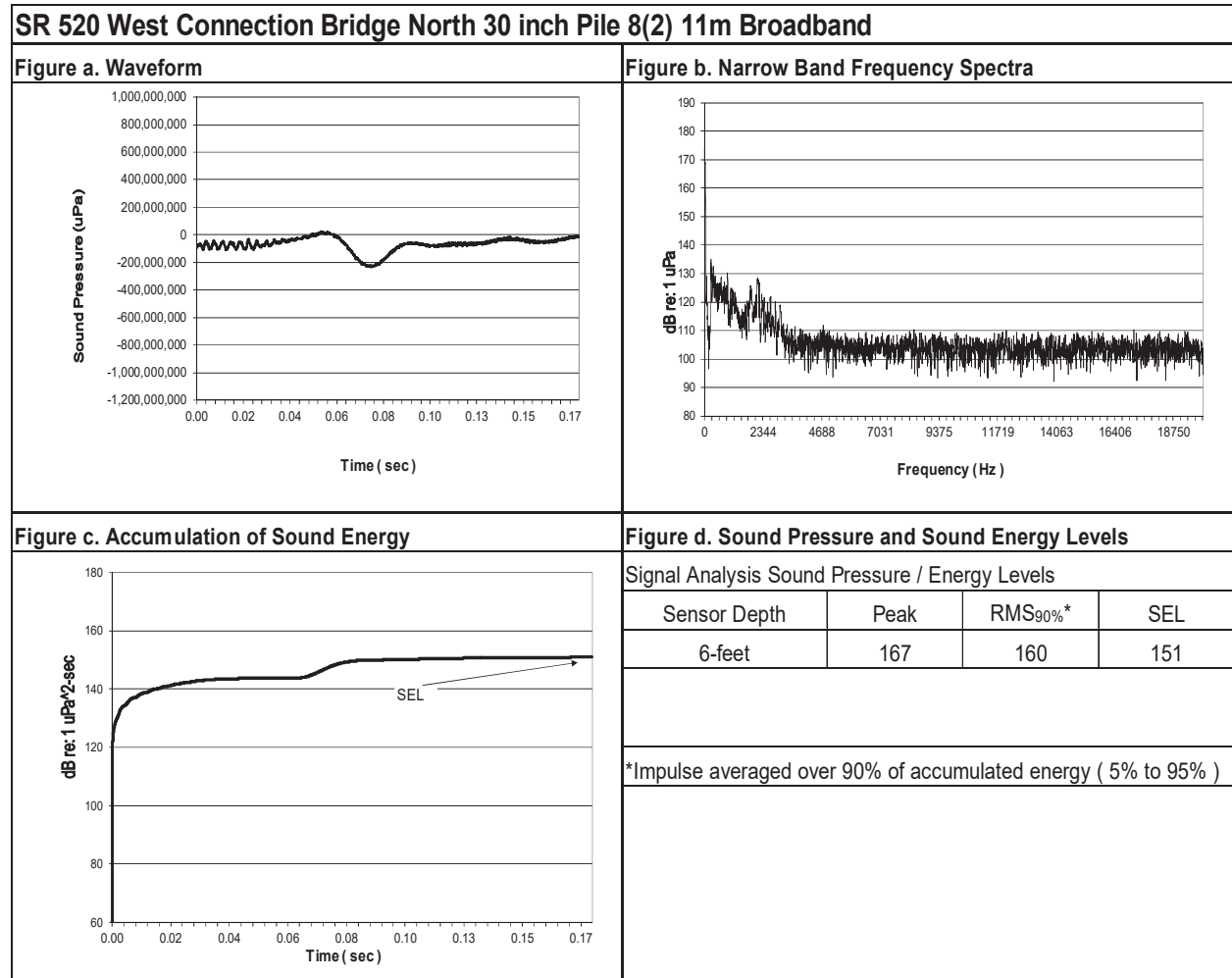


Figure 20: Waveform analysis of Pile 9(1), 12M

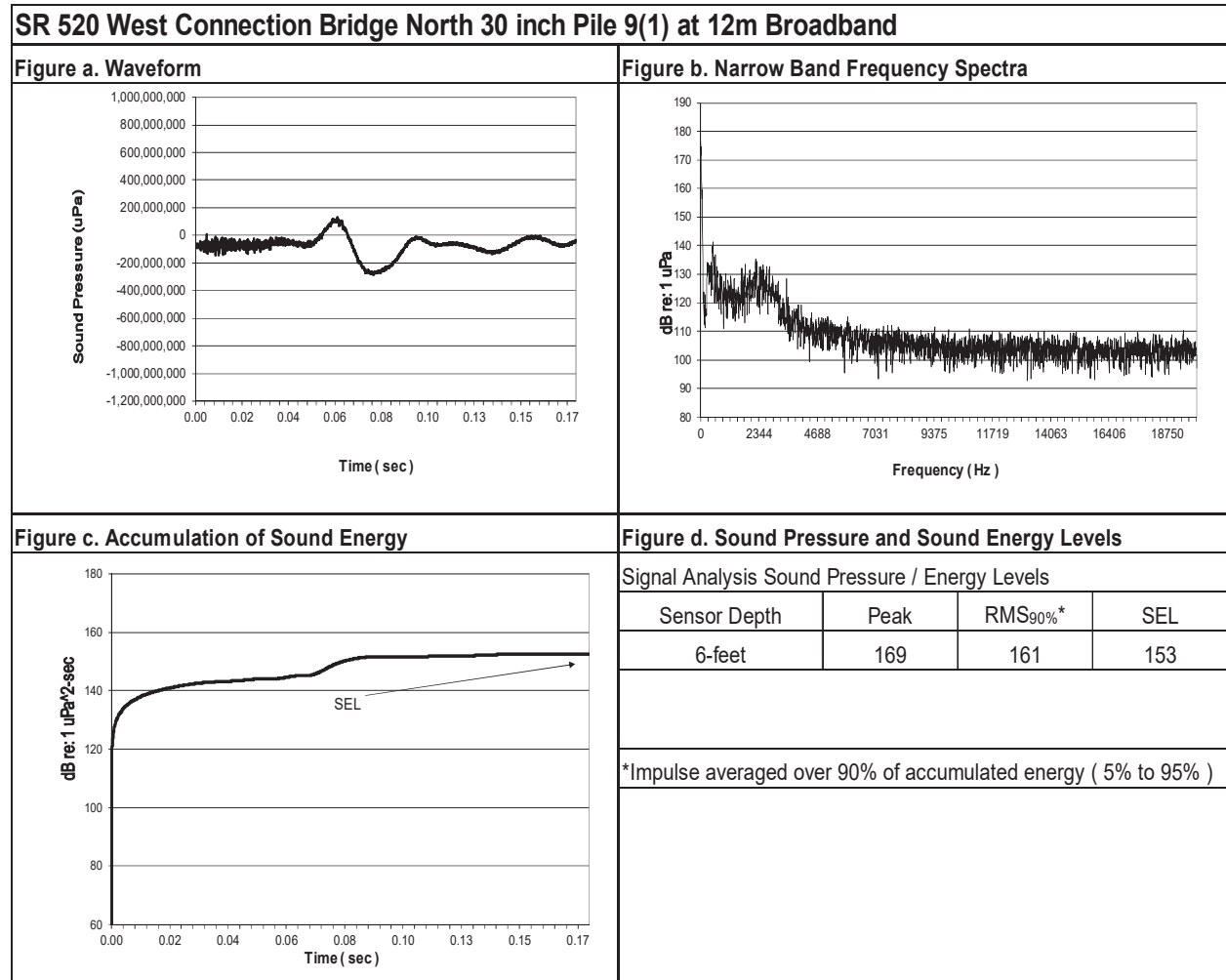


Figure 21: Waveform analysis of Pile 9(2) 12M

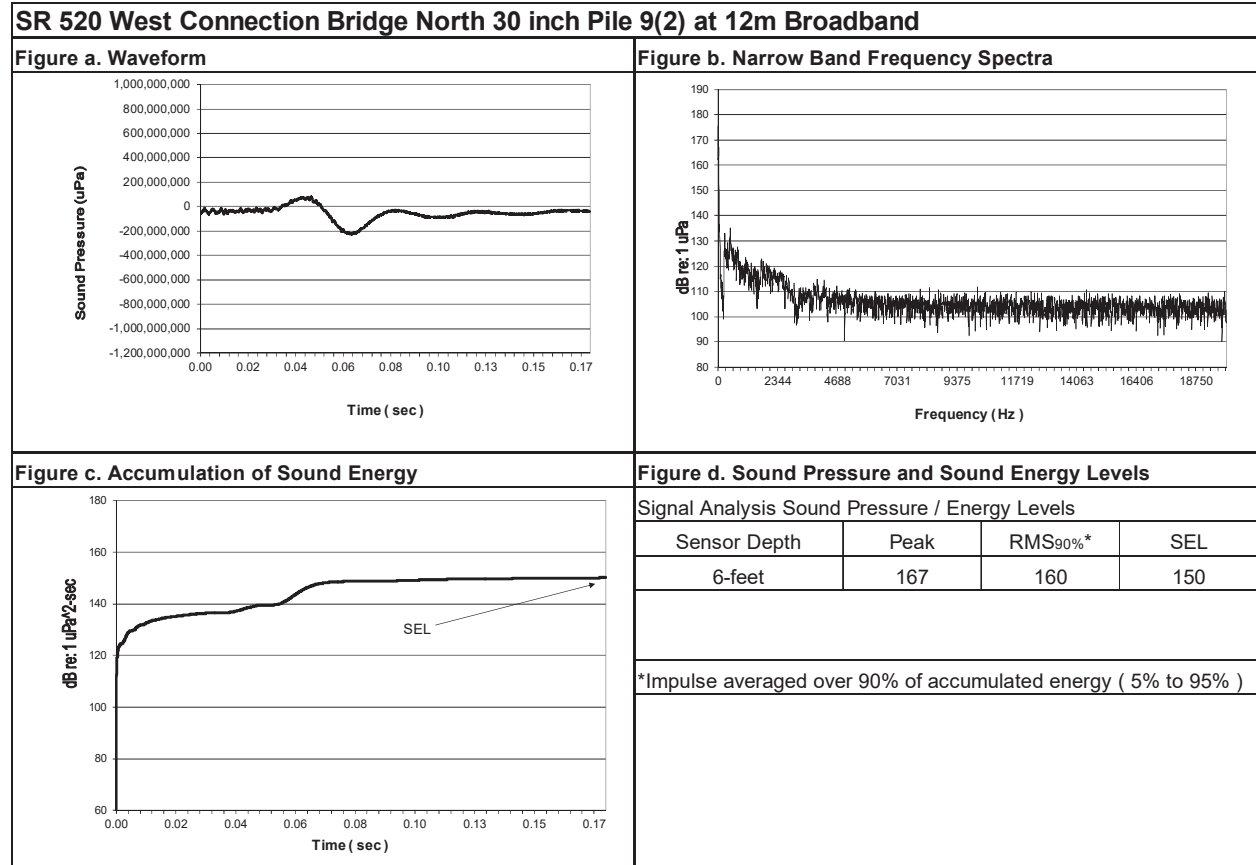


Figure 22: Waveform analysis of Pile 10, 10M

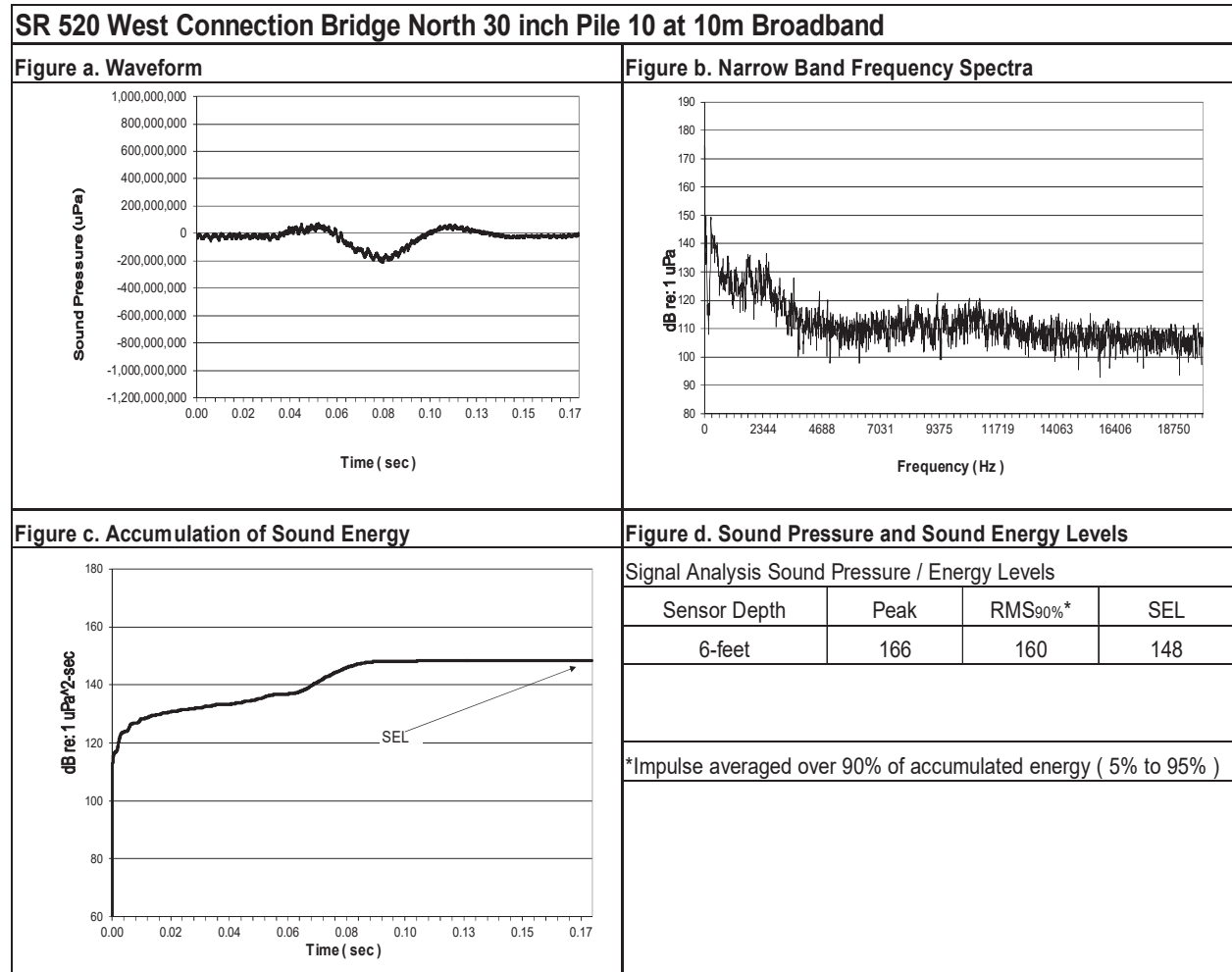


Figure 23: Waveform analysis of Pile 11, 10M

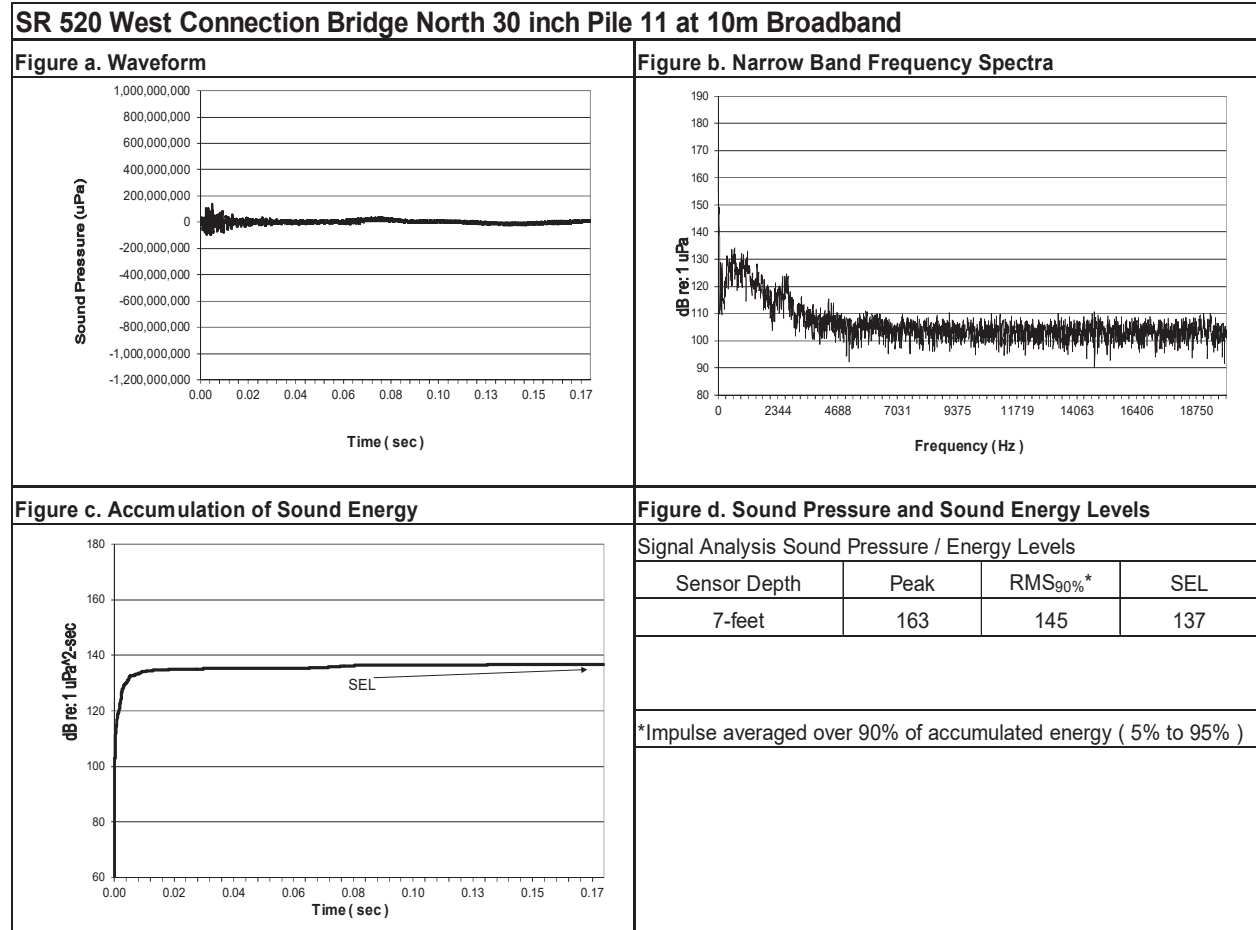


Figure 24: Waveform analysis of Pile 12, 10M

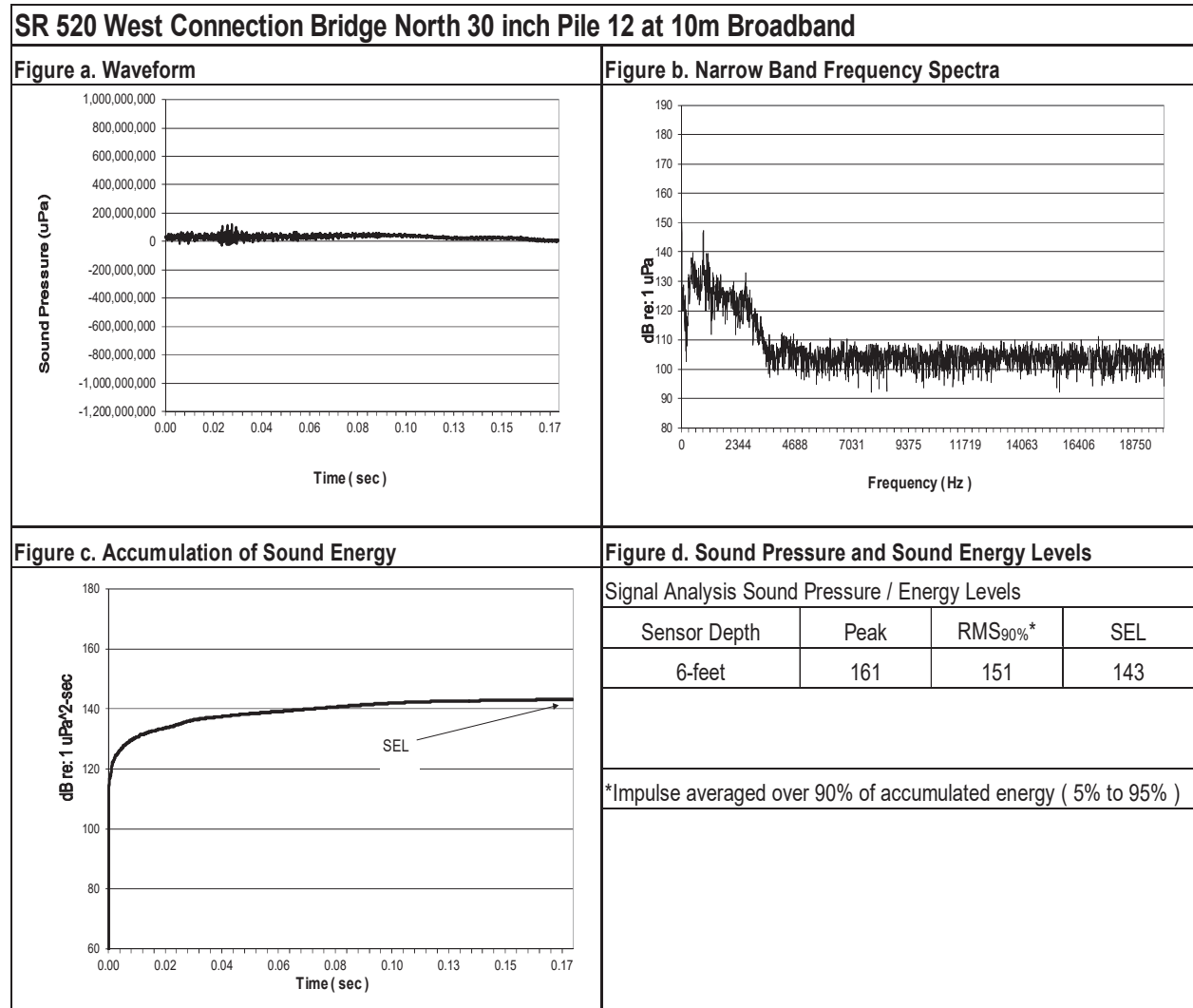


Figure 25: Waveform analysis of Pile 13, 10M

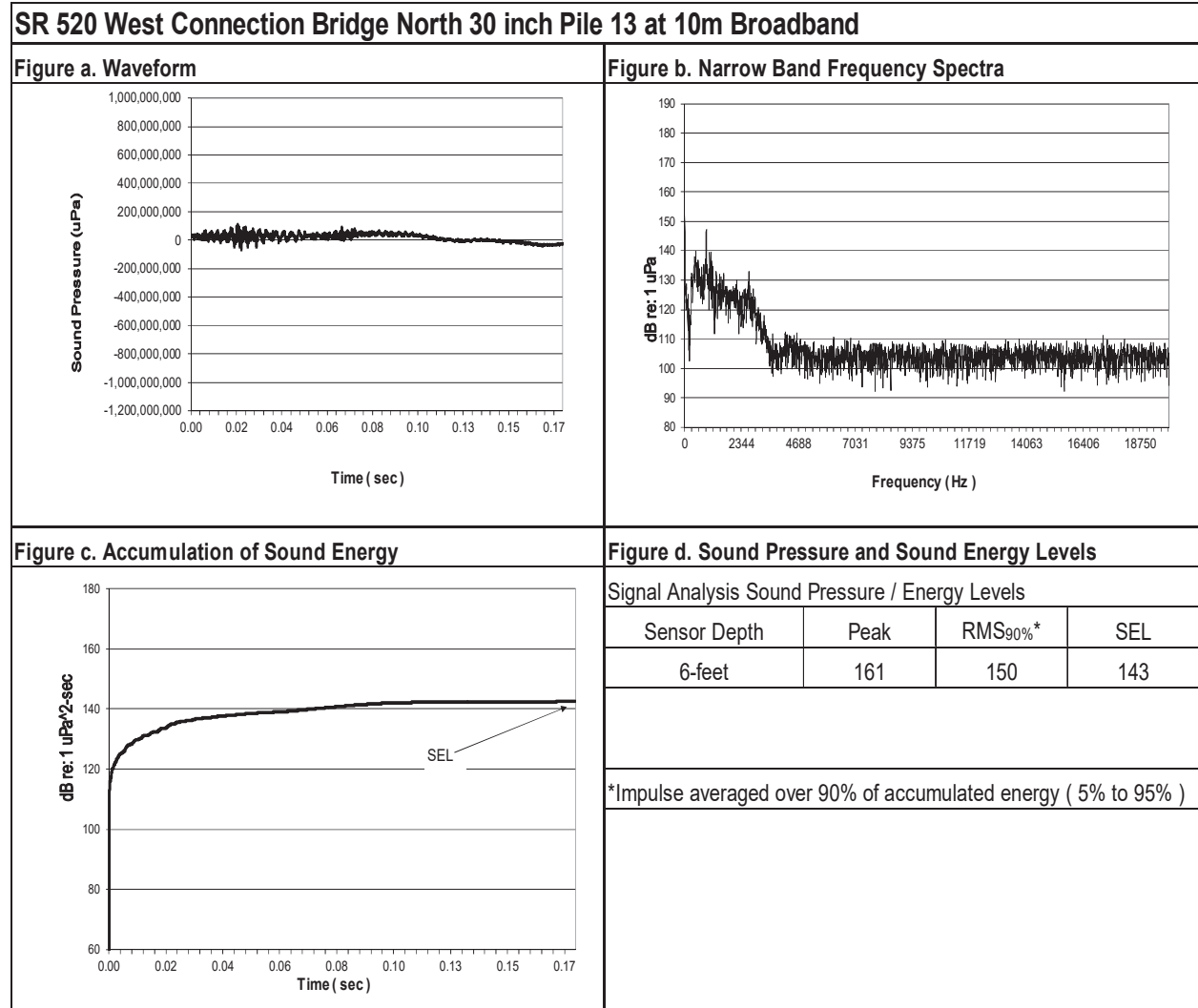


Figure 26: Waveform analysis of Pile 14, 10M

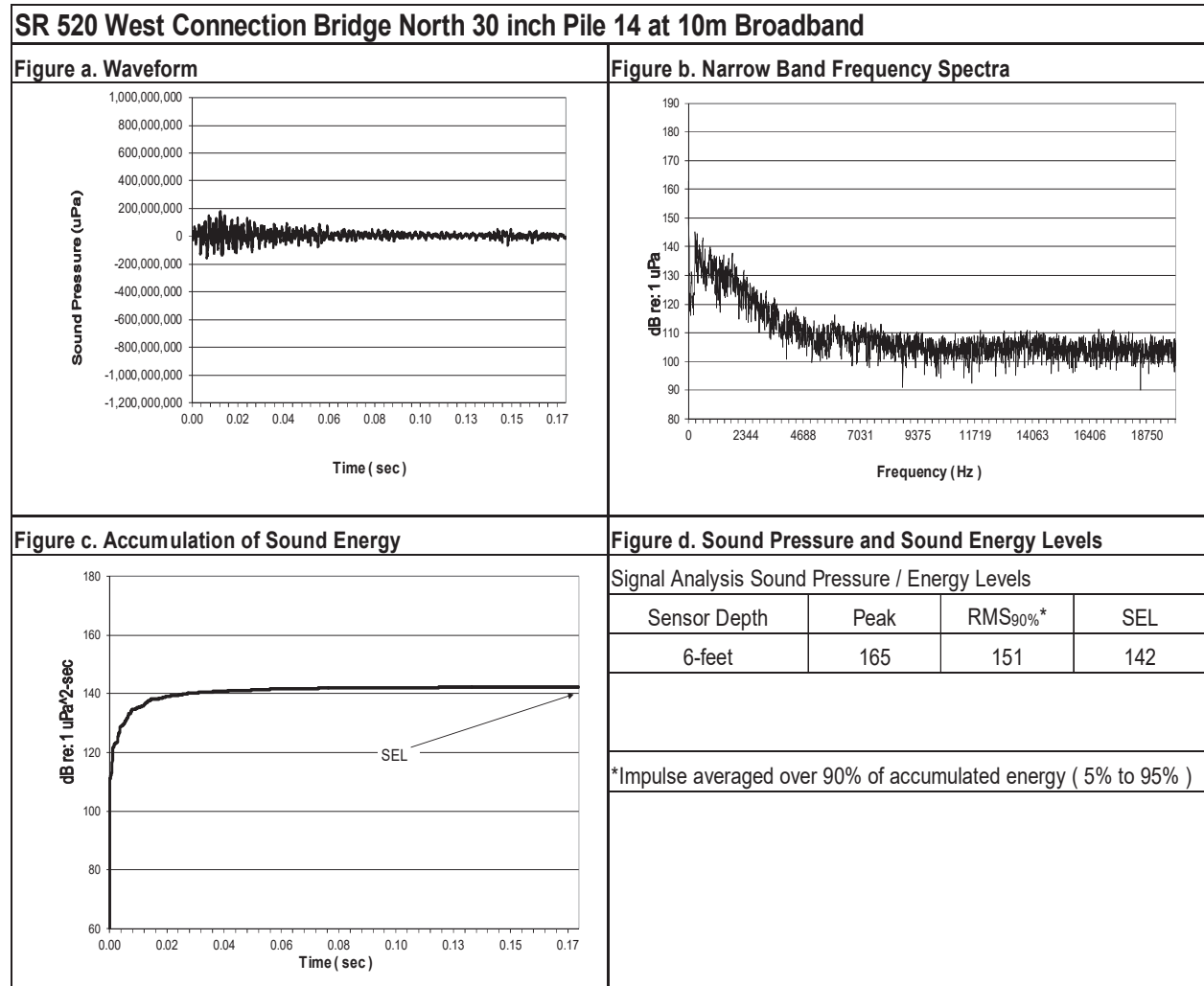


Figure 27: Waveform analysis of Pile 15, 10M

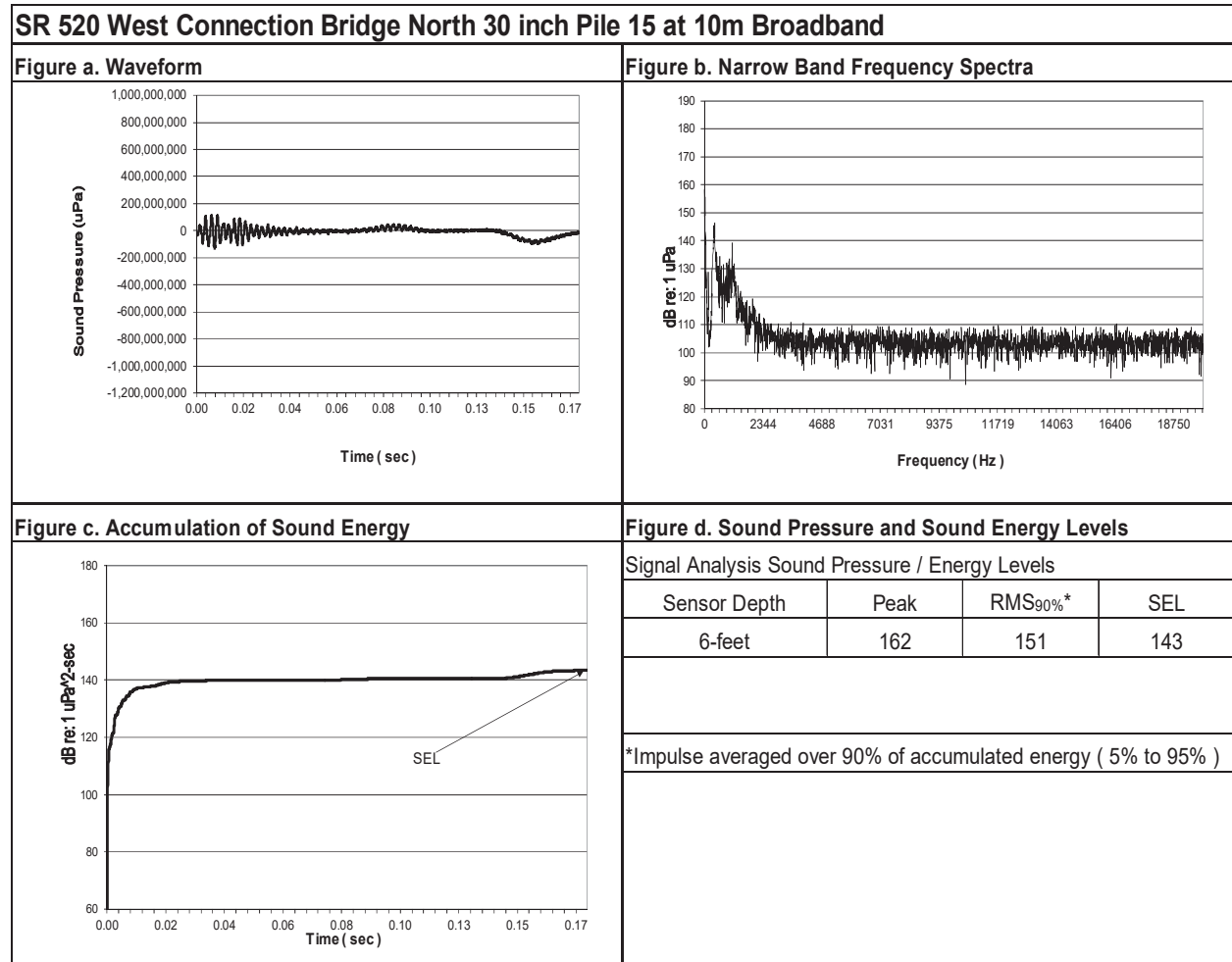


Figure 28: Waveform analysis of Pile 16, 10M

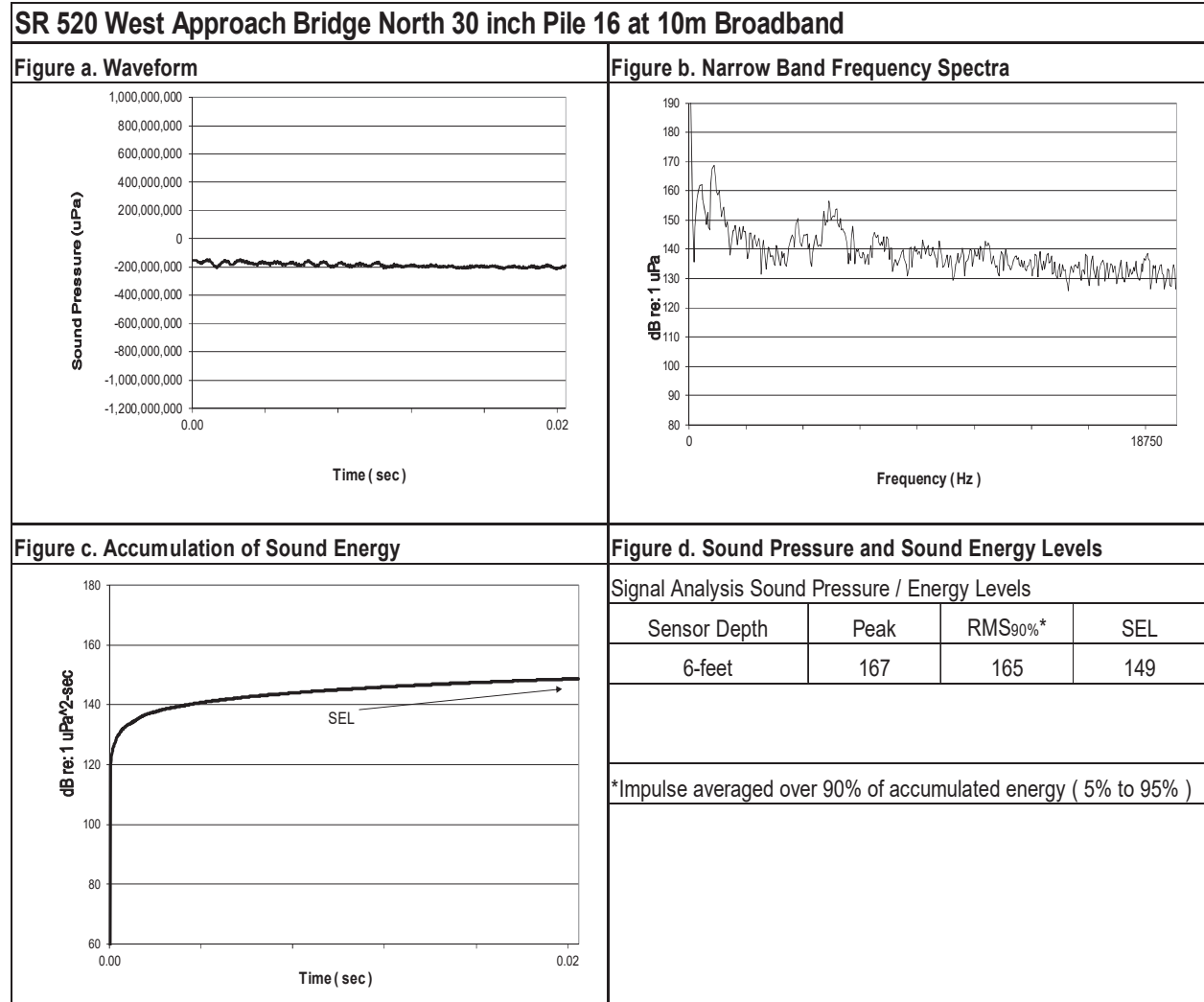


Figure 29: Waveform analysis of Pile 17, 10M

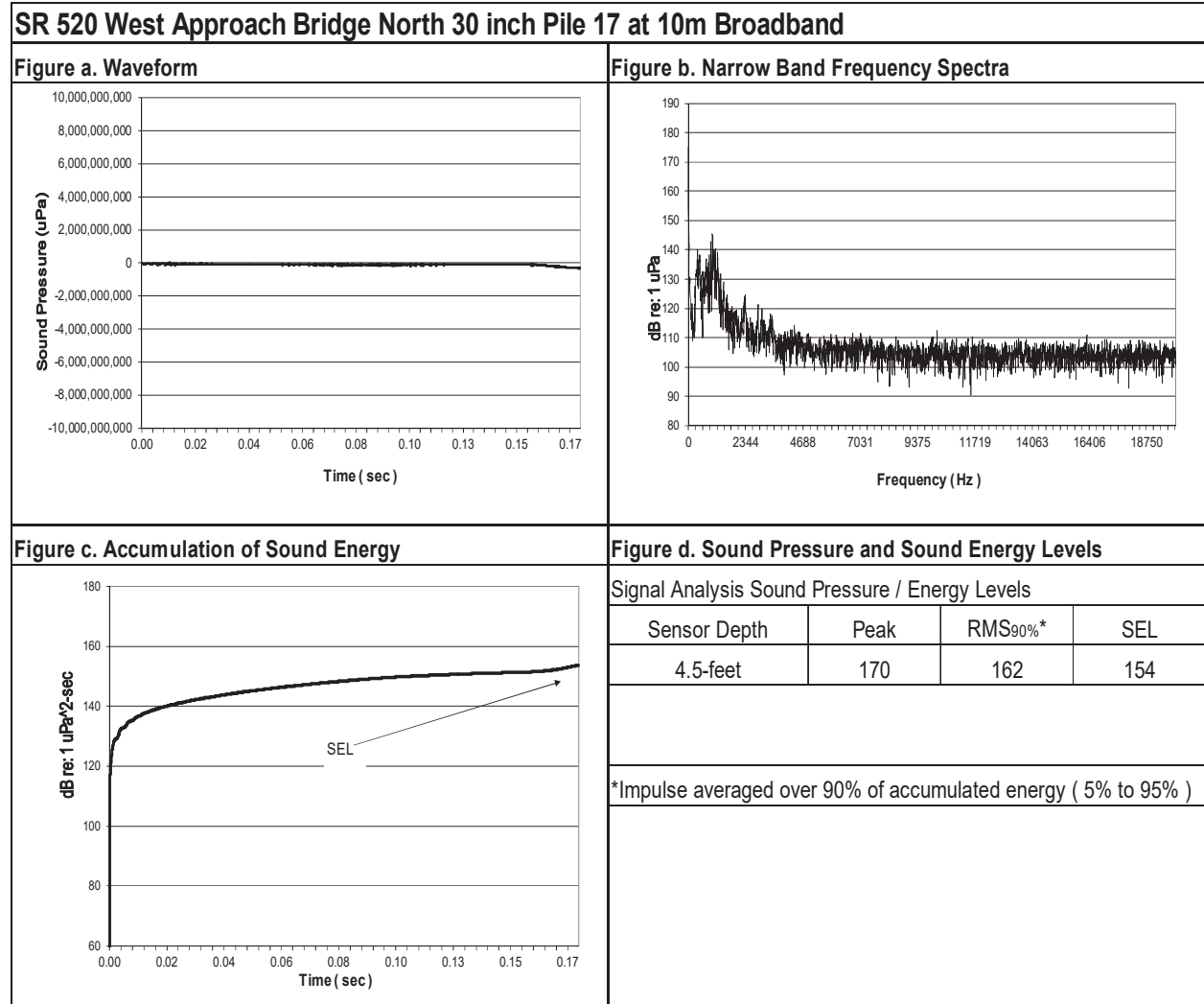


Figure 30: Waveform analysis of Pile 18, 10M

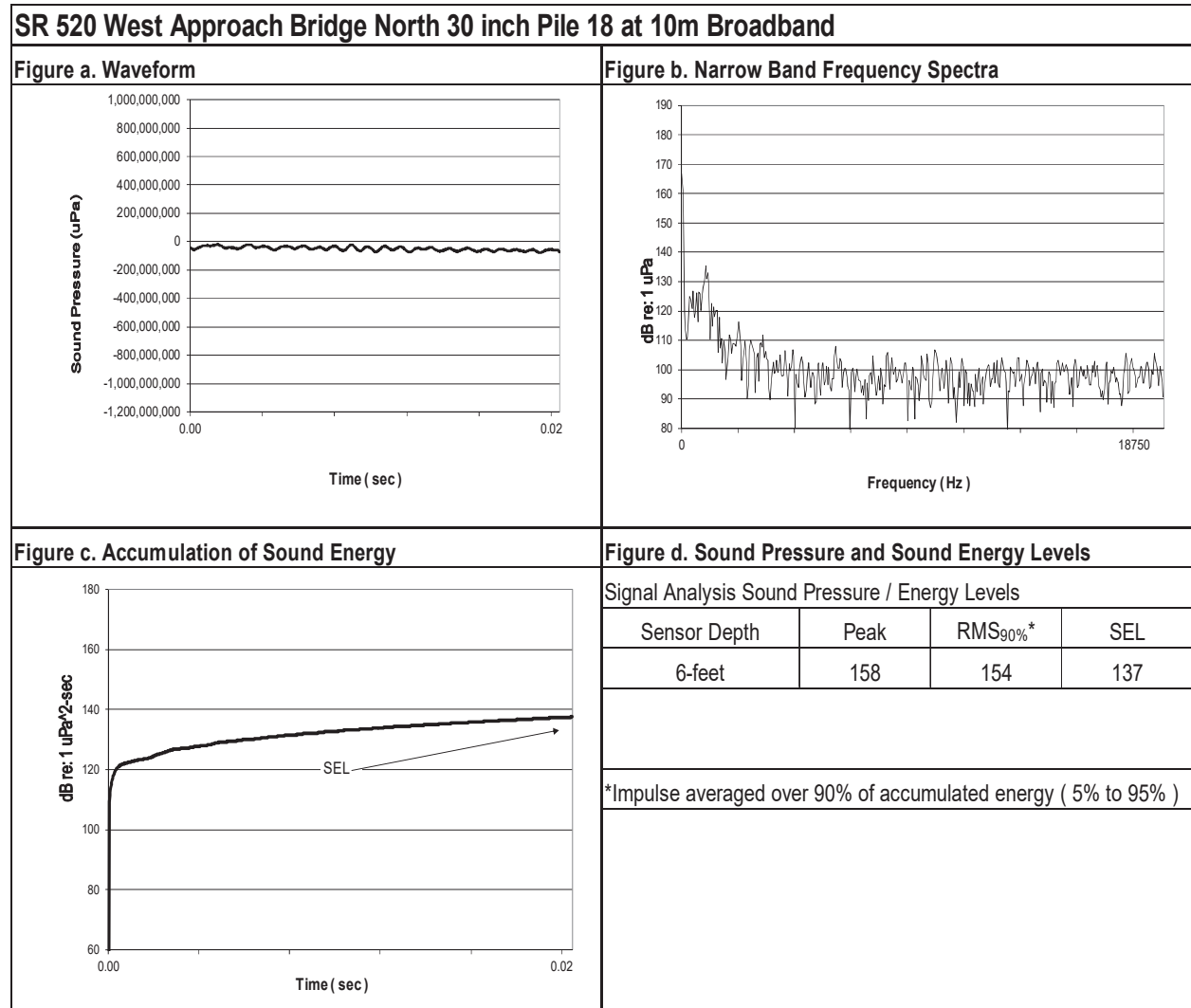


Figure 31: Waveform analysis of Pile 19, 10M

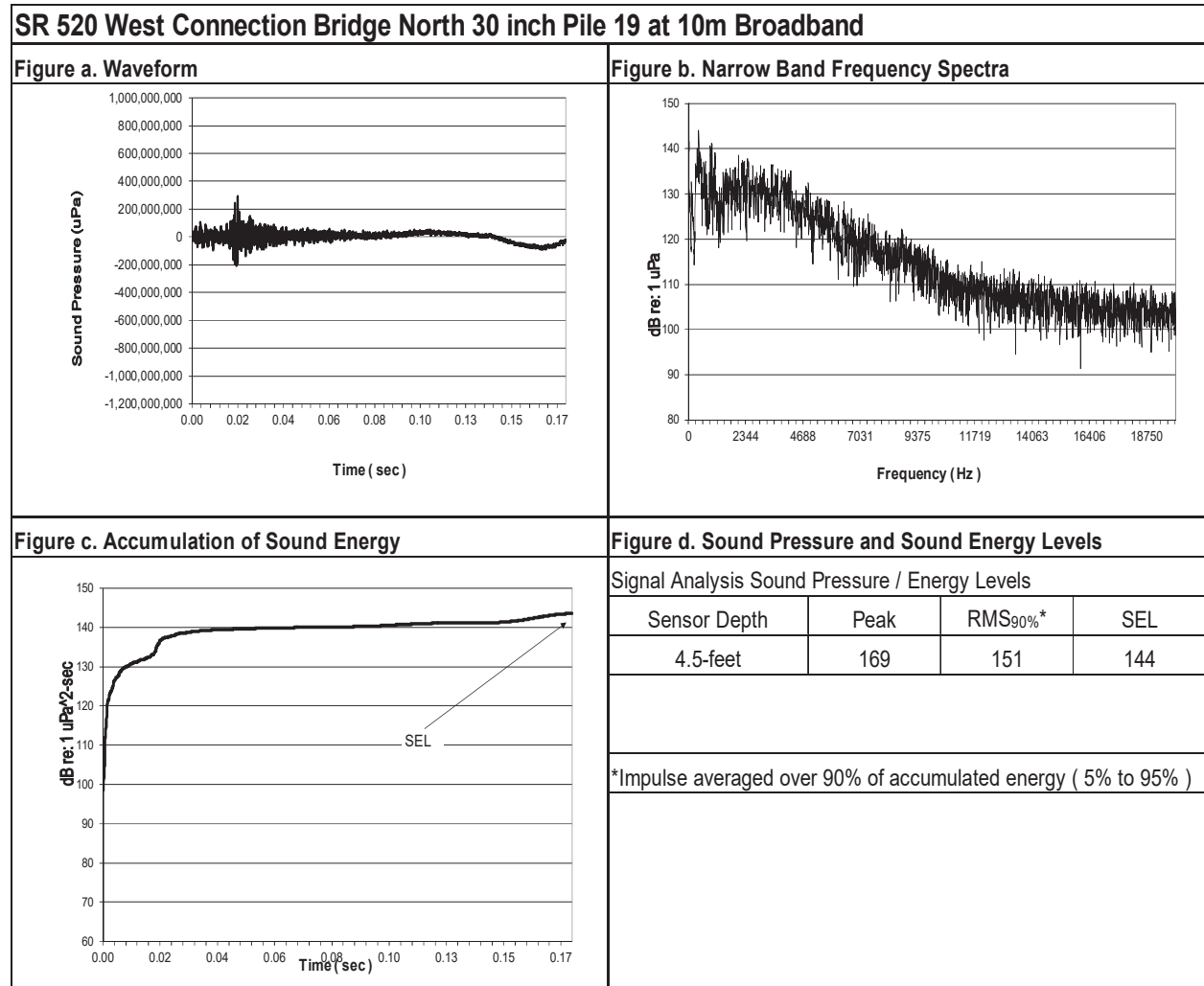
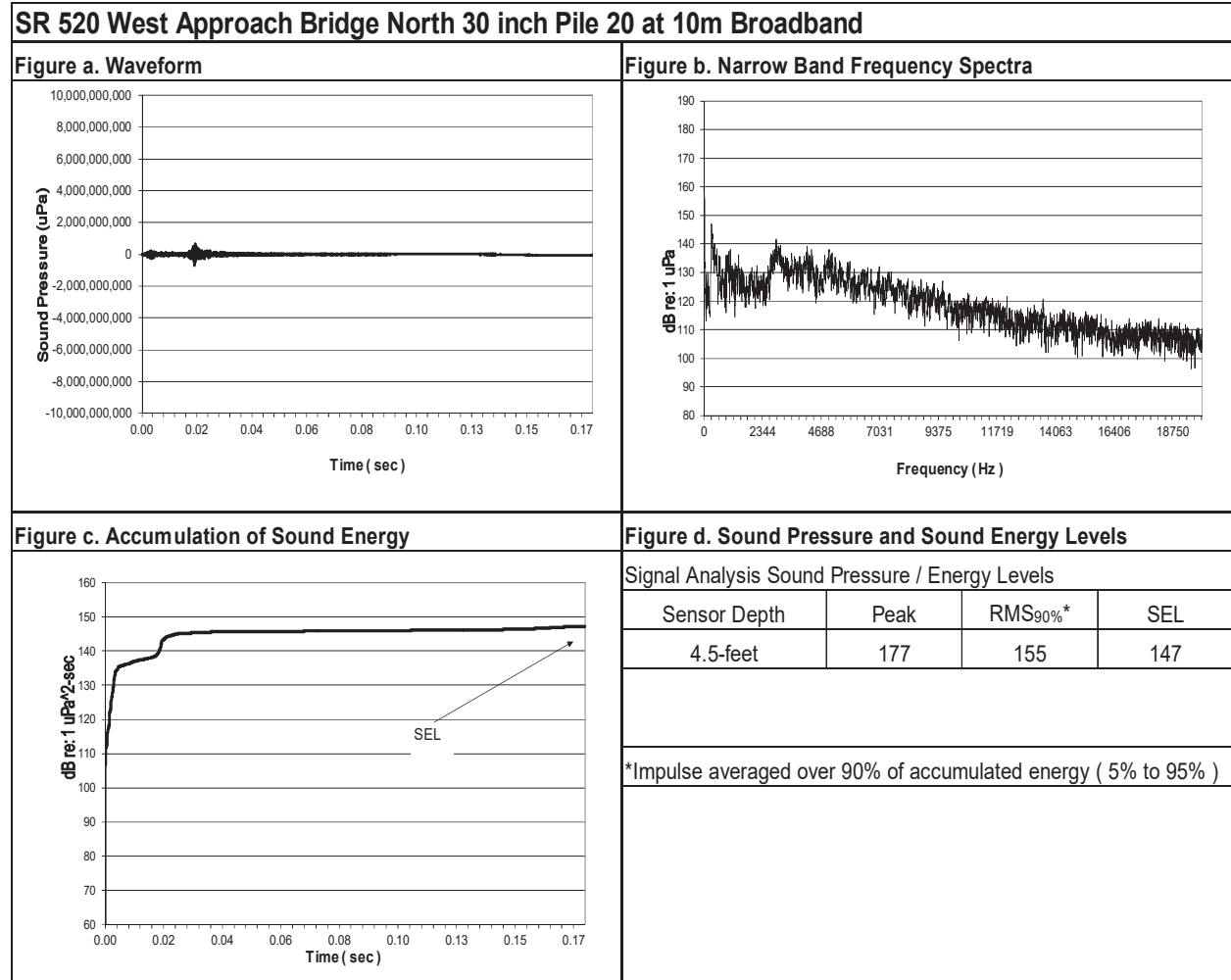


Figure 32: Waveform analysis of Pile 20, 10M



EAST OF FOSTER ISLAND

Figure 33: Waveform analysis of Pile 1, 10M

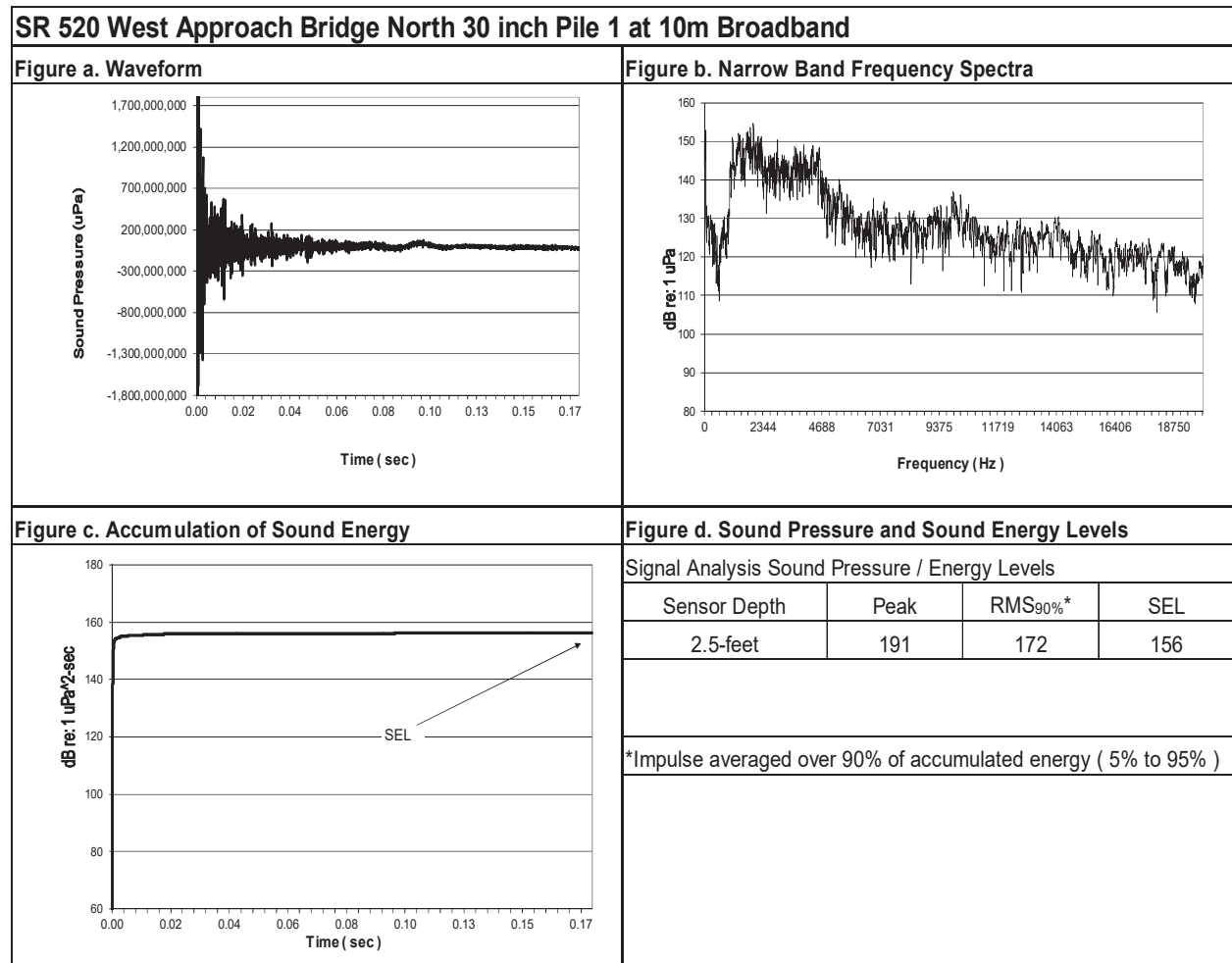


Figure 34: Waveform analysis of Pile 2, 10M

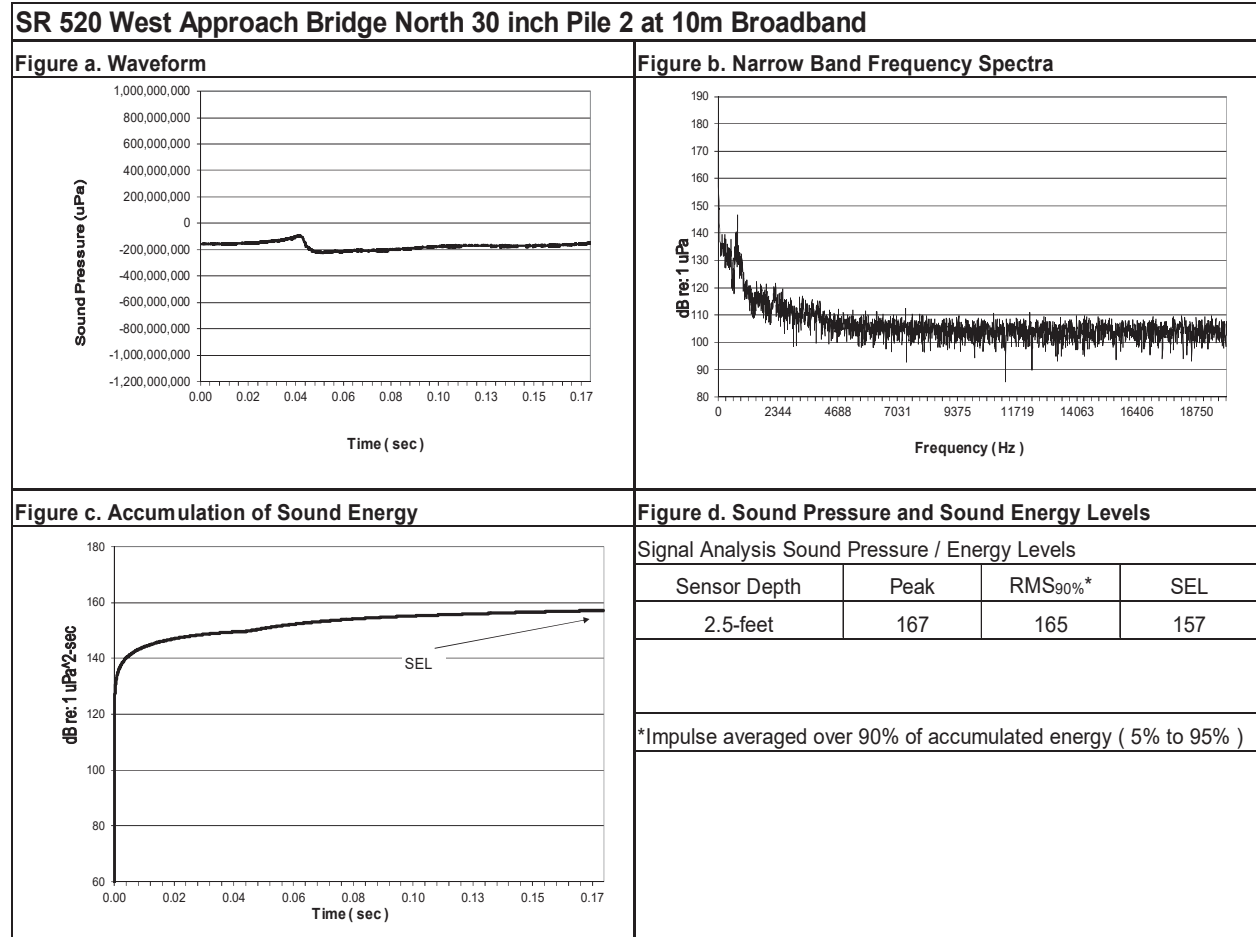


Figure 35: Waveform analysis of Pile 3, 10M

SR 520 West Approach Bridge North 30 inch Pile 3 at 10m Broadband

Figure a. Waveform

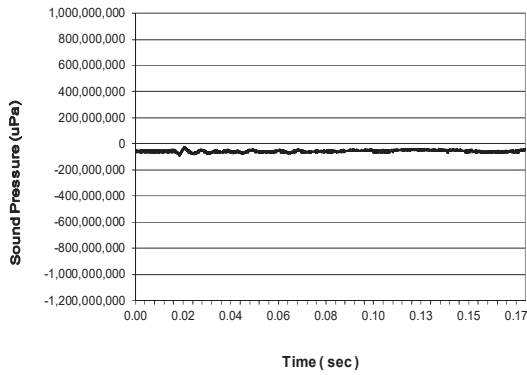


Figure b. Narrow Band Frequency Spectra

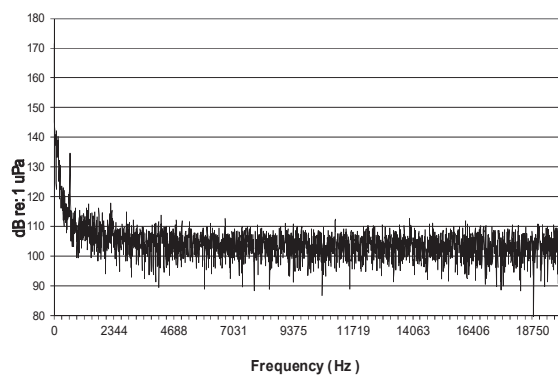


Figure c. Accumulation of Sound Energy

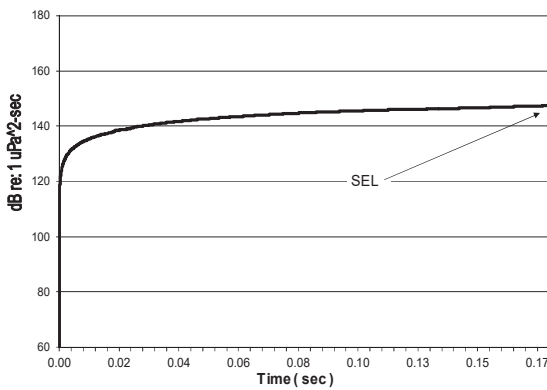


Figure d. Sound Pressure and Sound Energy Levels

Signal Analysis Sound Pressure / Energy Levels

Sensor Depth	Peak	RMS _{90%} *	SEL
2.5-feet	158	155	147

*Impulse averaged over 90% of accumulated energy (5% to 95%)

Figure 36: Waveform analysis of Pile 4, 10M

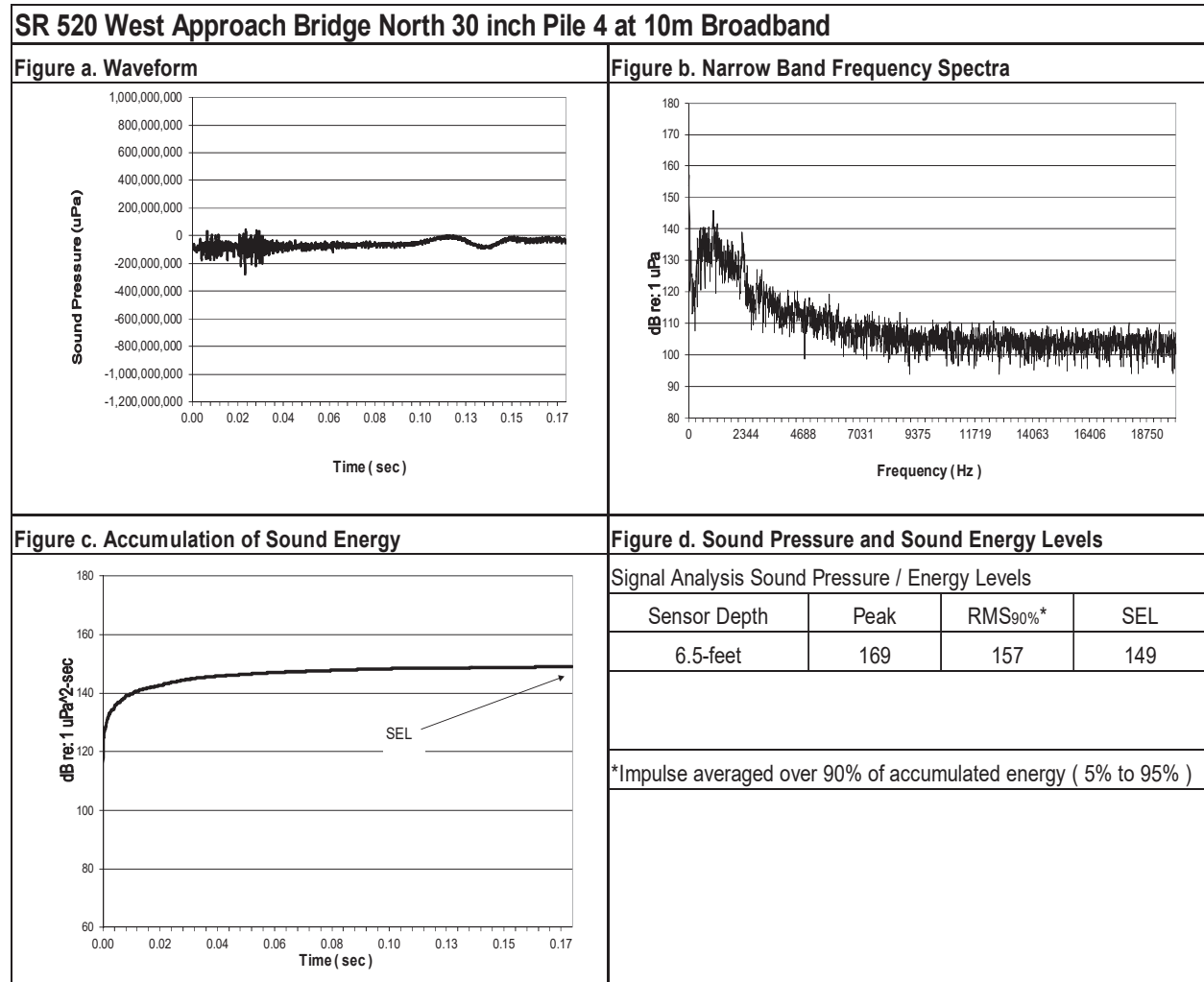


Figure 37: Waveform analysis of Pile 5, 10M

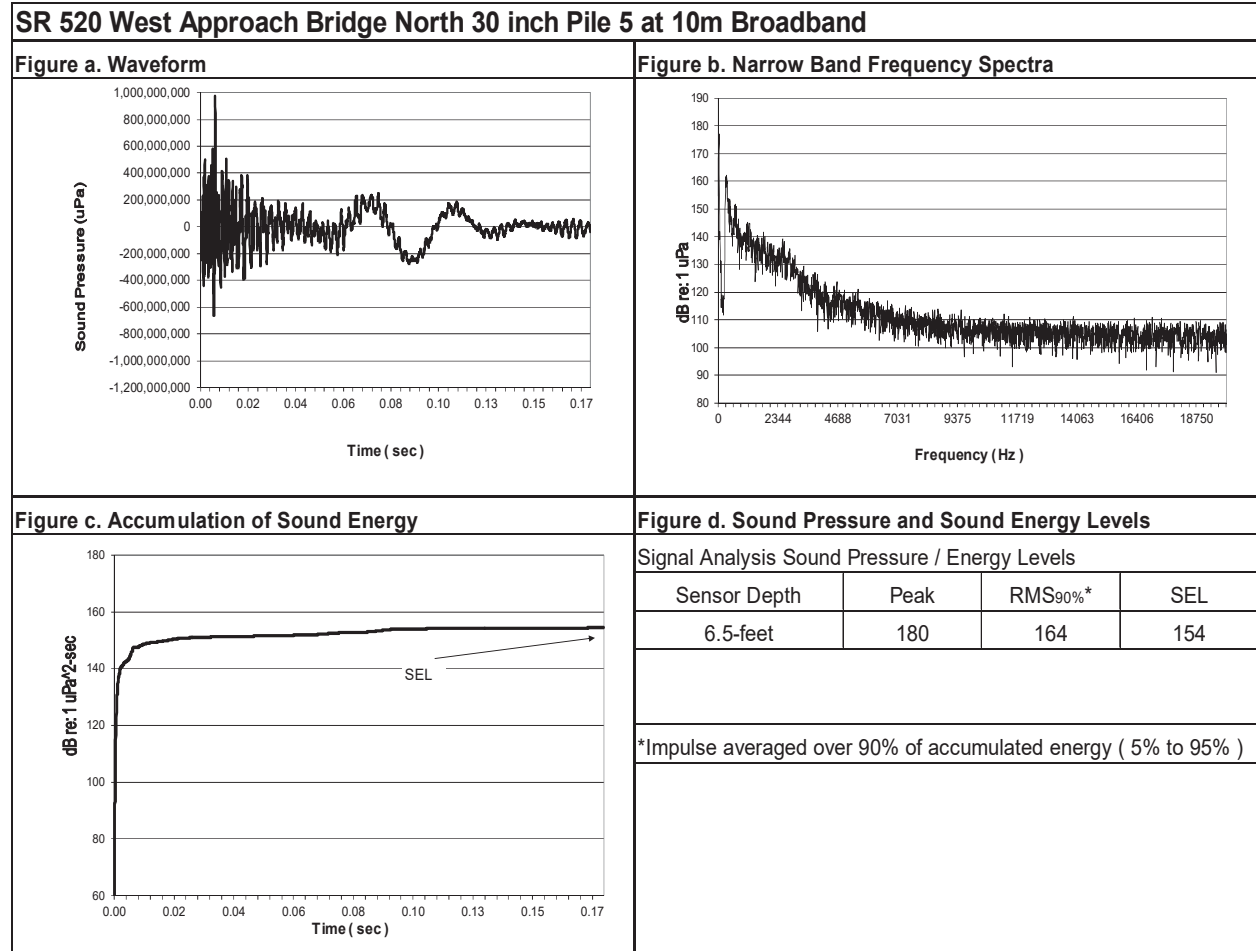


Figure 38: Waveform analysis of Pile 6, 10M

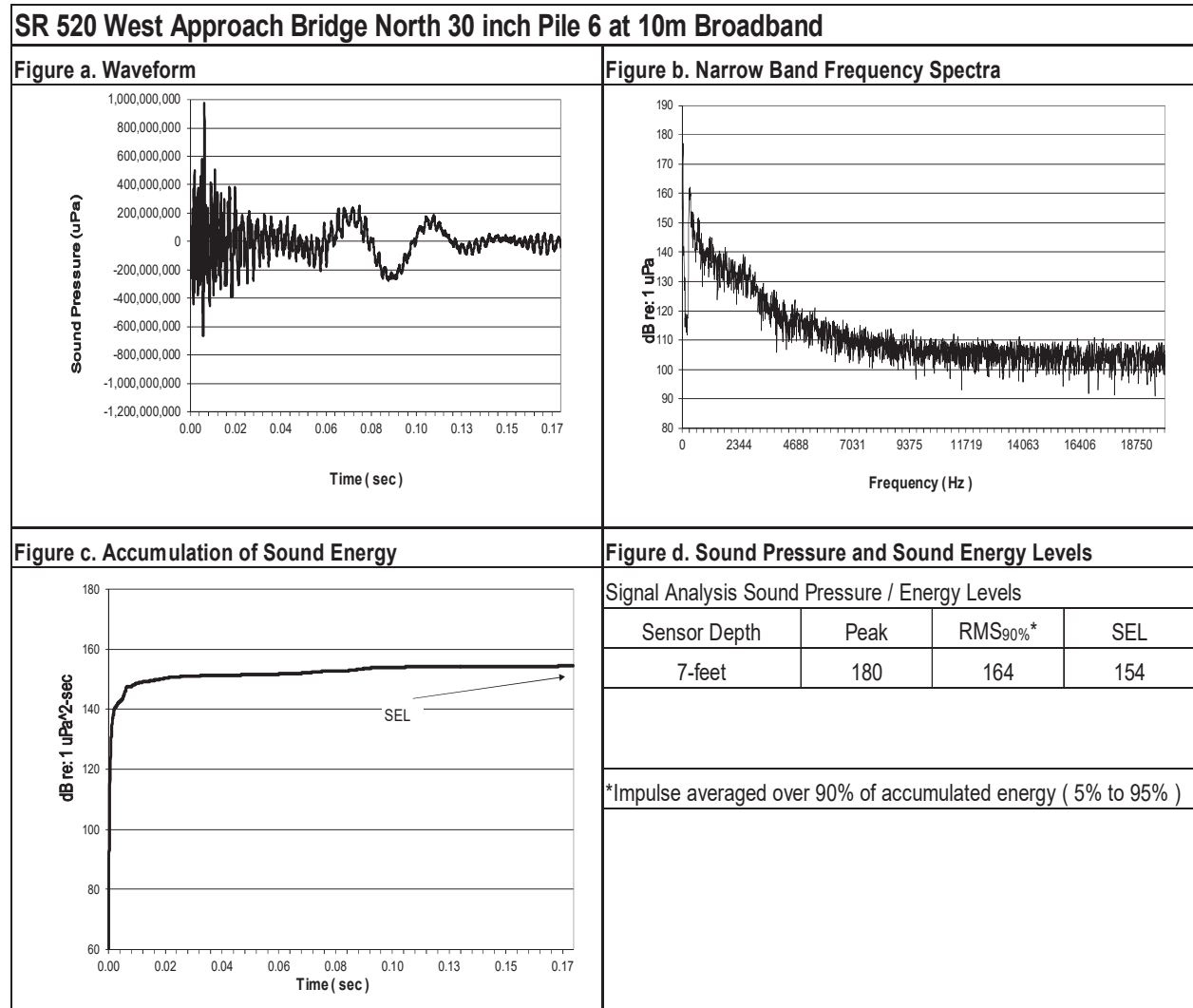


Figure 39: Waveform analysis of Pile 7, 10M

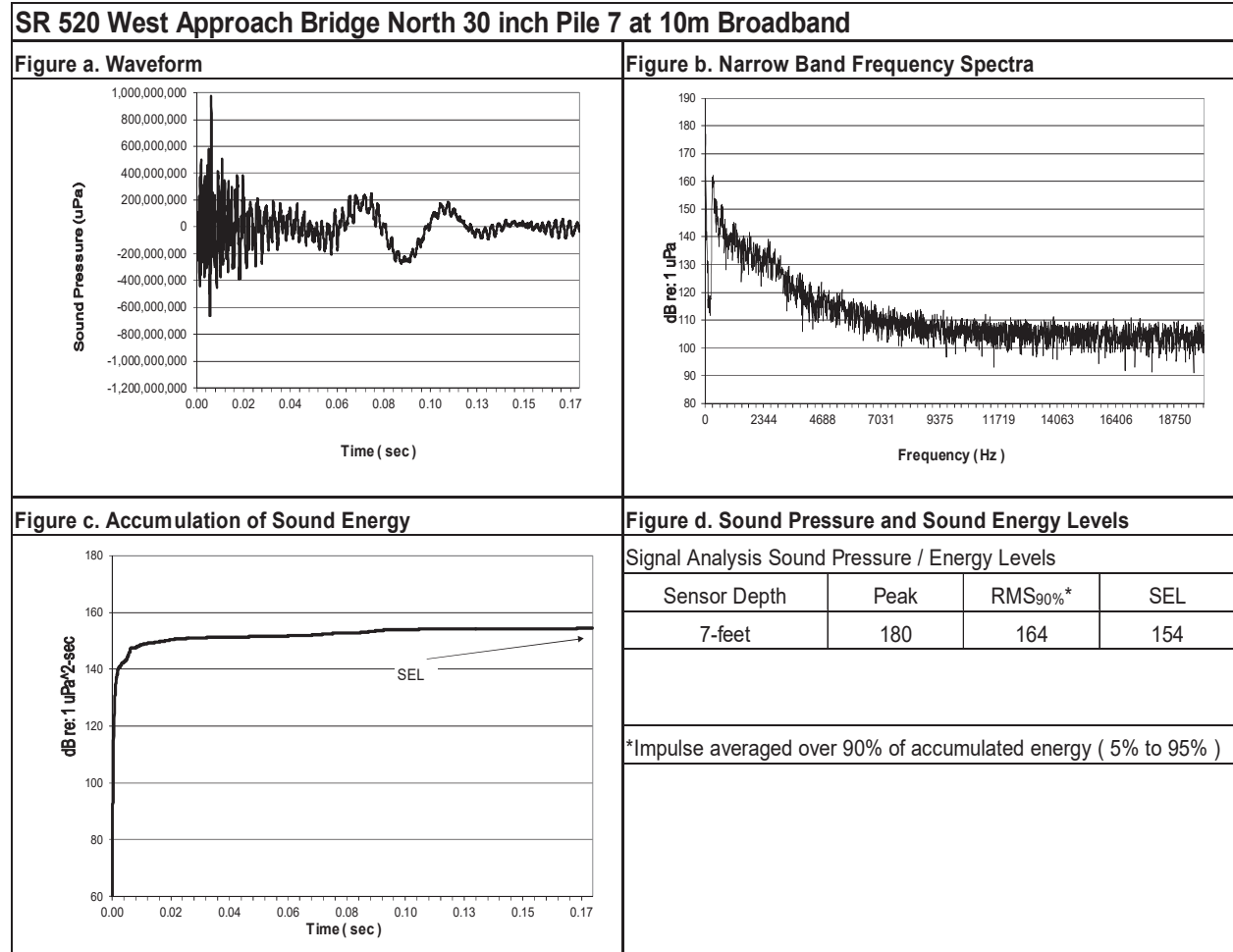


Figure 40: Waveform analysis of Pile 8, 10M

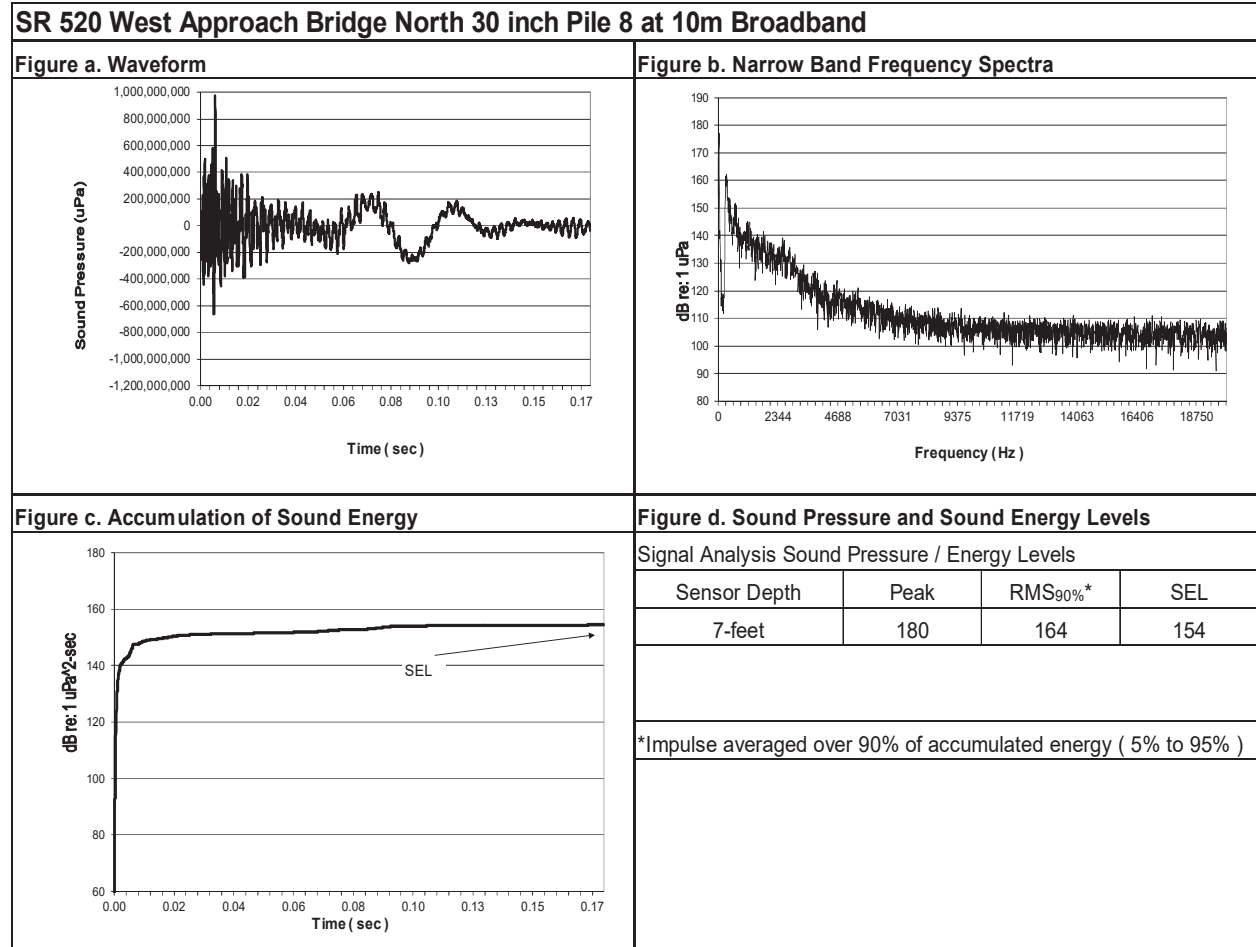


Figure 41: Waveform analysis of Pile 9, 10M

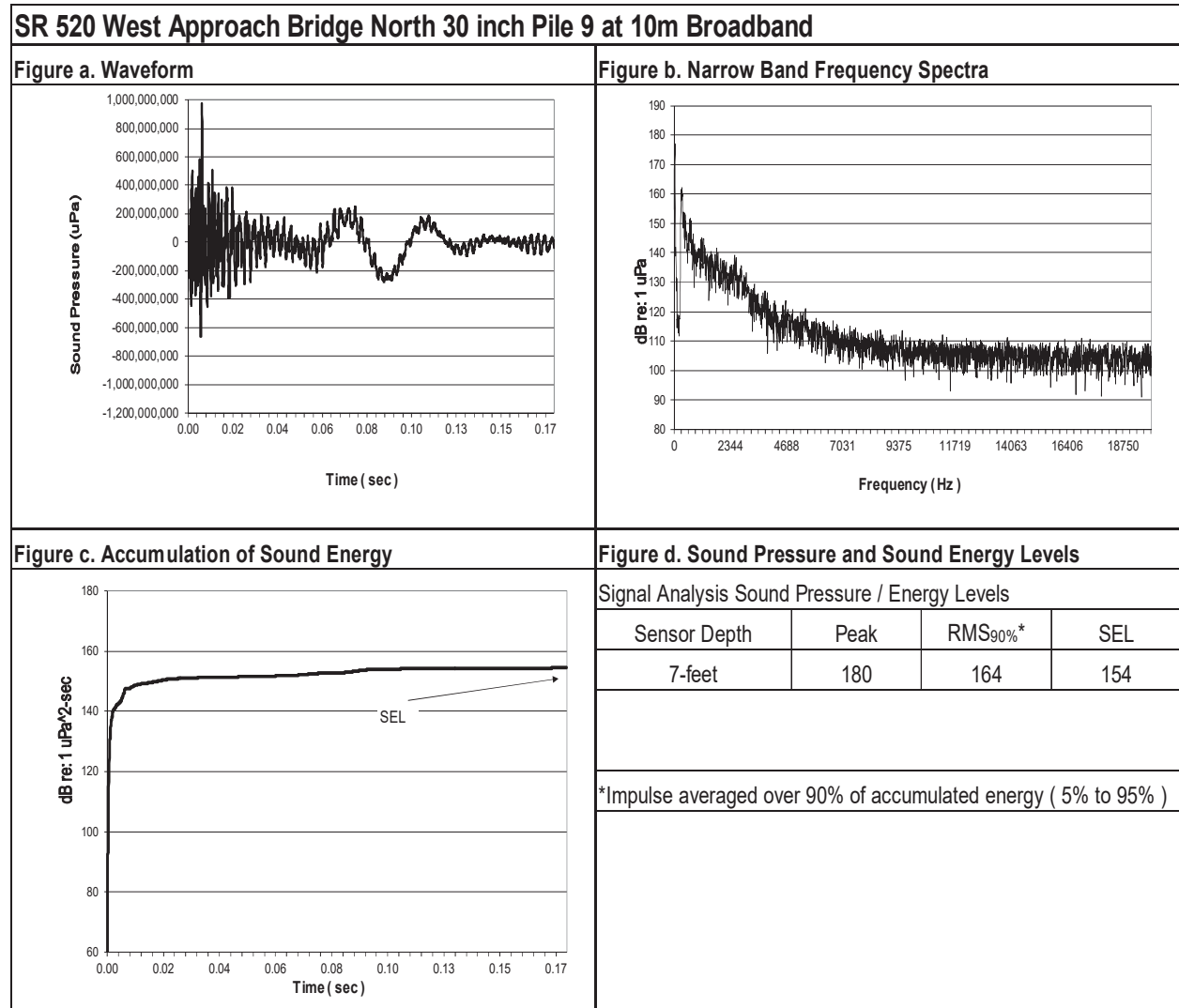


Figure 42: Waveform analysis of Pile 10, 10M

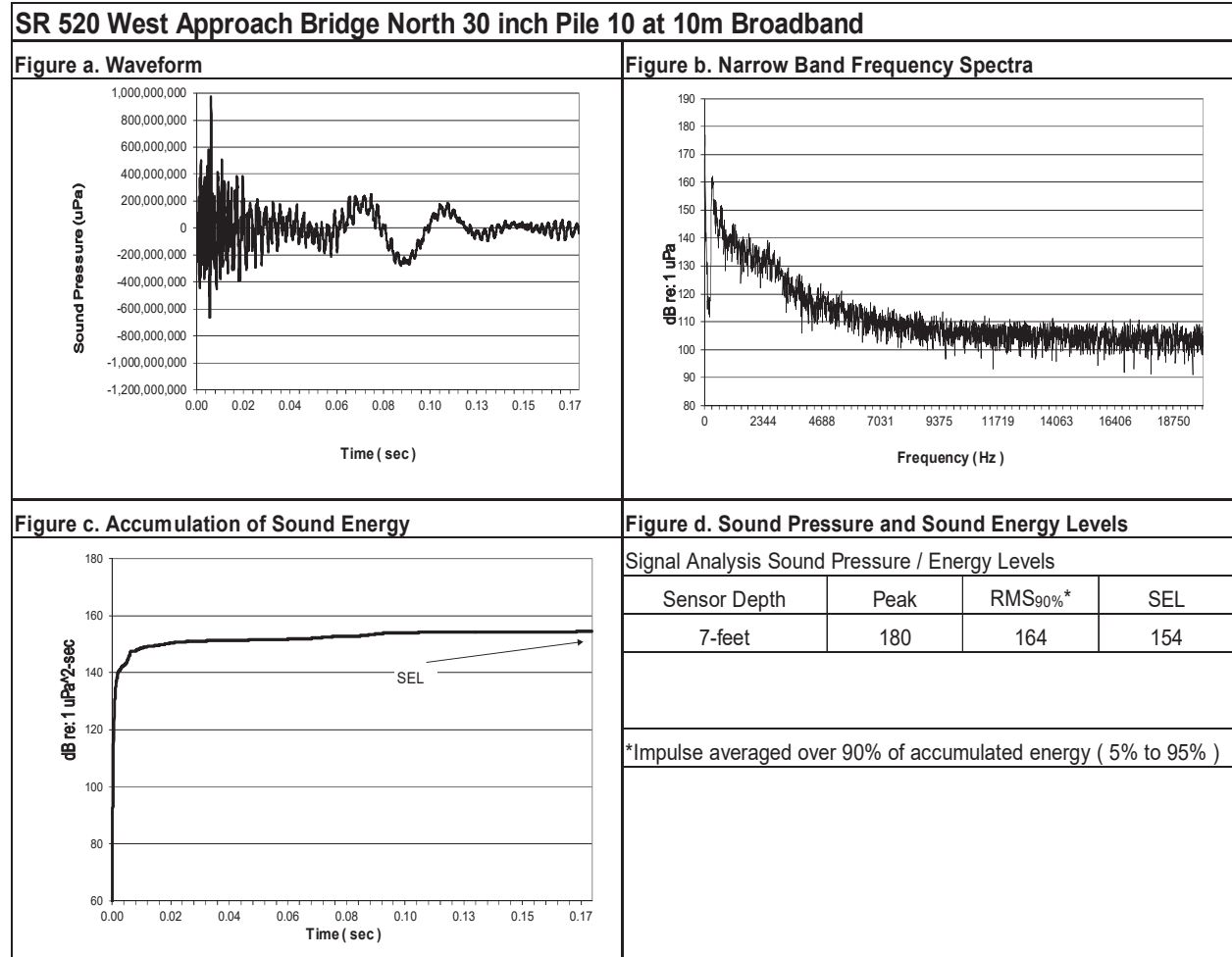


Figure 43: Waveform analysis of Pile 11, 13M

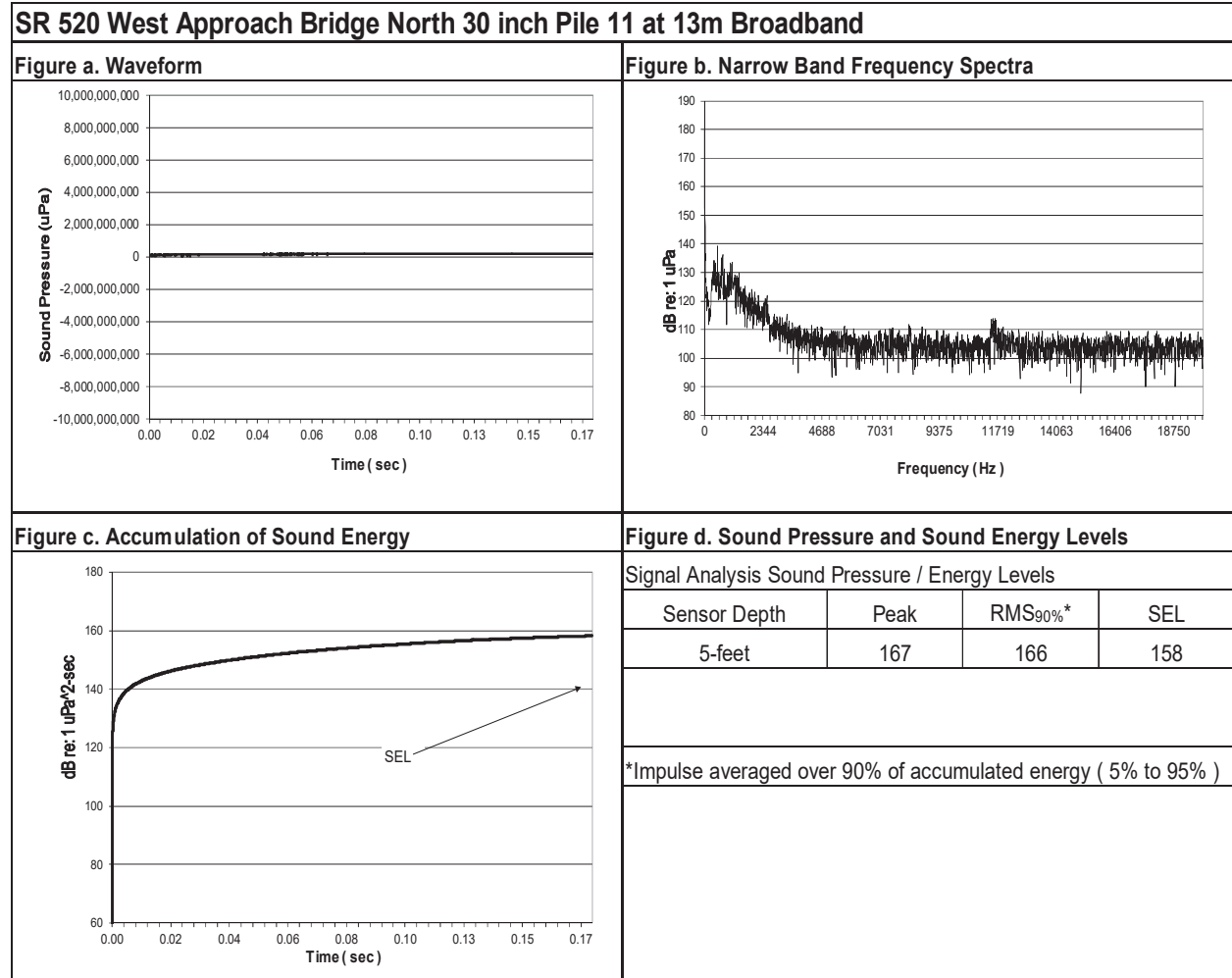


Figure 44: Waveform analysis of Pile 12, 10M

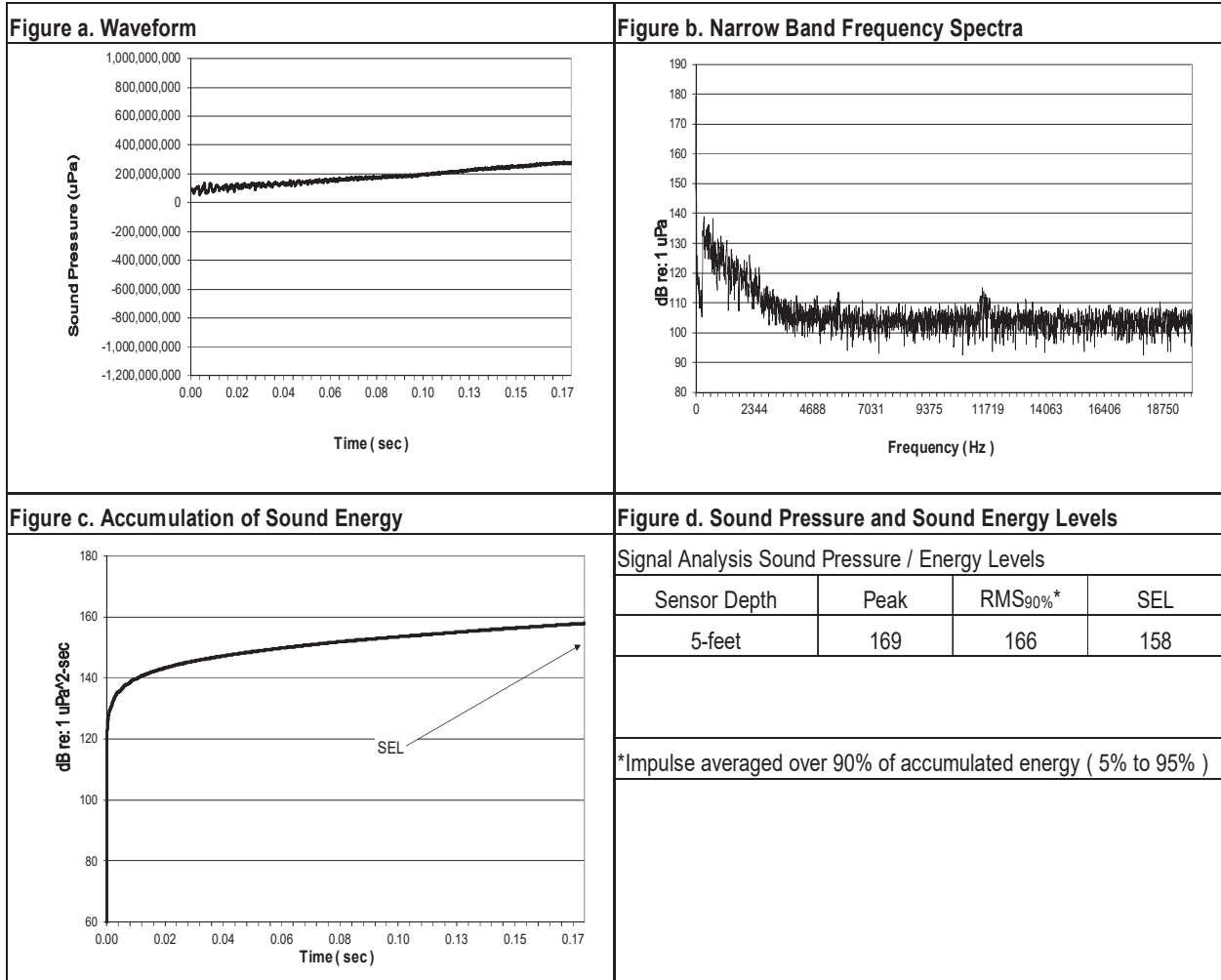


Figure 45: Waveform analysis of Pile 13 (1), 10M

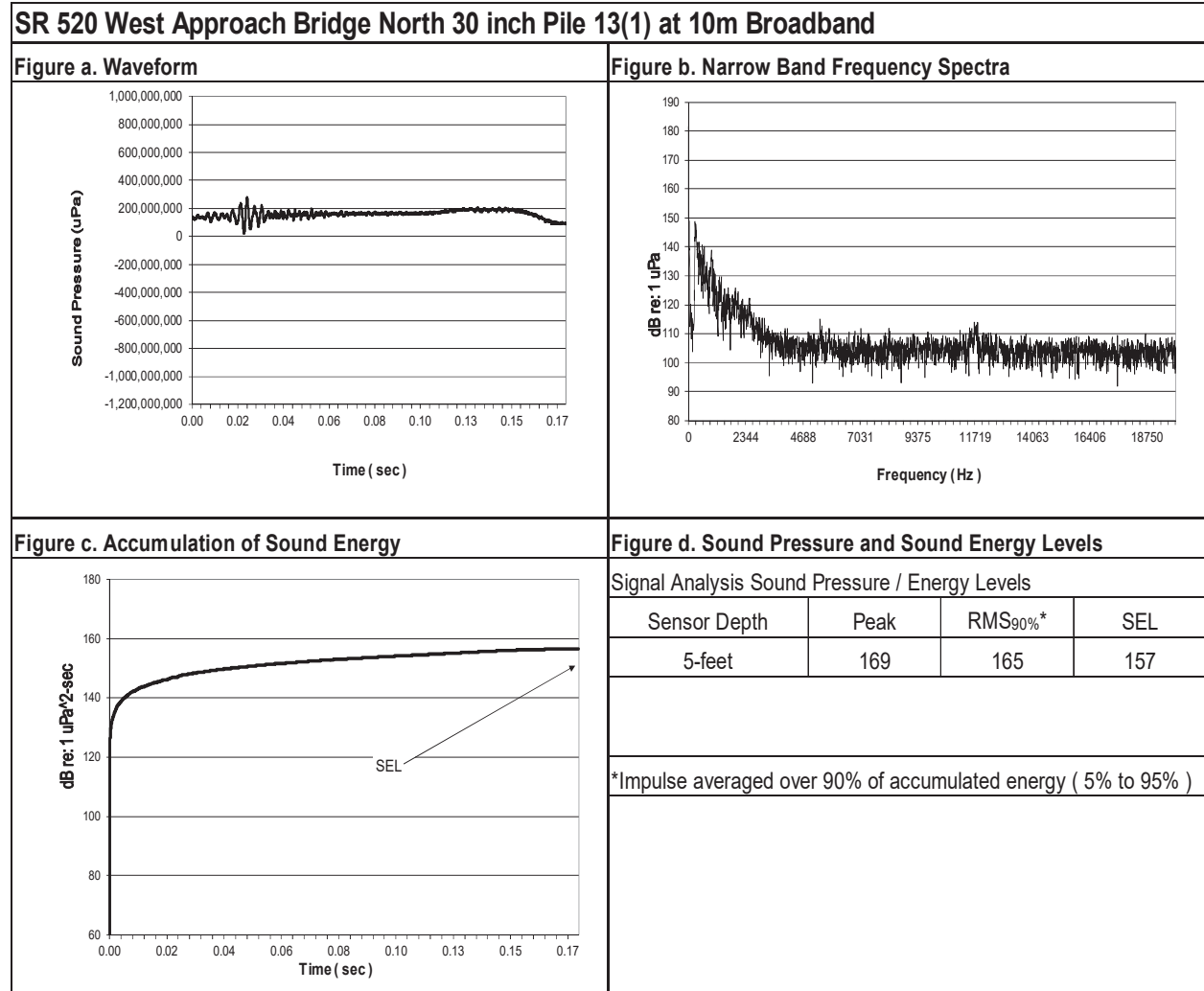


Figure 46: Waveform analysis of Pile 13(2), 10M

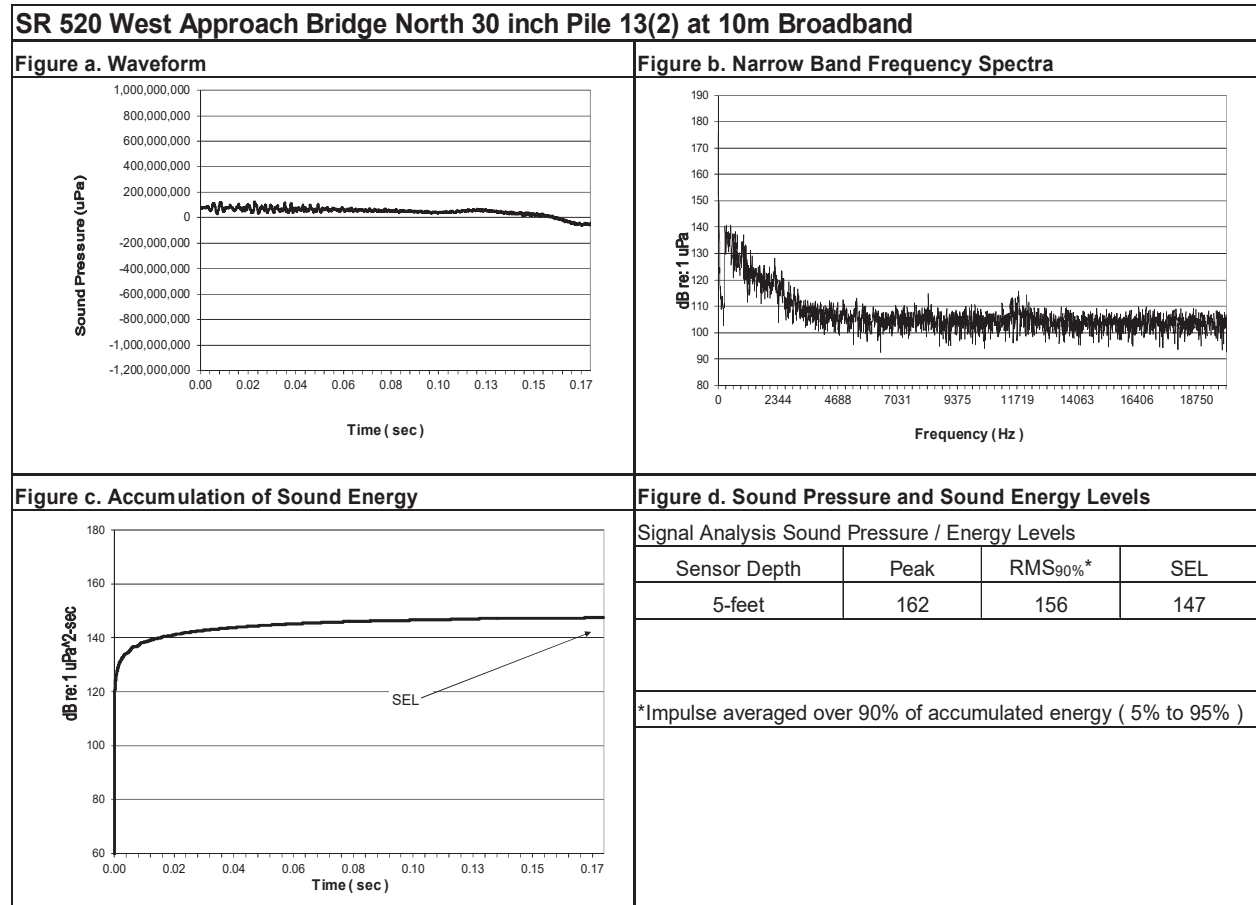


Figure 47: Waveform analysis of Pile 14, 10M

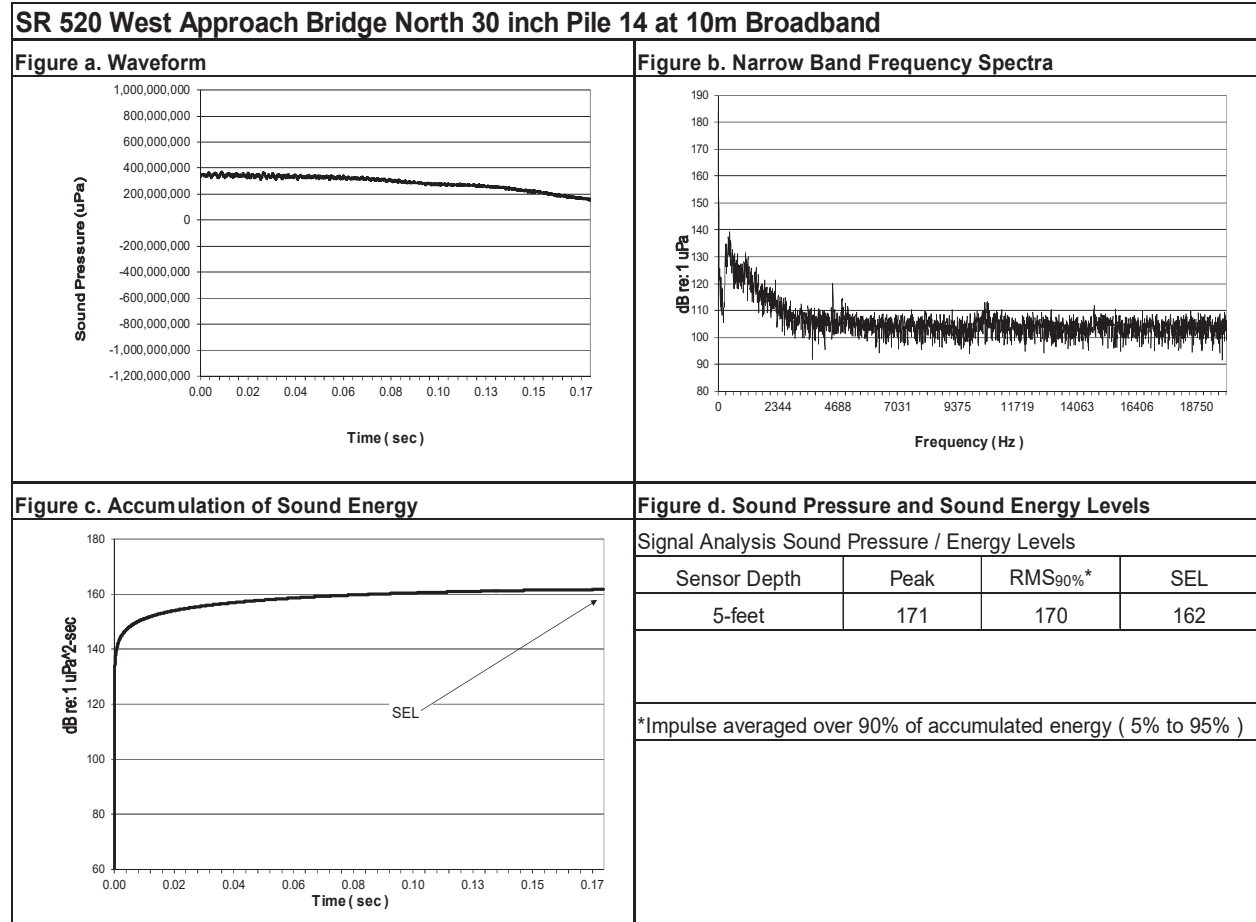


Figure 48: Waveform analysis of Pile 15, 10M

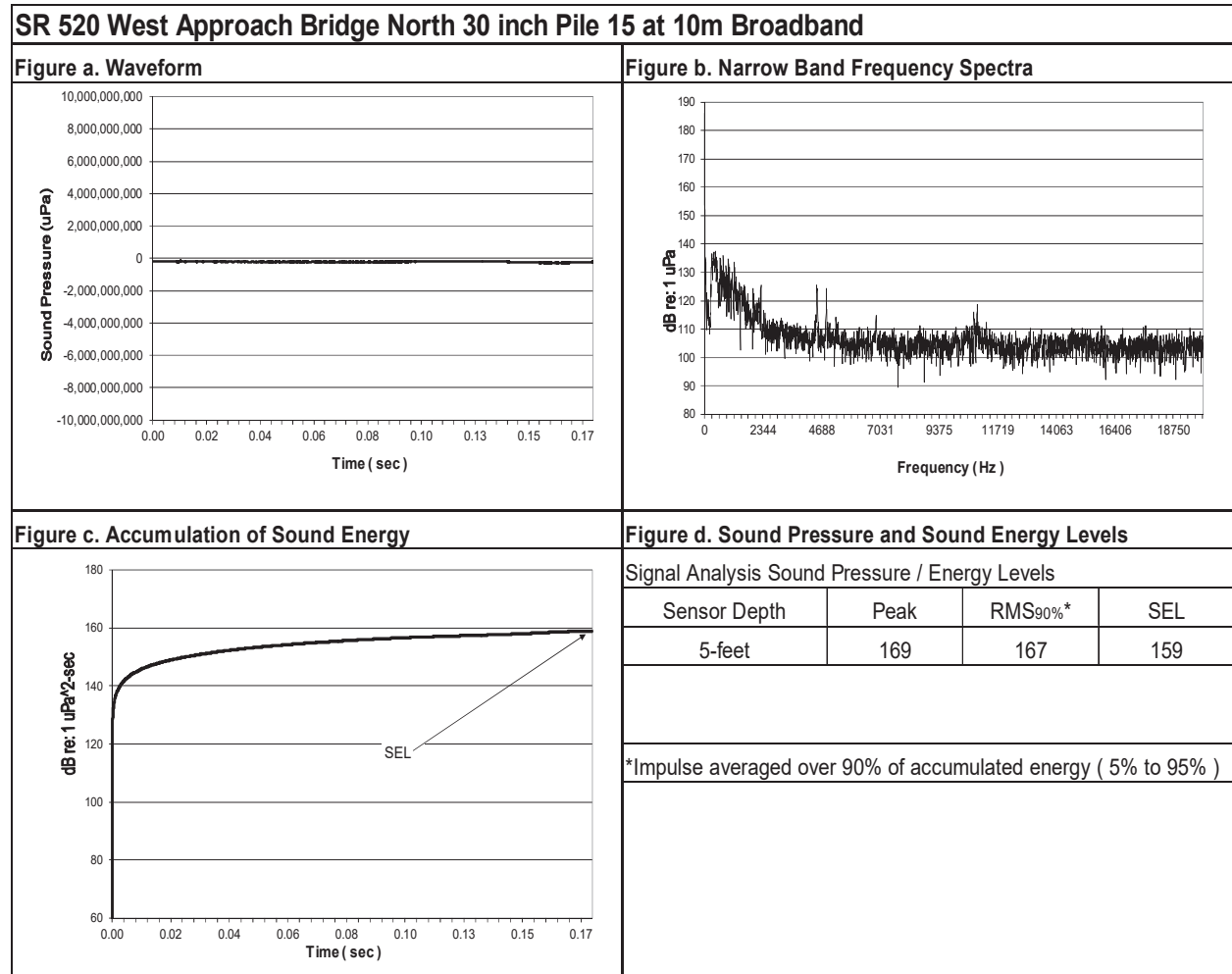


Figure 49: Waveform analysis of Pile 17, 10M

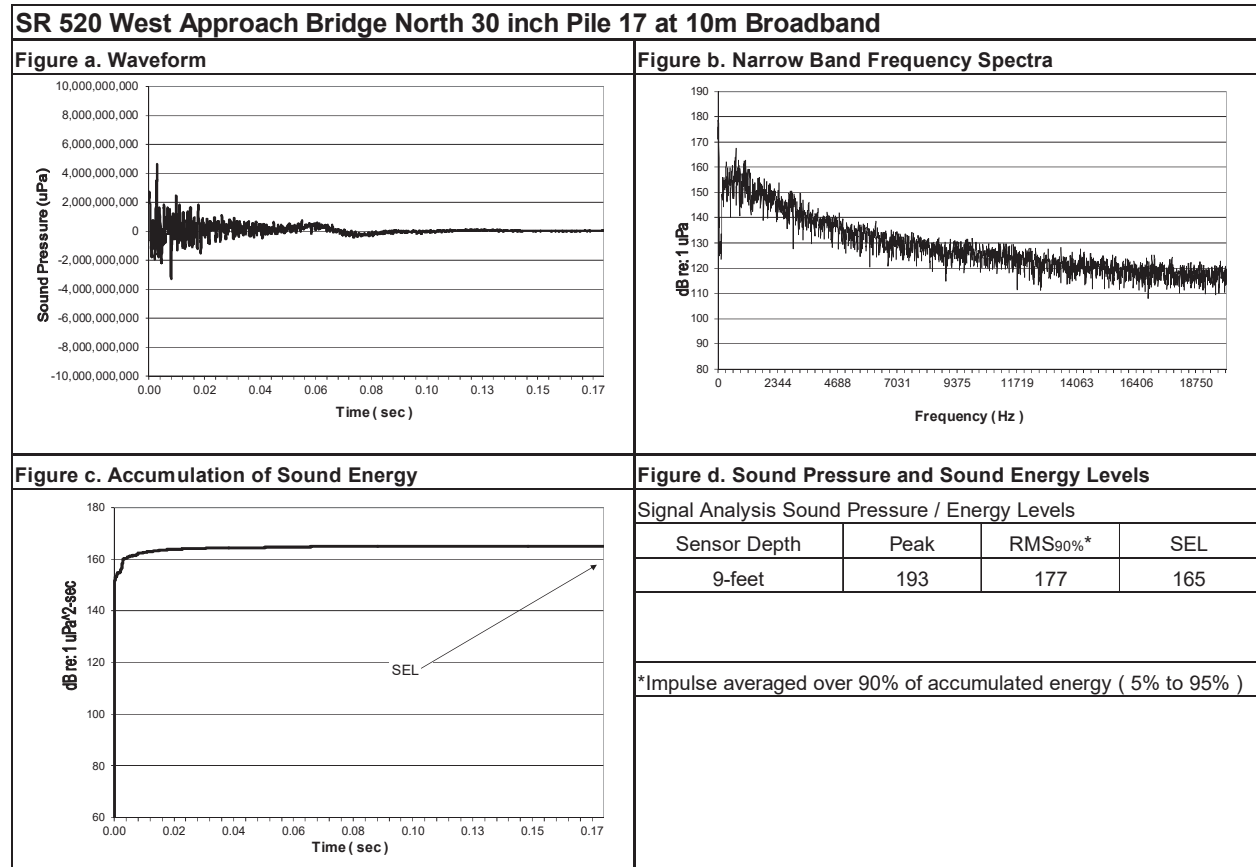


Figure 50: Waveform analysis of Pile 18, 10M

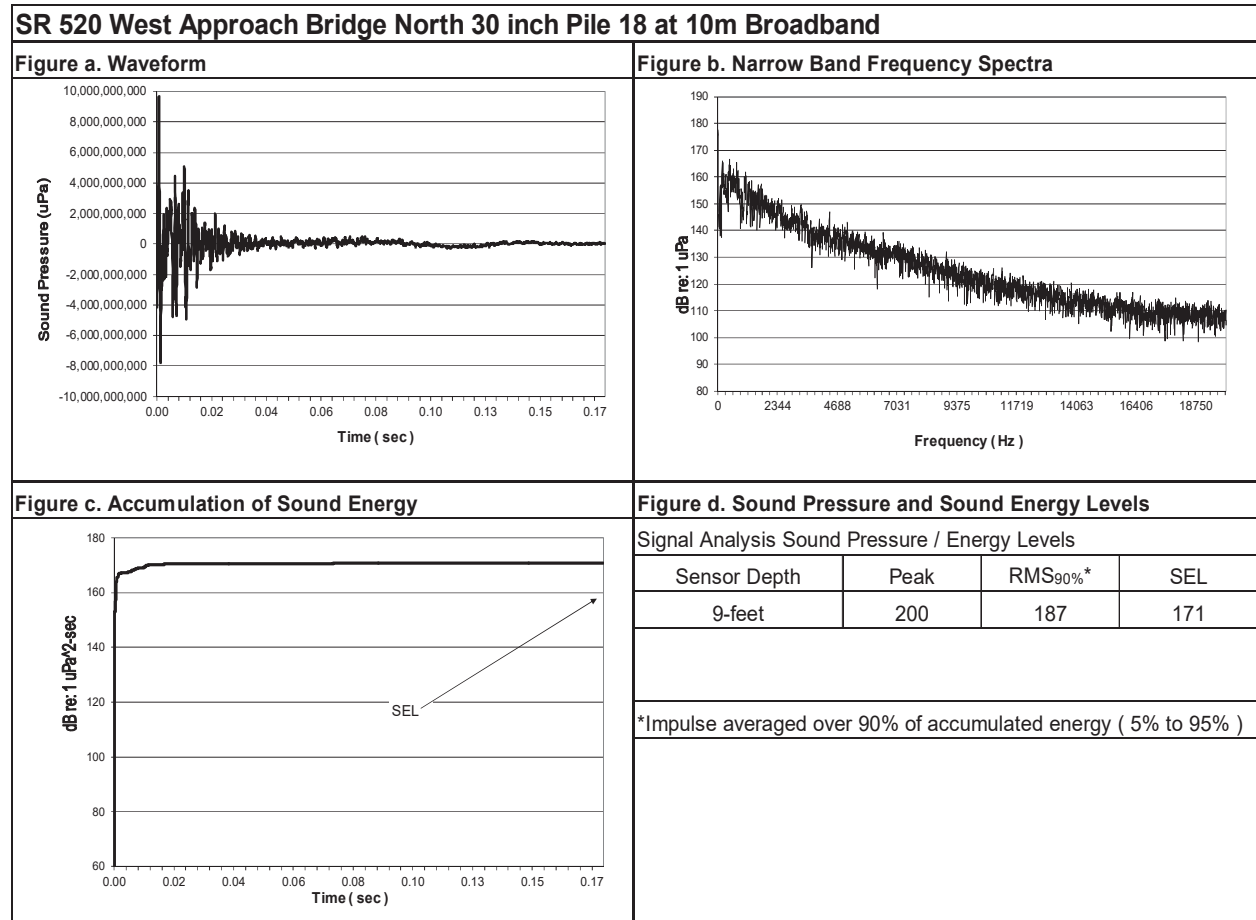


Figure 51: Waveform analysis of Pile 19, 10M

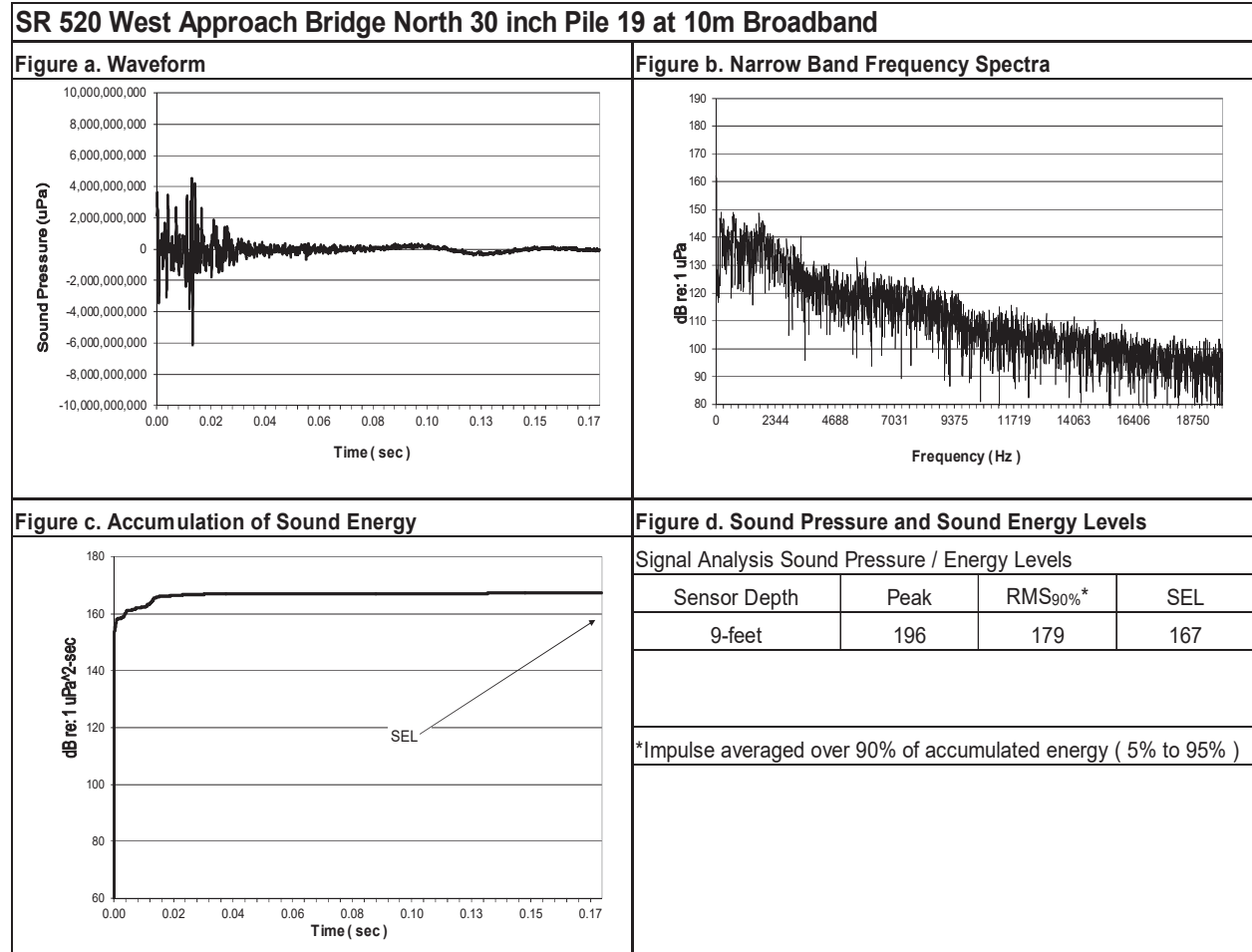


Figure 52: Waveform analysis of Pile 20, 10M

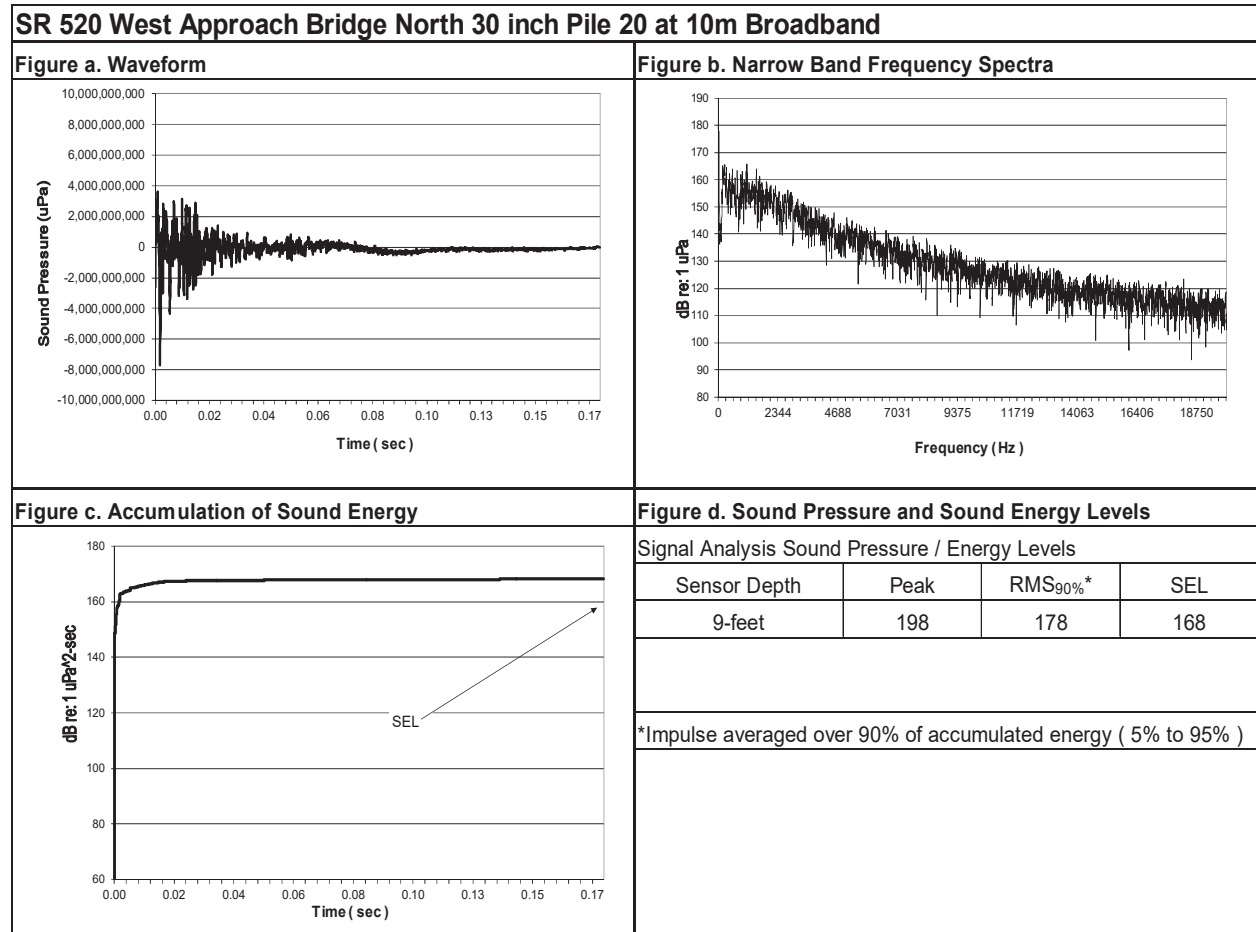


Figure 53: Waveform analysis of Pile 21, 10M

