**Table 1**: Received sound levels in exposure vessels for Experiment 1 and Experiment 2. Sound pressure measurements were conducted across a 1-24,000 Hz frequency range. Particle motion measurements were conducted across a 50-3000 Hz frequency range using a third-order Butterworth bandpass filter.

|  |
| --- |
| Mean (± SD) received sound |
| **Pressure** |  |  |  |
| **Expt.** | **Sound PlaybackTreatment** | **SPL (dB re 1 µPa)** |  | **SEL (dB re 1 µPa2 s)** |
| **pk-pk** | **RMS** |  | **SELss** | **SEL** | **SELcum** |
| Expt. 1 | Ambient | - | 118.0 ± 0.3 |  | - | 156.5 ± 0.3 | 195.8 ± 0.3 |
| Piling | 169.2 ± 1.9 | 136.8 ± 1.7 |  | 185.8 ± 1.7 | 175.4 ± 1.7 | 217.0 ± 1.7 |
| Expt. 2 | Ambient | - | 115.9 ± 0.2 |  | - | 154.5 ± 0.2 | 193.8 ± 0.2 |
| Piling | 171.1 ± 1.3 | 141.2 ± 1.5 |  | 184.9 ± 3.1 | 175.0 ± 2.7 | 216.6 ± 2.7 |
| **Particle motion** |  |  |  |  |  |  |
| **Expt.** | **Sound Playback****Treatment** | **PM (dB re 1 µm s-2)** |  | **SEL (dB re 1 (μm s-2)2 s)** |
| **pk** | **RMS** |  | **SELss** | **SEL** | **SELcum** |
| Expt. 1 | Ambient | - | 56.6 ± 0.2 |  |  | 106.4 ± 0.2 | 139.8 ± 0.2 |
| Piling | 82.7 ± 3.4 | 62.7 ± 2.2 |  | 118.8 ± 3.3 | 109.1 ± 2.2 | 154.1 ± 3.3 |
| Expt. 2 | Ambient | - | 56.7 ± 0.2 |  | - | 106.6 ± 0.2 | 139.9 ± 0.2 |
| Piling | 84.6 ± 2.6 | 64.0 ± .2.0 |  | 120.0 ± 2.7 | 110.4 ± 2.0 | 155.9 ± 2.7 |