**Table S3. Comparison of model parameter estimates from the previous actively-filtered assay (Nichols et al. 2025) and the membranes in passive environmental DNA samplers (PEDS).** Posterior mean and 95% credible interval (CI) for model regression coefficients: probability of true capture (*θ*11), false-positive inference capture (*θ*10), true detection (*p*11), and false-positive test detection (*p*10). The probabilities of false-negatives at the field stage (1-*θ*11) and laboratory stage (1-*p*11) are the complements of *θ*11 and *p*11, respectively.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **True capture****(*θ*11)** | **False-negative capture****(1- *θ*11)** | **False-positive capture****(*θ*10)** | **True detection****(*p*11)** | **False-negative detection****(1- *p*11)** | **False-positive test detection****(*p*10)** |
| Active(Nichols et al. 2025) | 0.89 (0.70, 1.0) | 0.11 (0, 0.30) | 0.03 (0, 0.10) | 0.94 (0.80, 1.0) | 0.06 (0, 0.20) | 0.02 (0, 0.10) |
| PEDS | 0.90 (0.70, 0.98) | 0.10 (0.02, 0.30) | 0.07 (0.01, 0.21) | 0.76 (0.54, 0.91) | 0.24 (0.09, 0.46) | 0.04 (0.01, 0.11) |