Supplemental Material

Supplemental Table 1. PCDD, PCDF, and PCB congeners included in the TEF methodology

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| **REP Compound** |
|  |
| 1,2,3,7,8-PeCDD |  |
| 1,2,3,4,7,8-HxCDD |  |
| 1,2,3,6,7,8-HxCDD |  |
| 1,2,3,7,8,9-HxCDD |  |
| 1,2,3,4,6,7,8-HpCDD |  |
| OCDD |  |
| TCDF |  |
| 1,2,3,7,8-PeCDF |  |
| 2,3,4,7,8-PeCDF |  |
| 1,2,3,4,7,8-HxCDF |  |
| 1,2,3,6,7,8-HxCDF |  |
| 1,2,3,7,8,9-HxCDF |  |
| 2,3,4,6,7,8-HxCDF |  |
| 1,2,3,4,6,7,8-HpCDF |  |
| 1,2,3,4,7,8,9-HpCDF |  |
| OCDF |  |
| PCB77 |  |
| PCB81 |  |
| PCB126 |  |
| PCB169 |  |
| PCB105 |  |
| PCB114 |  |
| PCB118 |  |
| PCB123 |  |
| PCB156 |  |
| PCB157 |  |
| PCB167 |  |
| PCB189 |  |



Figure S1. Violin plots: Estimated distributions for the constant measurement error SD σε in the unweighted model (to the left of the dotted vertical line), and for each of the quality-related measurement-error SDs σ1, σ2, …, σ5.5 in the weighted model. Note that these are in log10-REP units (i.e., orders of magnitude). These SDs represent square-root inverse quality weights.

Graphical user interface

Description automatically generated

Figure S2. Heatmap of RF-predicted probabilities that each study falls into each quality category. Rows are studies; columns are quality categories.