

## Supporting Information

### **ABBREVIATIONS**

ANT: Anthracene, BaA: Benz(a)anthracene, BaP: benzo(a)pyrene, BbF: Benzo(b)fluoranthene, BC: Black carbon, BeP: Benzo(e)pyrene, BghiP: Benzo(ghi)perylene, BkF: Benzo(k)fluoranthene, CHAAMS: Cape Hedo Atmosphere and Aerosol Monitoring Station, CHR: Chrysene, COR: Coronen, DahA: Dibenz(a,h)anthracene, DISP: Displacement, FLT: Fluoranthene, GC/MS: Gas chromatography/mass spectrometry, IcdP: Indeno(1, 2, 3-cd)pyrene, PAHs: Polycyclic aromatic hydrocarbons, PHE: Phenanthrene, PMF: Positive matrix factorization, PYR: Pyrene, RET: Retene, S/N: Signal-to-noise ratio, TAP: Transboundary air pollution, TSP: Total suspended particle