Alkylphenol (AP) Contamination in the Different Characterized Environmental Matrices in Water Treatment Effluent Outlets of the Marseille Coastal Area, France

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concentrations at each station of 62.93 mu g.kg(-1), 28.09 mu g.kg(-1), and 117.58 mu g.kg(-1), respectively. The stations beyond the plume measured levels of 33.67 mu g.kg(-1), 11.11 mu g.kg(-1) and 23.89 mu g.kg(-1), respectively. These chemicals were also found principally in soil samples with average concentrations of each isomer distributed at 6 stations at amounts of 48.08 mu g.kg(-1), 19.49 mu g.kg(-1) and 339.13 mu g.kg(-1) exposed to the prevailing wind, while at stations protected from predominantly high winds, concentrations ranged from 5.8 mu g.kg(-1) to 41.41 mu g.kg(-1). The most wide-ranging measurement is for the occurrence of these APs in aerosol samples, which were detected at levels of 0.81 to 8.46 ng.m(-1). In addition, 4 tert-OP and 4 n-OP were not detected in these samples. The most elevated isomers found in this study were NP1 (28.44%) and NP3 (57.54% within the three different matrices. According to the predicted no-effect concentrations (PNECs), these concentrations in the sediments exceeded the PNEC value, which indicates that they are likely to exert an adverse effect on benthic organisms.
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