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Location	Information	Concentration (ng/g)	Lab Instrumentation	Detection Limit
New Territories and	In August and September 2021,	The concentrations of 6PPD and	Analytical: UHPLC Triple	IQL:
Kowloon, Hong Kong	researchers collected 12 samples of	6PPD-q in roadside soil were	Quadrupole Mass Spectrometry	6PPD: 0.035 ng/mL
(Cao et al. 2022)	roadside soil on nonrainy days and	found to be [median (range)]:		
	analyzed them for a range of			6PPD-q: 0.023 ng/mL
	antioxidants and transformation	6PPD: 309 (31.4–831)		
	products, including 6PPD and	6PPD-q: 234 (9.50–936)		
	6PPD-q. 6PPD-q is the primary			
	quinone present in soil, comprising			
	75.7% of the total PPD-q detected in			
	roadside soil samples.			

Notes: IQL=instrument quantification limit, ng/g=nanograms per gram, PPD-q=para-phenylenediamines-quinones, UHPLC=ultra-high-performance liquid chromatography

References (Marques dos Santos and Snyder 2023)

- Cao, Guodong, Wei Wang, Jing Zhang, Pengfei Wu, Xingchen Zhao, Zhu Yang, Di Hu, and Zongwei Cai. 2022. "New Evidence of Rubber–Derived Quinones in Water, Air, and Soil." *Environmental Science & Technology* 56 (7): 4142–50. https://doi.org/10.1021/acs.est.1c07376.
- Marques dos Santos, Mauricius, and Shane Allen Snyder. 2023. "Occurrence of Polymer Additives 1,3-Diphenylguanidine (DPG), N-(1,3-Dimethylbutyl)-N'-Phenyl-1,4-Benzenediamine (6PPD), and Chlorinated Byproducts in Drinking Water: Contribution from Plumbing Polymer Materials." *Environmental Science & Technology Letters*, September. https://doi.org/10.1021/acs.estlett.3c00446.