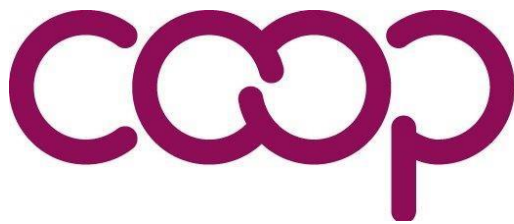


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& ΜΕΛΕΤΩΝ (ΙΣΕΜ)

Analysis and Strategy on Water Contamination Risk and Vistas Limitation of Heritage Landscapes toward Urban Built Environment (Case Study: Hampstead Heath Ponds, London UK)

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Abstract:

This research aims to utilise spatial perspective and analysis to establish suitable preventive strategies on Water Contamination Risk and Vistas Limitation of Hampstead Heath Ponds toward Urban Built Environment. The expected implications in the future are: (1) Preserved good natural quality, views and vistas of the Hampstead Heath ponds. (2) The controlled development rate of buildings around the conservation areas of the heath. (3) Strong bound and collaborative works of related organisations on heritage preservation. The data was obtained from several main sources: OpenStreetMap, UK Open Government License, and Historic England. Proximity analysis as a part of the spatial analysis was performed to calculate the relationship between each observed pond and its surrounding buildings which can lead to issues of water quality and vistas limitation of ponds that can reduce the natural beauty and heritage values of the heath. Some recommendations address the issue such as environmental data record, monitoring, and environmental engineering to maintain the water quality as well as stakeholder identification and approach to build a legit collaboration in land use management. These implementations are expected to contribute to suitable preventive strategies to address the issues of water quality and vistas limitation related to the main four realms of sustainability.

Keywords: Hampstead Heath, heritage landscape, spatial analysis, stakeholders mapping.

This abstract is submitted for individual paper presentation

