

**Poster Number**

<b>8</b>
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<b>Topic</b>	Risk assessment: Problem definition and conceptual model
<b>Title</b>	<b>Characterization of DDT and Mercury Contaminated Sediment in Toce River And Lake Maggiore (Pallanza Bay, Italy)</b>
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**Keywords:** Sediments, risk assessment, DDT, mercury, Italy

**Summary:** Manufacturing facilities settled in the first half of 1900 along the River Toce, about 20 km from Pallanza Bay (Lake Maggiore). To evaluate the need for remedial action in Lake Maggiore (North Italy) and in its tributary (Toce River), sediment characterization activities were performed in 2009–2010. To support decision-making about Lake Maggiore sediment, a sediment characterization plan was prepared and work was performed to understand DDT and mercury levels in surficial sediments in the river and bay. Sampling work, data interpretation, and a health ecological risk assessment were performed according to international guidelines. The purpose of the work was to investigate temporal and spatial distribution of DDx and mercury in sediment and their influence on lake ecosystems, with the objectives of evaluating potential ecological risk and assessing the need for sediment remediation.