## Potential Sources of DDT and Its Metabolites Within the Range of the Eastern North Pacific Southern Resident Killer Whales



The National Oceanic and Atmospheric Administration (NOAA) has determined that one of the primary potential risk factors for the Southern Residents is pollution in their habitat. To address this risk, NOAA gathered and analyzed marine sediment quality data from the Sediment Quality Information System (SEDQUAL) managed by the Washington State Department of Ecology and Marine Sediment Data for the Middle and Hylebos Waterways in Commencement Bay, Tacoma, Washington, and Harbor Island Site, Seattle, Washington, managed by the U.S. Environmental Protection Agency, Region 10.

NOAA integrated the marine sediment quality data from these sources into a geodatabase. In some instances, the data from these datasets were excluded from subsequent analysis because no sampling location information was available (e.g., latitude and longitude), the data did not address sediment samples or contaminants of interest, or the data could not be integrated readily into the geodatabase.

NOAA then used the data in the geodatabase to identify locations where sediment samples have been analyzed for DDT (dichlorodiphenyltrichloroethane) and its metabolites, dichlorodiphenyldichloroethane (DDD) and dichlorodiphenyldichloroethylene (DDE). No Washington State Sediment Quality Standards (WAC 173204) exist for these compounds, however a screening level for these compounds in sediment has been developed by the U.S. Army Corps of Engineers (U.S. Army Corps of Engineers 2000). Therefore, NOAA identified those locations where analysis of sediment samples detected DDT and its metabolites at concentrations below and above this screening level.


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References:

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