

Instructor's Answer Key - Handout 1

Case Study: Tidal Bay Ecological Assessment

1. *What are the benefits of comparing contaminant concentrations and biological impacts in Tidal Bay sediments with those of a reference area?*

By expressing all chemical and biological measures as changes (increases or decreases) relative to a "normal" ecosystem (Shipshape), comparisons can be made that provide a sound basis for identifying and quantifying effects. Comparing results with a reference area allows investigators to determine not only what is not "normal" in the study area, but also how much weight to place on the changes.

2. *What are some of the limitations (problems) associated with the use of a reference area and with the choice of Shipshape Inlet as this area?*

Shipshape Inlet differs in sediment type from Tidal Bay, and although it may be the least polluted area of those studied in the basin, it is hardly a pristine environment unaltered by urbanization and industrialization. Furthermore, comparing a complex biological response such as benthic macroinvertebrate community change with a reference site requires reducing the data to a single value(s), which results in a substantial loss of data.

3. *Can you think of another approach that would work?*

If Tidal Bay contained only one or possibly two specific wastes, the contaminant concentrations and biological measures of their impact on the ecosystem could be compared with toxicity and risk levels published in the literature or in government databases. It is not known, however, how complex chemical mixtures interact to possibly increase or decrease the effects of individual chemicals. Further, the exact combination of chemicals in Tidal Bay may be unique. So, under these circumstances, the use of a reference area is probably the best choice.

4. *What impact do you think the presence of multiple types of hazardous waste will have on the ability of investigators to establish a cause-and-effect relationship between specific chemicals and adverse biological changes in Tidal Bay?*

Ideally, characterization of ecological impacts from hazardous waste is supported by definitive cause-and-effect relationships between specific chemicals and biological endpoints. Almost no information is available for establishing cause and effect for chemical mixtures, however, so they will not be able to determine specific cause and effect relationships. In lieu of a standardized approach for assessing ecological impacts of complex chemical mixtures, the Tidal Bay investigators developed relative measures of effect based on the reference area.

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