

Board of Scientific Counselors (BOSC)

Draft Charge Questions

Topic 2 – Waste and Sustainable Materials Management

Charge Question 1:

SHC expanded its research on life cycle inventories and methodologies in response to OLEM, regional, and state priorities under the Resource Conservation and Recovery Act (RCRA), which focuses on reducing material use at the source and recovering and reusing valuable materials from waste streams. ORD is focusing on the development of US-Environmentally-Extended Input-Output (USEEIO) economy-wide life cycle models to support key functionalities of various waste reduction, recovery, and reuse tools, as well as potential refinements or enhancements to the underlying datasets and models of those tools. What recommendations does the BOSC have to improve ORD's USEEIO life-cycle model? What recommendations can the BOSC SC offer to facilitate increased usability of ORD's life cycle inventories and methodologies by EPA and state- or tribal-delegated programs?

Charge Question 2:

SHC expanded its research on waste recovery and beneficial reuse in response to OLEM's priorities of improved methods for sorting construction and demolition materials for reuse, and regarding source-term development to evaluate potential leaching from beneficial use, land disposal, and remediation. ORD research addresses effective and efficient materials reuse, protecting health and the environment while reducing natural resources consumption, waste generation, and the volume of materials disposed into landfills. What recommendations can the BOSC offer to facilitate increased usability of ORD's construction and demolition materials research by EPA and state- or tribal-delegated programs? What recommendations can the BOSC offer to improve future leaching predictions through increased use of the Leaching Environmental Assessment Framework (LEAF)?