



Ecological Risk Assessments

Capabilities

MDEQ Part 201 Sediment Quality Assessments

RCRA Corrective Action ERAs

Superfund ERAs

Surface Water and Sediment Acute and Chronic Toxicity Testing

Extensive Field Sampling Equipment

Vibracore Sediment Sampling Equipment

Bioaccumulation and Nutrient Testing

Benthic Macroinvertebrate Surveys

Fish Population Studies

Habitat and Wetland Evaluations



Clients

Petroleum Storage and Refining

Automotive Parts Manufacturing

Chemical Processing

Petroleum Storage and Refining

Metal Processing and Foundries

U.S. Department of the Army

Ecological Risk Assessments (ERAs) involve the integration of a variety of environmental disciplines including environmental toxicology, environmental chemistry, and aquatic/terrestrial ecology. For over 20 years, GLEC researchers have conducted ERAs of wetlands, lakes, and streams for RCRA Corrective Action sites, Superfund Sites, and state monitored sites in Michigan, Ohio, and several other states.

For ERA studies, GLEC utilizes the multiple lines of evidence or triad approach, which integrates surface water/sediment toxicology and chemistry data with ecological and biological data. GLEC researchers also recognize that even though ERAs have a prescribed framework, consideration of site-specific issues in study designs often contributes to more accurate and meaningful findings.

GLEC owns and operates a wide array of field sampling equipment for ERAs, including seven specialized sampling boats, Vibracore sediment samplers, and backpack and boat mounted electro-

fishing equipment. Our Michigan and Ohio aquatic toxicology laboratories are fully equipped to perform acute and chronic toxicity evaluations, bioassays, and biomonitoring of surface water, whole sediment, sediment elutriate, sediment porewater and single compounds using vertebrate and invertebrate test species. GLEC's benthic and environmental chemistry laboratories round out our ability to manage all aspects of an ERA and deliver scientifically sound results.



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