

## AQUATIC RISK ASSESSMENT

Operations and facilities associated with impacts to an aquatic environment can become a serious liability. Aquatic risk assessment yields information to support important, cost-saving decisions. In the absence of aquatic risk assessment, an operator is too often provided with few options other than a costly remediation plan. Through understanding the nature of contamination and the aquatic habitat, it becomes possible to evaluate economically and technically feasible options for environmentally protective actions.

Aquatic risk assessment characterizes the nature and extent of a contaminant of potential concern in the aquatic environment. It provides a means to link possible chemical exposures, resulting toxic effects and aquatic receptors such as fish or other organisms. Through the risk assessment process, Matrix can predict the probability of an adverse effect to the aquatic environment and use this relationship to develop a cost-effective plan to successfully manage a contaminated site.

Matrix provides a full-service aquatic risk assessment package to meet your site requirements:

- Delineation of contamination in surface water, groundwater and/or soils;
- Biological assessment of aquatic communities and identification of receptors including fish and benthic organisms;
- Water and sediment quality monitoring;
- Sampling for toxicity testing;
- Liability assessment;
- Full support services to ensure rapid, cost-effective data gathering and analysis (e.g., drafting, GIS, data management, and document services); and
- Scientifically defensible reporting to support cost-effective solutions for our clients and attain regulatory acceptance.



## What We Offer

Matrix is known in the industry for developing innovative solutions that provide value for our clients:

- Cost-effective options for managing contaminated sites;
- Highly-experienced professionals that understand complex and dynamic environmental systems;
- Enhanced communication with regulators, government agencies and stakeholders;
- Scientifically defensible options that are acceptable to regulators; and
- Characterization of liability and risk.