



Environmental Risk Assessment

Why choose AEL?

- **ON-SITE TESTING**

AEL leads the environmental consulting industry with innovative on-site testing approaches using XRF, UVF, and the Waterloo Profiler

- **RESPONSIVE SOLUTIONS**

AEL's RAs and ESAs are custom designed for each unique site, offering the best value and most effective solutions

- **EXPERT TEAM**

AEL's team of senior engineers, risk assessors, hydrogeologists, field scientists, geoscientists, GIS and data experts, and support personnel have expertise covering all facets of environmental engineering.



Risk Assessment and Risk Management Measures

When a property does not meet generic environmental criteria, AEL utilizes risk assessment strategies to bring the property into regulatory compliance. Risk Assessment (RA) calculates the probability that a hazard (like environmental contamination of the soil) will cause harm to humans, plants, wildlife, or the surrounding environment under specific exposure conditions. This calculation made by expert risk assessor staff in conversation with the MOE, helps to create property-specific standards that will protect the uses that are being proposed for the site.

Time: An RA can take anywhere from several weeks to many months, as certain data must be gathered from the site

before submitting an RA. AEL can help determine the time required for your unique site.

Cost: An RA can be significantly less expensive than traditional remediation on simple or complex sites. Cost depends on the environmental impacts, the site features, and other remedial options.

Risk Management Measures: are process to control or reduce the risk estimated by the RA. This could mean creating a barrier to prevent exposure, like putting an asphalt parking lot on top of contaminated soil. Risk Management Measures depend on the property owner's goals for the site and are customized to the conditions.