IN late 2013, SECURE was contracted to assess the remediation needs of an abandoned battery site in NE Alberta, which had 2 drilling waste disposal areas, 3 flare pits, battery infrastructure, AST’s and 2 well centers. We were tasked with identifying and executing a remediation program. The site had soils in several areas which were above regulatory guidelines - some affected by hydrocarbons and others by salts. Through the utilization of the Alberta Subsoil Salinity Tool, subsoil standards and pathway elimination SECURE requested and received approval from AER to remix the soils from several of the contaminated areas in order to have them meet criteria. Far less soil than originally anticipated had to be hauled away to landfill.

8815m$^3$ soil above regulatory guidelines
5446m$^3$ soil affected by hydrocarbons
1536m$^3$ soil affected by salinity
6266m$^3$ soil saved from landfill

Solution: The implementation of an in-depth risk assessment plan by experienced environmental personnel meant SECURE was able to stay within the million dollar budget. This saved the client a substantial amount of money that would have been needed to send all of the soil to landfill. This site is now completely remediated.

CHALLENGES

Poor access conditions during warmer periods of year necessitated completing the project during the winter months. This created problems in dealing with frozen soil during much of the work, specifically during the remix stages of the project. SECURE found a way.