

Investigation of Potential Source Areas at Energizer, St. Albans, Vermont



Services / Expertise

Remedial Site Investigation / Phase II ESA
High Resolution Site Characterization
Quality Assurance Project Plan (QAPP)
Health & Safety Plan (HASP)
Vapor Intrusion Assessment
Remedial System Monitoring
Stormwater Inspection

Markets

Property Owner
Environmental Consultants

Project Location

St. Albans, Vermont

Date Completed

2014 - present

Project Owner

Energizer, Inc.

Project Manager

Lee Rosberg

Project Team

Daniel Voisin
Laura Rajnak

Subcontractors

Eurofins-TestAmerica



On-Site analysis of air samples at the former Energizer facility in St. Albans, Vermont using a field portable gas chromatograph/mass spectrometer.

ENERGIZER BATTERY MANUFACTURING, INC. operated a battery and flashlight manufacturing facility in St. Albans, Vermont from 1947 until 2013. Manufacturing processes utilized bulk quantities of the chlorinated solvent trichloroethylene (TCE), primarily for degreasing and parts cleaning. Storage and use practices at the facility resulted in releases of TCE to building materials and the subsurface. Stone was retained by Energizer's primary environmental consultant, Environmental Resource Management (ERM), as a specialty contractor to perform vapor intrusion and indoor air assessments at the site to support remedial design of a vapor intrusion mitigation system. Stone utilized fixed-based laboratory analysis and a field portable gas chromatograph/mass spectrometer (GC/MS) for on-site analysis of sub-slab soil gas, indoor air, and mass flux samples to identify vapor intrusion pathways and determine whether the building slab could serve as a long-term indoor air contaminant source. Sampling was conducted under varying heating, ventilation, and air conditioning (HVAC) operational settings to determine optimal HVAC settings to support vapor intrusion mitigation. Stone performed indoor air sampling and remedial system performance monitoring following the installation of six sub-slab depressurization systems.

Stone's other professional services at the site include groundwater monitoring of a chlorinated solvent plume, annual inspections of the site stormwater system as required under General Permit #3-9010.R, and annual groundwater monitoring to track per- and polyfluoroalkyl substances (PFAS) concentration trends.