

Killington Resort Area Initial Site Investigation for Per & Polyfluoroalkyl Substances in Drinking Water and Surface Water

STONE
ENVIRONMENTAL
100% EMPLOYEE-OWNED

Services / Expertise

DEC Program Oversight
PFAS Monitoring
Groundwater Investigation
Site Specific Health and Safety Plan (HASP)
Initial Site Investigation Work Plan (including Conceptual Site Model)
Initial Site Investigation Report

Markets

State Government

Project Location

Killington, Vermont

Date Completed

2020–Present

Project Owner

Vermont Department of Environmental Conservation

Project ID#

20-075

Project Manager

Katrina Mattice, PE
kmattice@stone-env.com

Project Team

Michael Smith
Daniel Voisin
Laura Rajnak
Sarah Rathay



Killington Resort snow making pond, January 2021.

ACT 21 regulates per- & polyfluoroalkyl substances (PFAS) in public drinking water systems in Vermont as passed in 2019. In the Killington Resort area (Killington, Vermont), the State detected PFAS in several public drinking water systems served by bedrock wells above the maximum contaminant level (MCL). The public transient non-community (TNC) water systems include Killington Mountain School, Killington Village Inn, and Chalet Killington. In response to the PFAS exceedances in public drinking water, Stone performed an initial site investigation of the Killington Resort Area. The initial site investigation was performed from 2020 through 2021 and included a desktop review of the historical use of PFAS in the area to identify source areas and a drinking water supply and surface water assessment within a 1/2-mile radius plus 500 feet to the north and south from Killington Mountain School.

Results of the initial site investigation indicated that one additional public water supply and one private water supply had PFAS levels above the MCL and Vermont Groundwater Enforcement Standards (VGES). PFAS was also detected in surface water. Stone identified suspected source areas based on historical use and composition of PFAS detected at each location.

In 2021, in response to the results of the initial site investigation, VT DEC requested funding from the Environmental Protection Agency to perform a preliminary assessment/site inspection of the Killington Resort Area and nearby Summit Lodge. The site inspection, anticipated for 2023, will include an overburden assessment of both soil and groundwater. Additionally, the Vermont Geological Survey will perform surficial bedrock mapping, spatial analysis of well reports, geophysical logging of bedrock wells, and chemical tracing to identify potential groundwater and PFAS transport pathways in bedrock.

