**Lake Champlain Basin Program**

**Quarterly Report**

**October 10, 2018**

**Organization Name:** Stone Environmental, Inc.

**Project Name:** Assessment of Tile Drainage System Impacts to Lake Champlain and Phosphorus Loads in Tile Drainage in the Jewett Brook Watershed of St. Albans Bay

**NEI Job Code:** 0100-310-002

**Project Code:** L-2016-060

**Final Report Due Date:** September 2018

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**Summary of Activities:**

***Task 1: Literature Review Examining Tile Drainage Systems***

Completed.

***Task 2: Assessment of Tile Drainage Systems in the Jewett Brook Watershed***

Completed.

***Task 3: Phosphorus Load Estimation of Tile Drainage Systems in the Jewett Brook Watershed***

A tremendous effort was devoted in the last quarter to completing tile drain flow data and concentration data processing to compute phosphors concentrations and loading from the tile drains. Statistical analyses of associations among the water quality and agronomic variables were also completed.

**Project Status:**

The final report for this project is partially complete. Within the last week the final piece of the analysis, the tributary loading calculations, were completed. A request was made for a short extension in the final report due date

**Challenges Encountered:**

None.

**Work Anticipated Next Quarter:**

In the next quarter, the nutrient loading data will be summarized by season and year. Estimates will be made of P export from Jewett Brook during the corresponding period and the relative proportion of P loading attributable to tile drains will be evaluated. Statistical associations between the P loading data and agronomic variables will be analyzed.