

**NEW ENGLAND TRANSPORTATION CONSORTIUM  
QUARTERLY PROJECT PROGRESS REPORT**

- A. PROJECT NUMBER AND TITLE:** NETC 19-2, Multi-Scale Multi-Season Land-Based Erosion Modeling and Monitoring for Infrastructure Management
- B. PRINCIPAL INVESTIGATOR(s) & UNIVERSITY(s):** Christopher Snow, GZA and Aimee Mountain, GZA
- C. WEB SITE ADDRESS (If one exists):** None
- D. START DATE (Per NETC Agreement):** February 13, 2020
- E. END DATE (Per NETC Agreement):** January 1, 2022
- F. ANTICIPATED COMPLETION DATE:** January 1, 2022
- G. PROJECT OBJECTIVES:** The objective of this research project is to develop a slope stability model that will be used to create an effective multi-scale assessment toolkit that aids in monitoring, forecasting, and prioritizing areas of erosion and slope instability.
- H. REPORT PERIOD:** July 1, 2020 – September 30, 2020
- I. ACCOMPLISHMENTS THIS PERIOD:** A project status meeting was held on September 24, 2020. Task 2 – Analysis and Modeling is underway. Modeling approach was presented at the September 24, 2020 meeting and the model is being tested on a subset of data.
- J. PROBLEMS ENCOUNTERED (If any):** None
- K. TECHNOLOGY TRANSFER ACTIVITIES:** No activities during the reporting period.
- L. STATUS BY TASK:**

<b>Task</b>	<b>Description</b>	<b>Anticipated Completion</b>	<b>% Complete</b>
Task 1	Literature Review & Survey	June 30, 2020	100%
Task 2	Analysis and Modeling	December 31, 2020	85%
Task 3	Ground Truthing & Monitoring	February 28, 2021	Not Started
Task 4	Toolkit Development	September 30, 2021	Not Started
Task 5	Finalize Toolkit	October 31, 2021	Not Started
NETC Technology Transfer	Implementation Plan, Technology Transfer Strategy, and Toolkit	December 1, 2021	Not Started
Final Report	Summary of findings, recommendations, toolkit and model description	January 1, 2022	Not Started
<b>Overall:</b>			<b>29%</b>

- M. PERCENT COMPLETION OF TOTAL PROJECT:** 29%

**N. ACTIVITIES PLANNED FOR NEXT QUARTER:** Next quarter we anticipate completing Task 2 – Analysis and Modeling and starting work on Task 3 – Ground Truthing and Monitoring.

**O. FINANCIAL STATUS:**

*As of: September 25, 2020*

**Total Project Budget:** \$148,035.42

**Total Expenditures:** \$42,849.44