

**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):**
<https://www.newenglandtransportationconsortium.org/projects/netc-19-2/>
- 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:** October 1, 2020 – December 31, 2020
- I. ACCOMPLISHMENTS THIS PERIOD:** Task 2 – Analysis and Modeling has been completed and the Task 2 memo was delivered on December 29, 2020. Task 3 – Ground Truthing & Monitoring is underway, and model has been tested on a subset of data in Auburn, Maine.
- J. PROBLEMS ENCOUNTERED (If any):** None
- K. TECHNOLOGY TRANSFER ACTIVITIES:** No activities during the reporting period.
- L. STATUS BY TASK:**

Task	Description	Anticipated Completion	% Complete
Task 1	Literature Review & Survey	June 30, 2020	100%
Task 2	Analysis and Modeling	December 31, 2020	100%
Task 3	Ground Truthing & Monitoring	February 28, 2021	35%
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
Overall:			37%

- M. PERCENT COMPLETION OF TOTAL PROJECT:** 37%

N. ACTIVITIES PLANNED FOR NEXT QUARTER: Next quarter we anticipate having a status update meeting with the Technical Committee, completing Task 3 – Ground Truthing and Monitoring and starting work on Task 4 – Toolkit Development.

O. FINANCIAL STATUS:

As of: December 25, 2020

Total Project Budget: \$148,035.42

Total Expenditures: \$54,364.25