

**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 Bin Wang, GZA
- C. WEB SITE ADDRESS (If one exists):** None
- D. START DATE (Per NETC Agreement):** February 13, 2020
- E. END DATE (Per NETC Agreement):** February 28, 2022
- F. ANTICIPATED COMPLETION DATE:** February 28, 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, 2021 – December 31, 2021
- I. ACCOMPLISHMENTS THIS PERIOD:** Work on Task 5 - Finalize System Toolkit has completed and the Task 5 memo was submitted on December 8, 2021. Work on the Final Report and Technology Transfer are underway. A draft Final Report was submitted to the Technical Committee on October 20, 2021, the final technical Committee Meeting was held on November 3, 2021, and a Webinar was given on December 8, 2021.
- J. PROBLEMS ENCOUNTERED (If any):** None
- K. TECHNOLOGY TRANSFER ACTIVITIES:** A webinar was held on December 8, 2021.
- 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	100%
Task 4	Toolkit Development	September 30, 2021	100%
Task 5	Finalize Toolkit	October 31, 2021	100%
NETC Technology Transfer	Implementation Plan, Technology Transfer Strategy, and Toolkit	February 28, 2022	40%
Final Report	Summary of findings, recommendations, toolkit and model description	February 28, 2022	85%
Overall:			90%

- M. PERCENT COMPLETION OF TOTAL PROJECT:** 90%

N. ACTIVITIES PLANNED FOR NEXT QUARTER: Next quarter we anticipate completing the technology transfer activities and finalizing the final report.

O. FINANCIAL STATUS:

As of: December 31, 2021

Total Project Budget: \$148,035.42

Total Expenditures: \$131,231.26