NEW ENGLAND TRANSPORTATION CONSORTIUM
QUARTERLY PROJECT PROGRESS REPORT

A. PROJECT NUMBER AND TITLE: NETC 15-1, Use of Forested Habitat Adjacent to Highways by Northern Long-Ear(ed) Bats

B. PRINCIPAL INVESTIGATORS & UNIVERSITIES:
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C. WEBSITE ADDRESS: fozlab.weebly.com

D. START DATE: 12/1/2016

E. END DATE: 11/30/2018

F. ANTICIPATED COMPLETION DATE: 11/30/2018

G. PROJECT OBJECTIVES: Our overall objective addresses several major gaps in the knowledge of Northern long-eared bat (NLEB; *Myotis septentrionalis*) distributions and activity as they relate to the use of highway habitat in New England.

The research objectives will be achieved by accomplishing 8 tasks:
- Task 1. Literature review on NLEB habitat requirements and effects of anthropogenic disturbance, focusing on the effects of roadways.
- Task 2. Develop a "Zone of Influence" matrix for highway induced stressors.
- Task 3. Compile existing data on NLEB and other rare bat species distributions.
- Task 4. Request presence/absence data from State Depts of Transportation and other sources.
- Task 5. Determine land cover (habitat) being used or not used by NLEB.
- Task 6. Determine data gathering needs to improve model inference.
- Task 7. Identify data gaps in sampling of NLEB in specific habitats that may require additional data collection on presence/absence.
- Task 8. Develop screening tool and GIS model that would show zones of influence around highways.

H. REPORT PERIOD: October–December 2018

I. ACCOMPLISHMENTS THIS PERIOD:
-Finalized MYSE distribution modeling
-Submitted draft of Final Report

J. PROBLEMS ENCOUNTERED: None.

K. TECHNOLOGY TRANSFER ACTIVITIES: None

L. STATUS BY TASK:

Task 1. NLEB Literature review:	100%
Task 2. Develop a Zone of Influence matrix:	100%
Task 3. Compile NLEB distribution data:	100%
Task 4. Request presence/absence data:	100%
Task 5. Determine NLEB land cover use:	100%
Task 6. Determine additional data needs:	100%
Task 7. Identify presence/absence data gaps:	100%
Task 8. Develop GIS screening tool:	100%

M. PERCENT COMPLETION OF TOTAL PROJECT: 100 %

N. ACTIVITIES PLANNED FOR NEXT QUARTER:

None, project will be complete.

O. FINANCIAL STATUS:
As of: *November 30, 2018*
Total Project Budget: $ 164,970
Total Expenditures: $ 164,970