

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

**A. PROJECT NUMBER AND TITLE:**

NETC 20-3 Investigating Thermal Imaging Technologies and UAV to Improve Bridge Inspections

**B. PRINCIPAL INVESTIGATOR(s) & UNIVERSITY(s):**

Kevin Ahearn, PE, AECOM

**C. WEB SITE ADDRESS (If one exists):**

None

**D. START DATE (Per NETC Agreement):**

2/19/2021

**E. END DATE (Per NETC Agreement):**

3/31/2023

**F. ANTICIPATED COMPLETION DATE:**

3/31/2023

**G. PROJECT OBJECTIVES:**

Develop UAV-based inspection and analysis protocols using infrared thermal imaging to determine the existence and extend of concrete delamination, with emphasis on the underside of bridge decks.

**H. REPORT PERIOD:**

1st Quarter, 2022

**I. ACCOMPLISHMENTS THIS PERIOD:**

The Task 2 Interim Report was submitted on 2/14/22. Task 3 was initiated and is in the early stages.

**J. PROBLEMS ENCOUNTERED (If any):**

None

**K. TECHNOLOGY TRANSFER ACTIVITIES:**

None

**L. STATUS BY TASK:**

<b>Task</b>	<b>Description</b>	<b>% Complete</b>
Task 1	Desk scan of current technologies	100%
Task 2	Field demonstration of chosen IR/UAV models and data analysis	100%
Task 3	Develop inspection and analysis protocols	12%
Task 4	Draft final report, technology transfer strategy, and toolbox	Not started
Task 5	Final report	Not started

**M. PERCENT COMPLETION OF TOTAL PROJECT: 50%**

**N. ACTIVITIES PLANNED FOR NEXT QUARTER:**

The following activities are anticipated for the next quarter:

Task 3 will be progressed and is anticipated to be submitted 6/30/22.

**O. FINANCIAL STATUS:**

**As of:** *April 4th, 2022*

**Total Project Budget:** \$174,931.41

**Total Expenditures:** \$80,651.69

**Note: This report should not require more than 2-3 pages & should be e-mailed to the NETC Coordinator so as to arrive no later than three (3) working days after the end of each calendar quarter.**