

Public Quarterly Report

Date of Report: <4th Quarterly Report-September 25, 2020>

Contract Number: 693JK31910015POTA

Prepared for: Government Agency: PHMSA

Project Title: Improving the Reliability, Detection, and Accuracy Capabilities of Existing Leak Detection Systems (CPMs) Using Machine Learning

Prepared by: Southwest Research Institute

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For quarterly period ending: September 25, 2020

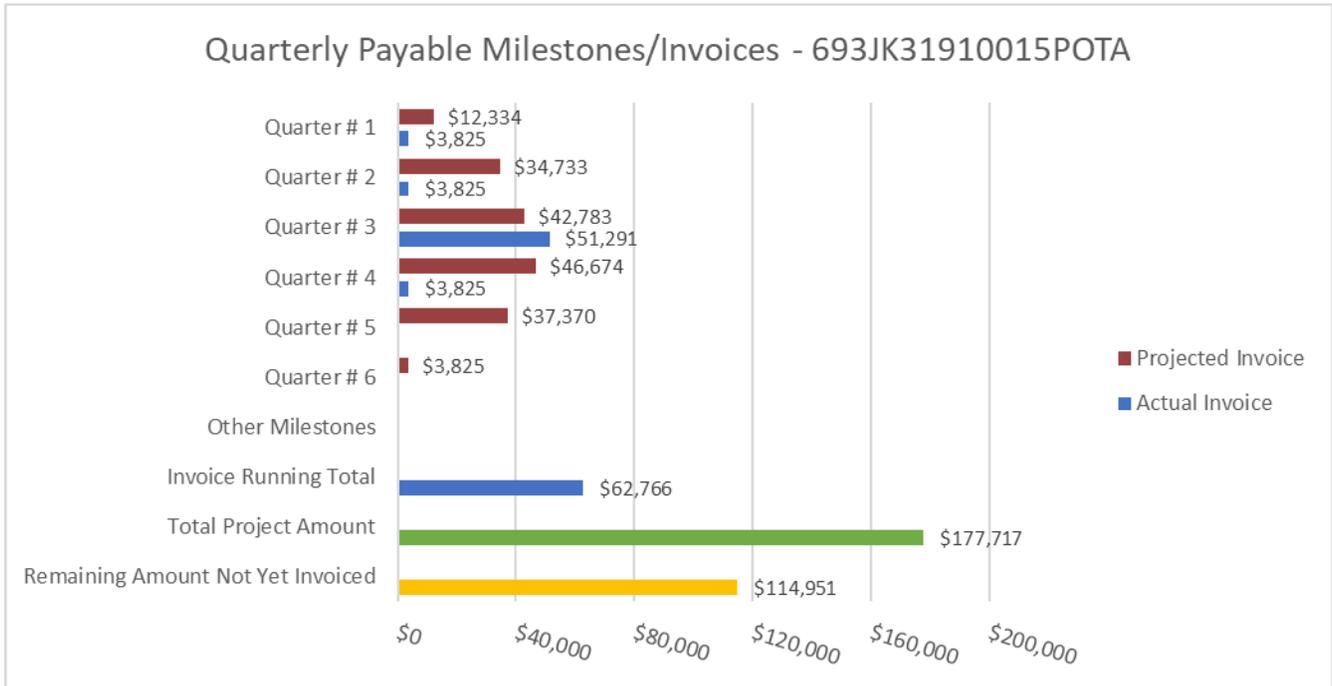
1: Items Completed During this Quarterly Period:

<i>Item #</i>	<i>Task #</i>	<i>Activity/Deliverable</i>	<i>Title</i>	<i>Federal Cost</i>	<i>Cost Share</i>
7	5	4 th Quarterly Status Report	Submit 3rd quarterly report	3,825.00	3,825.00

2: Items Not-Completed During this Quarterly Period:

<i>Item #</i>	<i>Task #</i>	<i>Activity/Deliverable</i>	<i>Title</i>	<i>Federal Cost</i>	<i>Cost Share</i>
3	2	Data Curation and Analysis Documentation	Data Curation and Analysis Completion - Summary provided in 2nd Quarterly Report	\$30,908.00	\$30,908.00
6	3	ML Algorithm Development Summary Documentation	ML Algorithm Development Documented in 4th Quarterly Report	\$42,848.50	\$42,848.50

3: Project Financial Tracking During this Quarterly Period:



4: Project Technical Status –

7 5 4th Quarterly Status Report Submit 3rd quarterly report

This report constitutes the fourth quarterly report for the Improving the Reliability, Detection, and Accuracy Capabilities of Existing Leak Detection Systems (CPMs) Using Machine Learning project, contract number 693JK31910015POTA. The Contract between the prime (PRCI) and the subcontractor (SwRI) has been finalized. Meetings continue to be held to discuss the technical activities. Steering Committee Meetings are held on the Third Wednesday of each month. The operators have begun providing data for analysis and the Data Curation and Analysis task has begun. The ML Algorithm Development task is beginning.

5: Project Schedule –

3 2 Data Curation and Analysis Documentation Documented in 1st Quarterly report Data Curation and Analysis Completion - Summary provided in 2nd Quarterly Report

Data has been collected from the operators and curation and analysis of the data is underway. A summary of this task will be provided in the next quarterly report.

6 3 ML Algorithm Development Summary Documentation ML Algorithm Development Documented in 4th Quarterly Report

The ML algorithm development is just beginning. The initial development will be completed within the next two quarters and a summary provided in the subsequent quarterly report.