

# Public Quarterly Report

**Date of Report:** <5<sup>th</sup> Quarterly Report-December 21, 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:** December 25, 2020

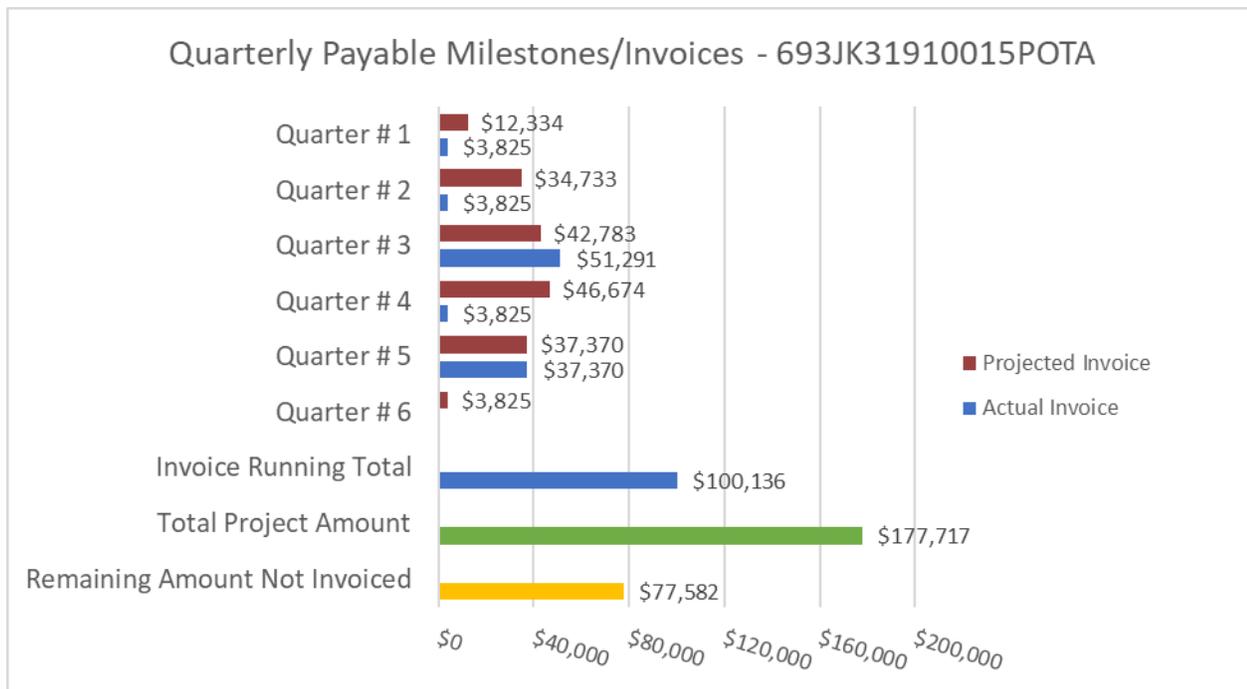
## 1: Items Completed During this Quarterly Period:

<i>Item #</i>	<i>Task #</i>	<i>Activity/Deliverable</i>	<i>Title</i>	<i>Federal Cost</i>	<i>Cost Share</i>
8	5	5 <sup>th</sup> Quarterly Status Report	Submit 5 <sup>th</sup> quarterly report	37,360.50	37,360.50

## 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 –

8 5<sup>th</sup> Quarterly Status Report Submit 5<sup>th</sup> quarterly report

This report constitutes the fifth 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 now held quarterly. The operators have provided an initial set of data for analysis, and a draft of the Data Curation and Analysis report has been delivered. However, pending completion of negotiations between PRCI and some of the operators, additional data may be received. Therefore, the Data Curation and Analysis report has not been finalized. The ML Algorithm Development task has begun with the available data.

### 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

An initial set of data has been collected from the operators and a draft version of the Data Curation and Analysis Documentation report has been delivered. 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 well underway. The initial development will be completed within the next quarter and a summary provided in the subsequent quarterly report.