

# MEMORANDUM

STATE OF ALASKA

*Department of Public Safety*

**To:** Nita Bolz  
Quality Assurance Manager

**Date:** December 24, 2014

**From:** Dale Bivins  
Physical Discipline Supervisor

**Subject:** Uncertainty Measurement Review

A review of the Measurement of Uncertainty for Firearm Barrel Length and Overall Length was completed on December 10, 2014.

The review consisted of the following:

The two analysts in the Firearms Discipline measured the Barrel Length and Overall Length of the guns used for the initial establishment of the measurement of uncertainty.

Each analyst took three measurements for Barrel Length and Overall Length for each gun. These measurements were spread over different days.

The same statistical analysis used to establish the initial uncertainty measurements were applied to these review measurements.

The initial Reported Uncertainty at a coverage probability of 99.73% was .276 inches. This was rounded up to a final +/- .3 inches for reporting.

For the review measurements, the Reported Uncertainty at a coverage probability of 99.73% was .273 inches. When rounded up, this also results in a final +/- .3 inches for reporting.

The +/- .3 inches uncertainty measurement remains unchanged.