

## RESOLUTION

Resolution No. 23-21

PATRON: Robert W. Lazaro, Jr  
Executive Director

DATE: March 23, 2023

### AUTHORIZATION TO ENGAGE AEM TO COMPLETE A FLOOD EARLY WARNING SYSTEM DESKTOP EVALUATION

WHEREAS, floods are one of the most common natural hazards in our region and can result in significant damage; and

WHEREAS, to monitor the trends, distribution and variability of the intense localized downpours and provide early flood warnings, Fairfax, Prince William and Arlington Counties as well as the City of Alexandria individually own and operate a network of precipitation gauges; and

WHEREAS, the gauges utilize a technology that allows for real time transmission of precipitation data via a radio network to a receiver and software program where it is collected and displayed; and

WHEREAS, AEM provides flood risk management solutions, products, and is the sole servicer of individually owned municipal precipitation networks; and


WHEREAS, AEM is the sole producer and provider of gauge-adjusted radar rainfall data to Fairfax and Prince William Counties; and

WHEREAS, the Northern Virginia Regional Commission received \$11,250 from the Community Flood Preparedness Fund to complete a Flood Prevention and Protection Study to assess the status of rain gauge networks in Northern Virginia; and

WHEREAS, AEM submitted a proposal to complete a review of existing rain and stream gauges and evaluate existing radar coverage in the region, summarizing findings in a technical memorandum;

THEREFORE BE IT RESOLVED, that the Northern Virginia Regional Commission authorizes the Executive Director to enter into a contract with AEM for a Flood Early Warning System Desktop Evaluation not to exceed \$11,250 over a four-month period.

#### CERTIFICATION

  
The undersigned certifies that the foregoing is a true and correct copy of a resolution adopted at a legally convened meeting of the Northern Virginia Regional Commission on March 23, 2023.

ROBERT W. LAZARO, JR., CERTIFYING OFFICER