



ROBERT L. QUINN  
COMMISSIONER OF  
SAFETY

## State of New Hampshire

DEPARTMENT OF SAFETY  
JAMES H. HAYES BLDG. 33 HAZEN DR.  
CONCORD, N.H. 03305  
(603) 271-2791

August 11, 2020

His Excellency, Governor Christopher T. Sununu  
and the Honorable Council  
State House  
Concord, New Hampshire 03301

### Requested Action

Pursuant to RSA 21-P:43, the Department of Safety, Division of Homeland Security and Emergency Management (HSEM) requests authorization to enter into a Memorandum of Agreement (MOA) with the Department of Environmental Services (DES) (VC#201164-B001) to support the Flood Hazards Program, which provides for two full-time and one part-time personnel, including associated benefits; necessary to support the program for the identification of river-induced public safety hazards in New Hampshire for a total amount of \$272,804.00. Effective upon Governor and Council approval through September 30, 2021. Funding source: 100% Federal Funds.

Funding is available in the SFY 2021 operating budget as follows:

02-23-23-236010-80920000	Dept. of Safety - Homeland Sec-Emer Mgmt	100% EMPG Local Match
072-500576	Grants to Other State Agencies - Federal	
Activity Code: 23EMPG 2019		\$272,804.00

### Explanation

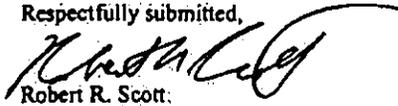
This Memorandum of Agreement (MOA) between the Division of Homeland Security and Emergency Management (HSEM) and the Department of Environmental Services (DES) supports the Flood Hazards Program for the identification of river-induced public safety hazards. To address the initiatives under this grant, the Flood Hazards Program staff will perform several activities including preparation, enhancement, and management of geoscience-based datasets to address flood hazards; provision of technical administration and management of the state stream crossing assessment initiative; and oversight of the New Hampshire Silver Jackets interagency flood risk management team in support of DES, HSEM, and other state agencies.

The MOA listed above is funded from the FFY 2019 Emergency Management Performance Grant (EMPG), which was awarded to the Department of Safety, Division of Homeland Security and Emergency Management (HSEM) from the Federal Emergency Management Agency (FEMA). The grant funds are to be used to measurably improve all-hazard planning and preparedness capabilities/activities; to include mitigation, preparedness, response, and recovery initiatives at the state and local level. Grant guidance and applications are available to all Emergency Management Directors and other qualified organizations in the State. Subrecipients submit applications to this office, which are reviewed by the HSEM Planning Chief, Assistant Planning Chief and Field Representatives and approved by the HSEM Director. The criteria for approval are based on grant eligibility in accordance with the grant's current guidance and the documented needs of the local jurisdictions.

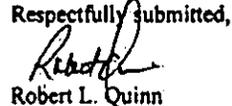
EMPG is 50% federally funded by FEMA with a 50% match requirement supplied by the subrecipient. The subrecipient acknowledges their match obligation as part of Part V of the Memorandum of Agreement.

In the event that Federal Funds are no longer available, General Funds and/or Highway Funds will not be requested to support this program.

Respectfully submitted,

  
Robert R. Scott  
Commissioner of Environmental Services

Respectfully submitted,

  
Robert L. Quinn  
Commissioner of Safety

**MEMORANDUM OF AGREEMENT (MOA)  
BETWEEN  
THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES  
AND  
THE NEW HAMPSHIRE DEPARTMENT OF SAFETY**

**FFY'19 Emergency Management Performance Grant (EMPG) Program**

**CFDA #97.042**

**Flood Hazards Program**

**I. PURPOSE**

The purpose of this Memorandum of Agreement (MOA) is to provide funding in the amount of \$272,804.00 to the Flood Hazards Program, which includes two full-time and one part-time personnel and associated benefits necessary to support the program of providing statewide expertise and Earth system science data, including geologic, groundwater hydrology and earth science to continue the contribution of understanding flooding hazards, while enhancing state agency and community benefits, through integration of these efforts. Additionally, the Flood Hazards Program provides administration of the NH Silver Jackets.

**II. PARTIES**

The parties to this agreement are New Hampshire Department of Environmental Services (hereinafter DES) and the New Hampshire Department of Safety, Division of Homeland Security and Emergency Management (hereinafter HSEM).

**III. AUTHORITY**

The Emergency Management Performance Grant (EMPG), awarded by HSEM, supports activities associated with all-hazards planning and preparedness capabilities and activities, to include mitigation, preparedness, response, and recovery initiatives. This EMPG Program supports the personnel and data management necessary to assist communities and state agencies relative to site-specific issues throughout the state.

**IV. SCOPE OF WORK**

Addressing the concerns caused by flooding upon the communities and citizens of New Hampshire remains a state priority. Support to state agencies and local communities to address these concerns requires scientific and subject matter expertise in both the water and geologic resources of New Hampshire. To continue to address these initiatives under this grant, existing flood hazards program staff will undertake several activities, while increasing public benefits through greater integration and support with the geologic, groundwater and earth science expertise of other staff possessing such expertise within the New Hampshire Geological Survey (NHGS) at DES.

First, the Flood Hazards Program will chair, in collaboration with other DES units and state agencies, the New Hampshire Stream Crossing Steering Team. Staff will maintain stream crossing data, critical to support communities in the funding of aging and undersized culvert replacements. Staff will collaboratively conduct annual training of stream crossing data collectors, and provide

quality control of all collected data. Culverts will be evaluated for hydraulic vulnerability, with data subsequently being made publicly available. Summer interns will be available to collect stream crossing data where and as needed.

Second, program staff will administer the statewide Flood Hazards Geodatabase, including inputting and updating data after flood events, so that the geodatabase may serve as a long-term record of statewide flood events to support mitigation planning and funding, in collaboration with NH HSEM personnel.

Third, program staff will enhance and continue refinement of the National Hydrography Dataset (NHD), a key input to flood and stream crossing hazards modeling efforts, through linking stream crossing data to the network as events, and refinement of existing stream network flow paths to maximize stream network and attendant modeling accuracy.

Fourth, the Flood Hazards Program will administer the multi-agency New Hampshire Silver Jackets team, and work among team members on projects that will assist communities and state agencies with addressing local and regional flood concerns.

Fifth, Flood Hazards Program staff will collaborate with other NHGS technical staff to prepare and enhance geoscience-based datasets that can directly fulfill requirements of future watershed- or river-reach based hydraulic and hydrologic modeling. These enhancements include, but are not limited to: hydroenhancement of new digital elevation models which take advantage of recently completed statewide LiDAR; water well inventory and GEOLOGs databases to support accurate depth to projected groundwater table; groundwater level monitoring network; depth to bedrock; surficial geologic mapping and data; and, investigating locations of stream channel cross-sections for linking to stream crossing and NHD datasets. Staff will support any integration and notification of availability of completed datasets with stakeholders statewide, and assist with exploration and execution of integration of these datasets with New Hampshire's hazards-based initiatives as necessary.

Sixth, Flood Hazards Program staff will generate post-event technical summaries relative to floods, ice jams and landslides after major events occur, in collaboration with state and federal agencies, using an approved protocol.

Seventh, program staff will assess river, flood and earth-surface processes, and the potential implications of those processes on infrastructure and property, to inform and support local communities, as requested.

Additionally, program staff will provide technical assistance to state agencies in conducting infrastructure and vulnerability assessments, and technical review and comment of draft flood-related reports and documents generated by state agency programs when requested.

## **V. Funding**

HSEM agrees to provide financial assistance from the FFY 2019 EMPG Program in the amount of \$272,804.00 to DES in support of the tasks listed above, in accordance with Section IV. The financial assistance to be provided by HSEM under this MOA requires that DES provide a 50% matching contribution of the total project amount. The match requirement of \$272,804.00 will be met by DES through the DES Dam Bureau personnel to include, the Chief Water Resources Engineer and the Assistant Chief Water Resources Engineer.

DES shall maintain financial records, supporting documents, and all other pertinent records for a period of three (3) years. In these records, DES shall maintain documentation of the 50% cost match required by this grant and agreed upon by DES.

Payments shall be made by HSEM to DES quarterly through submittal of invoices for services rendered. DES agrees to document \$272,804.00 in matching expenditures.

**VI. TERMINATION**

Either party may terminate this agreement by providing notice to the other thirty (30) days prior to termination.

**VII. DURATION**

Upon Governor and Council approval, this agreement shall continue in effect until September 30, 2021, unless terminated earlier by either party.

**VII. AGREEMENT**

In WITNESS THEREOF, the parties hereto have executed this agreement, which shall become effective on the date the Governor and Executive Council of the State of New Hampshire approve the agreement.

**NH Department of Environmental Services**

  
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Robert R. Scott  
Commissioner

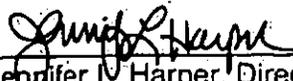
7/27/20  
\_\_\_\_\_  
Date

**NH Department of Safety**

  
\_\_\_\_\_  
Robert L. Quinn  
Commissioner

8/28/2020  
\_\_\_\_\_  
Date

**NH Department of Safety, HSEM**

  
\_\_\_\_\_  
Jennifer L. Harper, Director

8/18/2020  
\_\_\_\_\_  
Date

Approved by the Attorney General this 4<sup>th</sup> day of September, 2020, as to form, execution and substance.

OFFICE OF THE ATTORNEY GENERAL

A handwritten signature in black ink, appearing to be "J. A. K.", is written over a solid horizontal line. The signature is stylized and cursive.