

## West Virginia GIS Technical Center

## West Virginia University

Department of Geology and Geography 😮 Eberly College of Arts and Sciences

December 27, 2024

Kevin Sneed, CFM CTP Project Officer 1700 MacCorkle Avenue, SE, 6th Floor Charleston, WV 25314 (304) 957-2571 kevin.l.sneed@wv.gov

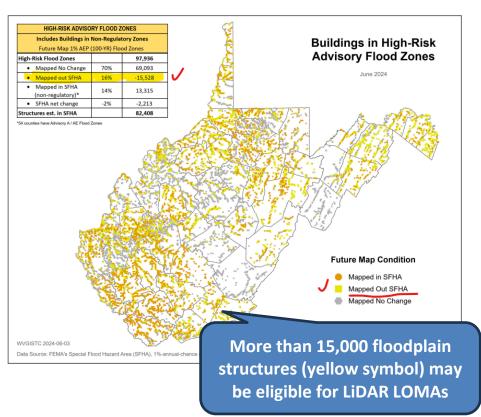
**SUBJECT**: Invoice for COMS Task B, Task D, and Task H; FY23 CTP Community Outreach and Mitigation Strategies (COMS) Grant.

Dear Kevin,

In accordance with the FY23 CTP Service Agreement dated October 2023, this invoice in the amount of \$20,000.00 for COMS Task B, Task D, and Task H in support of the WV Flood Tool (<a href="www.mapwv.gov/Flood">www.mapwv.gov/Flood</a>) and WV Risk Explorer (<a href="wvfrf.org/WVRE">wvfrf.org/WVRE</a>). See the scope of work as outlined in the amended 2023-24 (FY23) CTP Statement of Work Plan dated August 2023, and authorized under a WV-48 service agreement between the WVEMD and WV GIS Technical Center, West Virginia University. Refer to the FY23 COMS <a href="statement of Work">Statement of Work</a> documents for more details about the specific tasks.

Invoice #	Services Rendered	Amount
12272024	TASK B: [Deliver Technical Support Services for LiDAR LOMAs].	\$6,000
Time Period 10/1/2023 to 12/27/2024	LiDAR LOMAs were submitted for qualifying structures using FEMA's Online LOMA portal. The WVU GIS Technical Center supported the state floodplain management community with the submission of LiDAR LOMAs when a field elevation survey was not required. This activity included assisting floodplain managers with the online LIDAR LOMA submissions to FEMA for approval.	
Task B	This activity communicated to these constituents how the "mapped out" structures on the RiskMAP View of the WV Flood Tool, symbolized as yellow squares, may qualify for removal from the SFHA. The only information required for an Online LOMA submission to FEMA are a map layout from the Flood Tool and a copy of the deed. The WV Flood Tool's Print Function generates map layouts for the LiDAR submissions using either the contour or point elevation methods.	
	<ul> <li>LiDAR LOMA resources on the WV Flood Tool. Resources:</li> <li><u>Instructions</u>   <u>Overview Slides and Guide</u></li> </ul>	
	<ul> <li>Over 15,000 structures or 16% of buildings in the high-risk flood zones may be eligible for LiDAR LOMAs. View potential floodplain buildings "mapped out" of SFHA <u>Graphic</u>.</li> <li>Example LiDAR LOMA <u>Map Layout</u> for Mineral County generated from WV Flood</li> </ul>	
	Tool Print Function.	





\$9,000

## Task D

## TASK D: [Develop, Verify, and Publish Flood Risk Profiles at State, Regional, Community, and Watershed/Stream Levels]

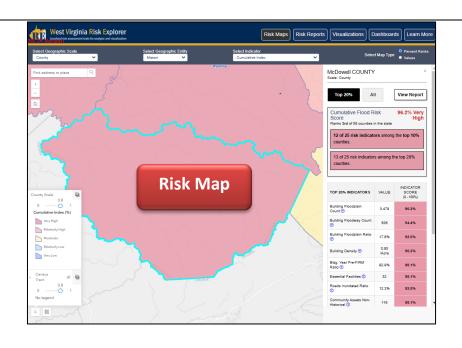
For exploring risk, developed online interactive riverine **Risk Maps** and **Risk Reports** for eight aggregate or geographic scale levels:

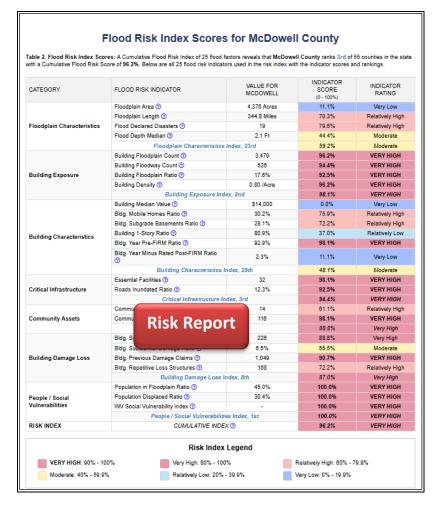
RISK MAPS	RISK REPORTS
• <u>Statewide</u>	• <u>Statewide</u>
• <u>11 Regional Councils</u>	• <u>11 Regional Councils</u>
• <u>55 Counties</u>	• <u>55 Counties</u>
• <u>284 Communities</u>	• <u>284 Communities</u>
• <u>55 Unincorporated Areas</u>	• <u>55 Unincorporated Areas</u>
• 229 Incorporated Places	• <u>229 Incorporated Places</u>
33 Watersheds	33 Watersheds
<ul> <li>156 Named Streams (Top 2%)</li> </ul>	<ul> <li>156 Named Streams (Top 2%)</li> </ul>
130 Named Streams (10p 2%)	130 Named Streams (10p 2%)

Depending on the scales of analysis, users can explore property flood risk data for the following purposes:

- Validating floodplain management practices at the incorporated/unincorporated or community scales
- Exploring risk assessments and mitigation actions at the **community** level
- Hazard mitigation planning at the county or regional scales
- Resiliency planning at the **statewide** scale
- Collecting information for FEMA's Risk MAP discovery at the watershed scale
- Researching loss of property and life at the river/stream scale

Because certain risk indicators of the **Communities** scale follow a bimodal distribution, the 284 Communities are subdivided into 55 Unincorporated Areas and 229 Incorporated Places for more detailed analysis of scales. Of the 284 unincorporated/incorporated communities in West Virginia, 266 or 94% of these communities have mapped Special Flood Hazard Areas (SFHA) or high-risk floodplains.





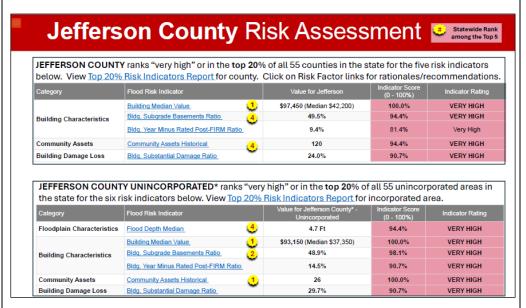
\$5,000

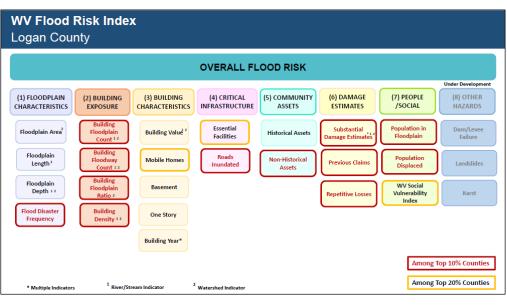
Task H

TASK H: [Perform Detailed Riverine Flood Impact and Mitigation Studies of Vulnerably Disadvantaged Communities using recently published FEMA and First Street Foundation Flood Models]

Performed detailed flood risk assessment studies for the following communities.

- Greenbrier County
- Jefferson County
- Logan County
- McDowell County





Grand Total Total invoice amount: \$20,000

Please use the following information for paying electronically:

Payment Transfer Information:

OASIS: 4187 111 1463 1463 6909 H514

WVU Acct: 11. 110530213. 11303179. 4108501. 999. 99999999

If you have any questions, or need clarifications, please do not hesitate to call.

Sincerely,

Kurt Donaldson Project Manager

WV GIS Technical Center, WVU e-mail: kdonalds@wvu.edu

Kurt Donaldon

CC: WVU Revenue Services - RevenueServices@mail.wvu.edu