

Minnesota Geospatial Advisory Council  
Workgroup Work Plan

**Hydrogeomorphology Workgroup**

**Work Plan date:**

November 13, 2020

**Co-chairs:**

Andrea Bergman, Jamie Schulz, and Rick Moore

**Steering Committee Liaison:**

Sean Vaughn

**Link to workgroup charter:**

[http://www.mngeo.state.mn.us/committee/3dgeo/3dgeo\\_committee\\_charter.pdf](http://www.mngeo.state.mn.us/committee/3dgeo/3dgeo_committee_charter.pdf)

**Work Plan for 2021**

**Planned activities and deliverables:**

1. Education and Outreach
  - a. Maintain SharePoint Calendar with current and upcoming events members should be aware of
  - b. Design one-page handout that describes the Workgroup and highlights the successes and future efforts of this collaborative group
  - c. Update the existing 2-page fact sheet on the Workgroup
  - d. Look for opportunities to connect with hydrography related committees and workgroups within the Agencies
  - e. Develop needs statement to guide LiDAR derived hydrography products
  - f. Review Minnesota State Lidar Plan, provide comments back to the Steering Team
    - i. What is lacking in the plan?
    - ii. What would you like to see included in the plan?
    - iii. What derived products do you want to see created to support your work within your workgroup
2. Coordination across 3D Geomatics Workgroups
  - a. Connect with other workgroups to coordinate collaborative efforts
  - b. Attend 3D Geomatics Steering Team Meetings to present workgroup updates
  - c. Create a list of Agency programs that fund projects related to LiDAR, share with 3D Geomatics Steering Team
3. DEM Hydro-modification Subgroup (formerly Breachline Database Subgroup)
  - a. Establish a Digital Dam Breachline (burn line) QA/QC Protocol
  - b. Maintain centralized authoritative map of current breachline datasets
  - c. Promote the Need for a Digital Dam Breachline (burn line) QA/QC Project

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- d. Explore the role of the DNR Culvert Inventory App or a modified version Breachline Inventory App in digital dam breachline mapping and dissemination
  - e. Collaborate with the GAC and provide an advisory role on GAC Priorities.
4. Data Catalog Subgroup
    - a. Identify data needs not covered by existing data
    - b. Identify requirements of LiDAR collects to meet these needs
    - c. New webpage for the subgroup
  5. Foundational Hydrography Data Stewards Subgroup
    - a. Add text to Hydrogeo webpage to identify the foundational hydro data layers
    - b. Quarterly meetings
  6. Culvert Data Standard Subgroup
    - a. Create subgroup and begin membership recruitment
    - b. Develop web page for Culvert Data Standard efforts
    - c. Develop Mission Statement and Work Plan
    - d. Establish meeting schedule
    - e. Collaborate with the GAC and provide an advisory role on GAC Priorities.
  7. Broaden scope/mission to include relationship to soils
    - a. Establish a subgroup to incorporate concepts of how landforms and water create soil types
  8. Maintain ongoing support duties
    - a. Work with MNGEO (Nancy Rader) to maintain workgroup web page
    - b. Maintain web pages for each subgroup (Hydromod, data catalog)
    - c. Identifying and Recruiting Membership
    - d. Maintain SharePoint site – current and relevant content
      - i. Focus on using SharePoint for collaboration, such as documents for DEM Hydro-modification subgroup
      - ii. Identify SharePoint steward for the Workgroup pages

### **Roles and Responsibilities:**

Membership will include diverse users and stewards of hydrography and soils data. Provide guidance to data stewards and users on initiatives that relate to LiDAR derived end products.

### **Resources:**

The Hydrogeomorphology Workgroup will use the work and accomplishments of the former [Hydrography Committee](#) and collaborate with other current 3D Geomatics Committee Workgroups.

### **Workgroup needs:**

The Hydrogeomorphology Workgroup will depend on guidance from the 3D Geomatics Steering Committee.

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### **Dependencies and interrelationships:**

The workgroup will work with the 3D Geomatics Steering committee to coordinate LiDAR acquisition standards.

### **Risks:**

- Taking on too much responsibility and underestimating the amount of commitment to the workgroup.
- Inaccuracies in historical data will be incorporated into future derived hydrography data.
- Lack of standards for data development and data application of hydrography data. Bad data will translate into lost time and money.
- Lack of communication between government agencies at all levels and private sector partners pertaining to hydrography data.

### **Additional Comments:**

**Date approved by the 3D Geomatics Steering Committee:**