Drainage Work Group Meeting

**When:** Thursday, November 18, 2021 1:00 p.m. - 3:00 p.m.

**Where:** Microsoft Teams meeting

[Click here to join the meeting](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDI5ZWRlNzQtYTZhOS00YWJiLTgwYjgtOWRlNWI2MDk5OTg2%40thread.v2/0?context=%7b%22Tid%22%3a%22eb14b046-24c4-4519-8f26-b89c2159828c%22%2c%22Oid%22%3a%228c076cd9-0542-48ca-8780-b4e416e3b2f9%22%7d)

**Introductions and agenda Overview:** Tom G. Provided overview of agenda.

**Share information about recent and upcoming drainage related events** – All

* There was a Joint meeting of the MVA and the MN Ditch Inspectors on November 4th from 10:00 to 1:00 at Jackpot Junction near Morton MN.
* MAWD Pre-Drainage Workshop Dec 1 & Annual Convention Dec 2-4.
* Drainage Research Forum, Ames Ia– Nov. 23 https://www.regcytes.extension.iastate.edu/drainageresearch/
* ISG – Drainage Forum – Spring 2022

**Cumulative Effect**

* When we last discussed adequate outlets multiple speakers talked about the term “cumulative effect” in consideration to the drainage systems and the respective proceedings. In order to continue some of that discussion a few folks will share their perspective of what “cumulative effect” means with an effort to build some common understanding.
  + “Cumulative effect” is not in the Drainage Code.
  + “Cumulative Effect” Fed. Rule 4410.0200 subp. 11a – Elise Larson
  + Median flow changes and TSS loads from Cumulative Effect on the Minnesota River. -Len Kremer & Philip Solseng
  + FEMA approach to Cumulative Effect -Rita Weaver
  + Question of outlet adequacy definition – Tom Gile
* **Road Crossings. Is it possible to create a key that indicates who pays under what circumstances?** 
  + Brief overview of Road Crossing discussion from last meeting. Share and example decision key and talk about the types of decisions needed on this topic to determine outcomes. – Tom G.
  + Additions to Tom’s list:
    - Private vs Public; damages paid at time of establishment – Kale V.
    - Funding availability – Neil P.
  + Will share flowchart prior to next meeting for discussion.
* **Minnesota Public Drainage Manual Updates so far.** 
  + Review the list of changes in the Manual text that have been made to this point.
    - Definitions of Waters of the U.S.
    - RG-003
    - 404 Permitting – wording change suggestions from Ken
    - Water quality - updated link
    - Chap. 3 NRCS - updated link
    - Outlet Hydraulic Analysis – improved connection
    - Repair Cost Apportionment – Incorporating into Manual. Buffer Law wording
    - USDA FOTG – updated link to new handbook
    - RRB TSAC Tech Paper 15 - updated Link
    - BMP table – updated links.
  + Review any changes that haven’t been made yet and get any feedback warranted.

**Next DWG meeting, 1:00 a.m. - 4:00 p.m., Thursday, December 9, 2021, Virtual**

**Adjourn – 2:58p**