

NORTHWEST WATER PLANNING ALLIANCE

Executive Committee Meeting

September 13, 2018, 10 a.m.

The Centre, 100 Symphony Way, Elgin IL

Present: Elgin Mayor David Kaptain, Chairman: Deborah Allan of Kane County; Oswego President Gail Johnson of Metro West COG; North Aurora President Dale Berman of Metro West COG, Secretary; Barrington Mayor Karen Darch of Northwest Municipal Conference; Misty Haji-Sheikh of DeKalb County, Vice-Chair; Peter Wallers, TAC Chairman. Scott Koeppel, Kendall County.

Also President: Janet Agnoletti, BACOG Executive Director, Chalen Daigle, McHenry County COG; Mark Fowler, Northwest Municipal Conference Executive Director; Dan Abrams, Illinois State Water Survey; Colin Duesing, Will County Land Use; and Mary Randle, Metro West COG Executive Director.

Chalen Daigle noted that Craig Adams should be added as the representative for McHenry County Council of Governments.

Mayor Kaptain welcomed everyone to the meeting and introductions were made.

Approval of Minutes: Minutes of the May 10, 2018 executive committee meeting were approved as presented after a motion by Misty Haji-Sheikh and a second by Dale Berman.

Financial Reports: Deborah Allan presented the financial reports of May, June, July and August 2018. After review, they were approved with a motion by Dale Berman and a second by Karen Darch. The account balance on August 31, 2018 was \$43,614.

Strategic Plan Review: Gail Johnson:

Our mission statement: The NWPA, formed by intergovernmental agreement, seeks to collaboratively plan for and steward our shared river and groundwater resources to ensure a sustainable water supply for the people, economy, environment and future generations.

Vision Statement: The NWPA area will have dependable supplies of water for generations to come.

Three goals of equal standing were established and are as follows:

1. Build the organization's capacity to achieve mission.
2. Provide education and outreach to raise awareness of the value of water as a finite asset.
3. Develop sustained water-use policies and practices that are widely adopted and protective of water supplies.

Misty Haji-Sheikh suggested that a fourth goal be added: Share our knowledge with other organizations.

For the goal assigned to your workgroup, please answer the following questions:

- 1. Is the goal worded correctly? Is it clear?**
- 2. Which of these objectives AND/OR first steps have been completed?**
- 3. Is there anything that should be removed? (Problem no longer exists, priorities have shifted, etc.)**
- 4. Is there anything that should be added to help to achieve the goal?**

Gail Johnson noted that there was no change in our mission and vision statements. She reviewed our goals. Karen Darch mentioned that we are included in CMAP. They need to understand how their policies affect our area. Dave Kaptain mentioned that we have been talking about whether there is a way to capture large amounts of rainwater from storms—how to use water as a resource for future drinking water. Pete Wallers and Gail Johnson will wordsmith the document and send it out, perhaps in October. Please email your input to Mayor Kaptain, Pete Wallers and/or Gail Johnson.

With these practices, we can try to get money from the IEPA. The funding would go to CMAP but we would get some of that. There may also be some there for BACOG's request. We won't get everything that we ask for, but we should be able to accomplish some good things with the resources that we get. Janet Agnoletti stated that we need to advocate for all of this at the state level.

Technical Advisory Committee Report: Peter Wallers reported that we have a good number of interested partners interested in distributing our Sensible Salting information. We want to help privately owned parking lots know how to deal with snow and ice related chlorides. We will develop written materials – a manual. It probably won't be ready by this snow season but should be ready by the following snow season. We can promote local ordinances with these practices. The Sugar Grove Water Authority may also help with funding. Mayor Kaptain wants to expand our water supply presentations to other libraries.

Presentation: Dan Abrams: Illinois State Water Survey: Understanding the Regional Groundwater Model:

We have conducted hundreds of local and regional-scale analyses to investigate groundwater issues. The problem is that technology leaps ahead of archived models. The models need information as up to date as possible. Maintenance of these models is time consuming. Some models overlap, creating duplication of effort. This is exacerbated by issue with Joliet's overuse of aquifer. So we need a single Illinois groundwater flow model. It also has to work in surrounding states.

Monitoring allows us to assess model performance – under and over predicting.

Water supply planning – capture zone analysis – impacts of irrigation – river water infiltration. Aquifer test analysis

New Illinois model – uniform grid model 300 m. – trying to capture sandstone aquifer

Sandstone aquifer Risk map – Kane, Kendall, Will counties sandstone aquifers 60% NE IL withdrawals are unsustainable. 75% of Will County withdrawals are unsustainable. Shallow bedrock levels will be a problem next. Chloride mitigation – Kane County showed the surficial maps and shallow bedrock.

Using python language. Water use data. [The presentation is available on nwpa.us](#)

Withdrawals are often missing data. Model is messy but 100% capable of automation. FLOPY is a package that allows python to be used. Imports withdrawals into the groundwater flow model via FLOPY.ISWS data servers are stored in database. Monitoring allowing us to assess model performance use. Risk map and interactive maps are available at the ISWS website. ENIGMMA is undergoing revisions and currently in development for model ready pumpage generator. Water use generator.

McHenry County and Kane County have been finished. Now integrating DeKalb County model.

Sandstone is at bedrock surface in DeKalb County. Southwest Kendall County barriers to recharge. DeKalb County is cross section. Greer (2016) created a new glacial geology that was overlain on ISWS bedrock geology and will be incorporated into the Illinois Groundwater Flow Model. Sandstone pumping near the Troy Valley originally from the shallow aquifer. Flow into bedrock down and out of bedrock. This is important in DeKalb County.

Illinois Ground Water Flow Model improved its capability to investigate the number of regular and local scale water supply and water quality issues.

ENIGMMA: allows for streamlining of many of these processes and will continue to be developed in coming years.

DeKalb County is a critical source of water for northeastern Illinois, particularly related to the sandstone.

CMAP was charged with updating water use projections. The use was lower than anticipated.

The meeting was adjourned at Noon.

Submitted by _____

Dale Berman (Secretary)