TECHNICAL COMMITTEE MEETING AGENDA

February 3, 2021 10:30 – 11:30 a.m.
Virtual Meeting: Zoom https://tnc.zoom.us/j/98480143953
Call in: 1-253-215-8782 Meeting ID: 984 8014 3953

(Alternate if problems with Video Conferencing: Phone: 605-475-3215, Code 1085829#)

Science/Technical Advisor Members*: Audubon Arizona- , Sierra Vista- Sharon Flissar, Cochise County- Mark Apel, Fort Huachuca- Ryan Fitzgerald, The Nature Conservancy- Brooke Bushman, Holly Richter, BLM- Dave Murray, USGS- Libby Wildermuth, Bruce Gungle, ARS- Russ Scott
NOTE: *This meeting requires that one Science or Technical Advisor from at least 5 of the members listed to participate in the discussion and decision*

- *Present and accounted for, noting that USGS abstains from USPP decision making.*

Regular Member attendees: Friends of the San Pedro River- Robert Weissler, BOR- Eve Harper
Non-member attendees: Laurel Lacher (Lacher Hydrological Consulting), Olga Hart (ADWR)
Scribe: Yvette Matthias

10:30 – 10:40 Introductions

10:40 – 10:50 USPP Administration

1. Review December 2021 notes

Action Item: December meeting notes approved.

2. Tech Comm Membership and Appointment Reminder:
   i. Primary & Alternate representative appointment: by Quarter 1 (Calendar year) 2021, include Regular or Advisor status (include 150-word biography)

Action Item: Brooke Bushman asked everyone to email Yvette Matthias and her updates their primary and alternate representatives and also their regular or advisor updates with the 150 word biography.

3. WHIP update (Bushman/TNC)- data/monitoring request

Action Item: Let Holly Richter know if you have any thoughts about The Nature Conservancy's outreach to secure future monitoring funding, especially for that monitoring that collects data to be delivered via the WHIP.

10:50 – 11:20 Upper San Pedro Groundwater MIKESHE Funding (Richter/TNC)

Holly Richter gave a short presentation, reviewing key graphics from the May 2020 Lacher Hydrological Consulting MIKESHE presentation, and the following request from the Tech Comm:

Does the Technical Committee support a recommendation to the Administrative Committee for providing funding to The Nature Conservancy to complete tasks leading to development of Regional and SPRNCA-specific MIKESHE models for the Upper San Pedro Basin?

The following questions/responses were fielded by Holly and Laurel Lacher:

- MIKESHE can run explicit scenarios from the IPCC (International Panel on Climate Change)
- Will it include the Sonoran portion of the USP? This is a decision point yet to be made; if not needed the model will run faster, and the Palominas stream gage can serve as the boundary condition, yet Sonora would be included in the model but not active. If yes, the Palominas stream gage can serve as a calibration point (along with any other precip or wet dry data?) from Sonora
- Regional model scale will be 1km which is an adequate scale to provide boundary conditions or the SPRNCA (Riparian) model, which will be 100 – 200 m scale to start. We'll make it as fine scale as possible to capture the dynamic processes.
- The river can span model cells, which is an improvement over the MODFLOW model
- How will MIKESHE integrate with previous USGS MODFLOW and other surface water modeling? It is a complimentary process/paired modeling approach:
  Phase 1:
  1. Start with MODFLOW existing, initial conditions
  2. Expand MIKESHE- surface inputs, climate data

  Phase 2:
  3. Integrated Model Calibration: may include calibration with surface water models also
  4. Converge models
- This is a very important step and very useful, and a nice price tag. Just a cautionary note about the complexity of the calibration process, to constrain to the actual data.
- Will the model only be able to run by someone with a proprietary license? Once the model is created, it will be able to be run by others

Yes - Sierra Vista, Cochise County, Fort Huachuca, The Nature Conservancy, BLM, ARS
Dissent - none

Action Item: The USPP Technical Committee science and technical advisers support a recommendation to the USPP Administrative Committee for providing $30,000 to The Nature Conservancy to complete tasks leading to development of Regional and SPRNCA-specific MIKESHE models for the Upper San Pedro Basin.

11:20 – 11:30 Call to the Public or Member Updates (including other related partnerships)

Action Item: Ryan Fitzgerald asked to move his upcoming agenda items to June. (Brooke Bushman)

Next Meeting: March 17, 2021

TYPICAL SCHEDULE: 3RD WEDS. MONTHLY, 1:30 – 4:00 p.m.