

San Pedro Riparian NCA Riparian Working Group Meeting Agendas and Notes (2021-2025)

February 25, 2025 (11am-12pm)

Participants:

Julie McIntyre (USFWS), Emily Burns (Sky Island Alliance), Jennie MacFarland (Tucson Bird Alliance), Colton Dodson (BLM), Sharon Flissar (City of Sierra Vista), Christina Perez (BLM), Colleen Dingman (BLM), Hannah Pierce (BLM), Holly Richter (Resilient Rivers), Katie Matthiesen (AZGFD), Mark McCabe (BLM), Pete Christensen (BLM), Robert Weissler (Friends of San Pedro), Tricia Gerrodette (San Pedro 100), Julie Stromberg (USFWS)

Agenda

- USGS monitoring - Pete Christensen, BLM

Relevant resources:

- *Federal Water Right Reserves* – (spreadsheet upon request) shows each federal water right site and a link to the USGS database where all the collected data is made publicly available.

- Wet-dry monitoring - Pete

Relevant resources:

- *Wet Dry Mapping* [official site](#).
- *This wet dry mapping tool helps visualize.* [San Pedro River Wet/Dry Map Animation](#)
- [Upper San Pedro Partner's WHIP](#) -The website is working towards being a one stop shop for SPRNCA data.
- Wildlife: waterfowl surveys and Motus station efforts - *Hannah Pierce, BLM*
- Standing updates:
 - Adaptive Management Committee of the SPRNCA MOU - *Holly Richter*
 - Upper San Pedro Partnership
- Partner updates

Actions

- Motus tower follow-up call: Hannah, Robert, Jennie (SDR schedule)

~Notes~

USGS Monitoring - *Pete*
USGS well monitoring

- BLM was awarded federal water rights about two years ago. There is an agreement with USGS to help carry out monitoring.
- Well levels are being collected with pressure transducer. There is one in each well taking a data point every 30 minutes by USGS.
- Data is being posted on the USGS website.
- Pete shared a demo of the USGS website, exploring [Palominas data](#)

Wet-dry monitoring *Pete*

- Pete shared the official site for wet-dry data, as well as the TNC online map
- USPP WHIP map - hope is that this will become a one-stop shop. Wet-dry data is also here.
 - Riparian Health Assessment data can also be found here

Discussion/questions

- The rise is likely due to monsoon rains
- The WHIP map was designed by Blue Raster. Holly works with them to maintain this; data is constantly being updated.
- SIA will be doing spring surveys in this area this year. Can this be incorporated in the WHIP map. Emily reach out to Holly to coordinate.

Wildlife monitoring

Waterfowl surveys

- currently two active rookeries along the SPRNCA and BLM lands. Used to be four, but two are now gone.
- Hannah monitored them last year, and will do again this year beginning in March.
- They are hit pretty bad by Great horned owl. Unsure if both rookeries were able to fledge.
- Please share with Hannah if you ever come across a rookery.
- Motus - towers that can track collared birds. BLM is trying hard to get stations on SPRNCA and LCNCA. Challenge is funding. Hannah put it in this year.

Motus discussion

- This project was previously in the works, but it didn't end up happen.
- What are Funding options? Friends of San Pedro can bring this up at their next meeting.
- TBA noted that Bird Conservancy of the Rockies will be in AZ to put up towers with AZGFD. They may be able to do this for less.
- Cost can be controlled a lot if there is an existing structure. Northern AZ Audubon has recently done two - one with and without structures. They would be good resource to learn more about costs.
- Whoever is leading this should get in touch with Edwin Juarez (AZ Motus group)
- Timing is good to try and get this done. Lots going on with Motus

- Need to ID where station will be located: Note that the trees will really interfere with signals. Uplands may be better (an old windmill??). San Pedro House might not work.
- There is a lot of back order for antennas right now. Make sure to get the array that will get signals for bats. Talk to AZGFD (Angie) they may be able to help fund with their bat work.
- There is a tower at Charleston (talk to Russ Scott)
- Action: Follow-up call with Hannah, Robert, Jennie

Adaptive Management Committee of the SPRNCA MOU - *Holly Richter*

- 4 agencies, 2 federal partners, 2 local partner created MOU in 2021 to fund and support the science for decision-making
- These efforts are aligned with Cochise Recharge Network that implements projects.
- Riparian Health Assessments are being done by Mark Dixon (University of South Dakota) - he was a student of Julie Stromberg.
- Stromberg developed an approach for determining Riparian Health. This is the framework being used now. It includes nine different vegetation measurements; based on water availability.
- Condition Classes: 1 (dry-losing), 2 (intermediate-losing), 2 (wet-gaining)
- 2023-2024 assessments saw similarities to last assessment in early 2000's.
- The MOU states that riparian health will be assessed initially for first two years, and thereafter every ten years, or as needed.
- 2023 and 2024 assessments were averaged.
- Somewhat perplexed on improvement for reach 13. North end has some improvements.
- Wet-dry mapping is also used for each reach. Lots of variability between reaches.
- Data on north end is scarce.

How the AMC makes decisions that feed into annual plan:

		<i>Wet Dry Mapping Trends (Wetted Length)</i>		
		<i>Significant Improvement</i>	<i>No Change</i>	<i>Significant Decline</i>
<i>CURRENT CLASS</i>	3	MOU Objectives satisfied <small>Table 2. Interim Decision Matrix for 2024</small>	MOU Objectives satisfied	Additional monitoring and management will be considered
	2	MOU Objectives satisfied	Objectives may be satisfied, potential additional monitoring and management may be considered	Additional monitoring and action required
	1	MOU Objectives satisfied	Objectives may be satisfied, potential additional monitoring and management should be considered	Additional monitoring and action required

- CCRN projects:
 - Bisbee Effluent Recharge Project - seeing decline in wetted length. This remains a priority for AMC.
 - Riverstone Effluent Project and Bisbee Effluent are both located near reaches that need help.
 - YBC habitat extends into Riverstone Project. Goal is to restore riparian corridor

Discussion/questions

- Concern that the AMC might make use of a better condition class when there were measurements of both good and intermediate, and then not looking again for 10 years. If you looked instead at the lesser, intermediate class, there may be more concern about watching it.
 - The merged data is done statistically, not picking one or the other.
 - MOU does say resampling should happen if anything new happens or changes. So there is not a steadfast commitment to not do this for ten years.
 - The 2023 results for reach 5 were important, but were not a result of water availability.
- I will put in my usual standard strong objection to using wet/dry mapping as the only basis for action by the AMC. I understand it's the only annual effort and also the least expensive. But it is a snapshot in time, with no accounting for the impacts of recent storms, which we KNOW have had occasional impacts on wet/dry measurements.

Partner updates

- Community Watershed Alliance are working on a new website for the Community Watershed Alliance and it should be accessible in a couple of weeks. We have a linked technical library and we will be incorporating more data as it is categorized.
- Western Watersheds legal action on federal firings:
<https://westernwatersheds.org/2025/02/western-watersheds-project-joins-legal-challenge-against-federal-mass-firings/>

November 20, 2023 (12-1pm)

Participants:

Tricia Gerodette, Laura Paulson, Jennie Macfarland, Julie McIntyre, Jennifer Martin, Sharon Flissar, Diane Laush, Libby Wildermuth, Meaghan Conway, Christina Perez, Theresa Condo, Mark McCabe, Colleen Whitaker

Actions:

- Monitoring survey:
 - SDR - put questions into survey form and share back out with group for final edits
 - BLM - pull together list of those they are already aware of who are engaged in SPRNCA monitoring
- Get update on USGS well-monitoring at upcoming meeting (ask Libby and Peter)
- All Partner Meeting (March 19) - share any ideas for field visits or topics

Agenda items:

- Standing updates
 - BLM - Joan Breiner
 - Upper San Pedro Partnership - *Sharon Flissar, Sierra Vista*
 - Adaptive Management Committee of the SPRNCA MOU - (Holly Richter via Sharon Flissar)
- Partner SPRNCA monitoring - developing an inventory
 - Discuss and develop questions to include in a brief survey (see below)
- All Partner Meeting at SPRNCA (March 19)
 - Riparian-related site visit suggestions?

Partner riparian monitoring on SPRNCA - Survey questions [DRAFT FOR DISCUSSION]

1. Your name
2. Organization/agency
3. Email
4. **Monitoring** you are engaged in on the SPRNCA (include the following questions for each dataset):
 - a. Data description (what monitoring are you doing?) [*plant or animal*]?
 - b. Contact name for data
 - c. Location

- d. Timing of monitoring (e.g. season, start/stop date)
 - e. Frequency of data collection
 - f. Are you following a specific monitoring protocol? If yes, what. (OR Please describe your monitoring methodology or specific/formal protocol)
 - g. Weblinks (to data, any reports, or protocol)
 - h. Is the data sharable?
5. Are you aware of **other existing data** (not your own) relevant to SPRNCA riparian and aquatic resources that BLM and SPRNCA partners should know about?
 6. What do you feel are the **most critical monitoring priorities** for the SPRNCA watershed (please indicate if you believe the priority to be a gap, i.e. that it is not currently being monitored to your knowledge)

Start list from BLM of known monitoring (e.g. YBC, cuckoo)

BLM website SPRNCA page - could advertise this there. Or direction for potential researchers.

~Notes~

BLM updates - *Joan*

- BLM working with USGS on monitoring
 - Request for more info on this. Which wells? BLM hydrologist working on this.
 - Libby is working on this now from USGS side. Working with Pete: federal water right wells. Libby
- Federation of American Public Lands (BLM charitable arm) is starting to get up and working. They mentioned San Pedro and there was interest in this. Could lead to additional funding available. BLM was asked what we could do with \$150k

Upper San Pedro Partnership - *Sharon*

- Just met last week. Topic - spring fires along San Pedro. Had tour of web-based hydrologic information portal ([link](#)). This is an available resources (consolidation of data gathered over many years - well levels, wet-dry mapping, recharge projects)
- No Dec meeting due to holidays
- January chairs will transition. Sharon will step down and Audubon will step into this role (Tice included).
- Working on work plan

Water MOU group - *Sharon*

- Riparian health study this summer by University of South Dakota. Field work completed over summer. Data analysis now. Full report expected by end of year. Results will be shared through USPP Tech committee next year.
 - Purpose: classify all 14 reaches into pf, at risk, non-functional. Use this info to make decision about AM plan.
- AM committee - annual strategic planning meeting this summer

- City of Sierra Vista (as fiscal agent for MOU group) ATB grant received. Will go towards holly's work as coordinator for SPRNCA MOU. And work towards establishment of long-term endowment for SPRNCA to support on-going monitoring. And site investigation and conceptual design for Bisbee
 - City of Sierra Vista has great grants person who gets tapped to monitor the grants
 - Sentinel Landscapes may have submitted another grant that gets at bigger picture of monitoring - try to find out more.

Discussion/questions

- Is there any reasoning that the riparian health study couldn't be made public before January meeting? → check with Holly

July 14, 2023 (1-2pm)

Participants:

BLM: Colleen Dingman, Amy McGowan, Joan Breier, Mark McCabe, Keith Hughes, Theresa Condo, Christina Perez

Partners:

Sharon Flissar, Diane Laush, Emily Burns, Holly Richter, Jennie Macfarland, Julie Crawford, Laura Paulson, Libby Wildermuth, Meaghan Conway, Becky Fitzpatrick, Robert Weissler, Tice Supplee, Tricia Gerodette

Facilitation and documentation: Colleen Whitaker

Actions:

- Schedule next meeting (SDR)
- Include standing agenda item for future meetings (Water MOU group and Upper San Pedro Partnership)
- Monitoring plan work:
 - Holly can share data/information related to MOU obligations for hydrologic monitoring (Keith)
 - Avian - get subgroup together to work on avian list (Colleen)
- Additional outreach for group: Julie C suggests included Erin Fernandez (SDR) - Done

Agenda

1. Working Group overview (see BLM website)
2. Coordination with MOU group and Upper San Pedro Partnership (USPP) on water/hydrology issues (15 min)
 - a. Overview from BLM - *Colleen Dingman*
 - b. MOU group update/overview - Holly Richter, SPRNCA MOU Coordinator

- c. USPP update/overview
- 3. Development of a comprehensive riparian monitoring program for SPRNCA
 - a. Introduction of concept by BLM - *Keith Hughes*
 - b. Discussion - existing data/monitoring, what are partners doing already, where are the gaps, priority species, etc.
 - c. Initial next steps, and role of the working group
- 4. Wrap up

~Notes~

Coordination with MOU group and USPP

Colleen Dingman shared BLM perspective:

- Want to build on and learn from both partners' expertise as well as BLM.
- Moving forward we want to ensure that the work of these groups are integrated in the working group. This group can focus on riparian flora and fauna and not duplicate efforts, but rather integrate and coordinate with them as relevant.

Water MOU group - Sharon Flissar and Holly Richter shared an overview:

- Signatories to the MOU - City of Sierra Vista, BLM, Cochise County, Ft. Huachuca
- Focus - supporting the BLM SPRNCA RMP objectives. Working to make adaptive management happen with a prescribed process for how science is used in decision making (Holly offered to provide an overview of the decision-making and integration of science in a future meeting)
- The MOU includes a framework for assessing riparian health that Holly can share more info in with this group if desired.
- Holly has been hired as the coordinator of the group
- Currently the group is doing an update to the Stromberg Report. Vegetation study along the river in all 14 segments. Comparing this to the work done by Julie Stromberg 20 years ago. Assessing riparian health of the river based on these 14 reaches.
- MOU identifies the management in the MOU will start this year. The work being done this year will be the baseline for comparing future predictions of riparian health.
 - A partner shared that this is fairly frustrating given the decades of work that have been done. This is a challenge for this group - figure out how to start from a current baseline, vs what we know from the historic Stromberg work. (Note that there are species datasets that go back decades that will be part of this).

Upper San Pedro Partnership - Sharon Flissar shared an overview:

- Sharon is chair of the Technical Committee. Tice and Tricia in this meeting also participate.
- Recent changes: Technical Committee will now have rotating chairs. Sharon will be chair through 2023. Audubon will be next.

- These are open public meetings and anyone can join (ask Holly or Sharon for further info). They will continue to have a virtual option even when they begin to meet in person again.
- The USPP data and monitoring is the science upon which the MOU is based.

Development of a riparian monitoring program for SPRNCA - *Keith Hughes, BLM*

Keith shared a draft monitoring program outline (available upon request) for discussion and feedback with the group. Key points:

- This would not start from scratch. It will attempt to bring the state of the knowledge on all riparian flora and fauna monitoring on the SPRNCA
- Will provide guidance both internally (BLM) and externally (partners).
- Will outline monitoring requirements and obligations, current monitoring and present a gap analysis of what may be missing.
- Species monitoring and habitat monitoring are two main types of current monitoring efforts being undertaken by BLM and others.

Discussion and feedback:

- SPRNCA MOU includes significant obligations for hydrologic monitoring. The MOU document could be listed as an obligation in the documents.
- How to include hydrologic data and monitoring in this plan:
 - Want to ensure that there is not duplication of hydrologic monitoring efforts as part of MOU group and USPP, but that relevant information is linked/included as relevant.
 - The hydrologic monitoring that USPP undertakes is directly linked to maintaining flora and fauna. Holly has large dataset of info required for monitoring in the MOU and can share.
 - The river is broken into different segments, which are each quite different. Focusing on flora and fauna only without paying attention to underlying hydrology is potentially concerning.
 - Group felt included USPP data as an appendix may work.
- List the resources that will be monitored in the plan
- Avian - as part of the RMP there was an effort to identify birds associated with the riparian corridor. A deeper conversation would be useful to develop an avian species list. Audubon Southwest has a longstanding contractual relationship with BLM on the Agua Fria National Monument - staff and volunteers have been surveying Yellow-billed cuckoo here for 15 years. This may be an avenue to get sustained YBC monitoring on SPRNCA. Funding through this is being passed to BLM to get a MODIS station at SPRNCA.
 - Note also that Tucson Audubon has develop a number of proposal for avian monitoring both on SPRNCA and LCNCA (a result of initial meetings of this working group). BLM is hoping to get these funded, but has not yet been

successful. If other partners are aware of avenues to fund these proposals that would be beneficial.

- Aquatic species should be included - there are streamflow permanence cameras and wet-dry mapping.
- Sky Island Alliance - has set up wildlife cameras for multi-species monitoring focused on medium to large mammals. Cameras now are at southern border of SPRNCA. They are interested in expanding north up the riparian area, funding dependent.
- Partners shared that this effort to develop a monitoring plan feels useful. A one-stop shop for all the monitoring going on in SPRNCA would be valuable.

Note: Meetings from October 2021 - April 2022 were with a sub-team focused on moving forward with avian monitoring on the SPRNCA. Participants in these discussions: Keith Hughes (BLM), Mark McCabe (BLM), Tice Supplee (Audubon SW), Jennie McFarlin (Tucson Audubon), Amy McGowan (BLM)

October 1, 2021 | 10:30am - 12:00pm

Agenda

1. Overview of adaptive management process and purpose of this working group
2. Overview of BLM priority riparian and aquatic topics
3. Partners' work and identification of priorities
 - a. What are you/your organization/agency working on related to riparian and aquatic resources?
 - b. What are your priorities related to the SPRNCA?
 - c. What would make this working group most useful to you?

Participants

Partners:

Betsy Grube, AZGFD

Brian Hickerson, AZGFD

Nathan Berg, AZGFD

Catie Armstron, Community Watershed Alliance

Laura White, Community Watershed Alliance

Diane Laush, Lower San Pedro Watershed Alliance

Emily Burns, Sky Island Alliance

Holly Richter, The Nature Conservancy

Mark Briggs, RiversEdge West

Tricia Gerrodette

Tice Supplee, Audubon Southwest

Jennifer Martin, Tucson Audubon

BLM: Margie Guzman, Amy McGowan, Dave Murray, Christina Perez

Next steps/actions

- Update overview doc with input from today (SDR)
- Need more wildlife focus in this group and participation on that front from BLM
- Ideas for follow-up
 - Avian monitoring (Audubon, etc.)
 - Inventory of existing/past monitoring
 - Mapping - existing data, monitoring, existing efforts, where beaver are (Watershed Management group is doing this), monitoring for YBC and other things, fisheries work, Stromberg identified reaches, etc.)

~Notes~

Process overview - Tahnee Robertson/Amy McGowan

Presentation available upon request. Main points:

- The Resource Management Plan (RMP) was signed in 2019, and we are now in the implementation stage. BLM is working to figure out what projects to develop to meet goals and objectives.
- This working group will help to establish monitoring and data collection to reach RMP goals, and potentially help to refine objectives in RMP.

BLM riparian/aquatic priorities - Dave Murray

- Monitoring
 - Lotic AIM: This was collected in April 2021, and is now being QAQC'd at the national office in Denver. In the future this group will help review this data.
 - Recent MOU: signed by BLM, Cochise County, City of Sierra Vista to work on riparian transect and hydrologic monitoring.
- T&E species monitoring and augmentations
 - Work at White House wetland pond is planned - working on DNA (Existing EA).
 - The area needs to be excavated and cleared of vegetation. Fence and solar panels and pump are all in place. Coordinate with AZGFD to reintroduce native fish. Possible completion FY22.
 - Work with AGFD in sites with topminnow and pupfish. Have completed reintroduction monitoring to see if augmentation is needed.
 - Have worked with Pima County, Arizona-Sonora Desert Museum, and USFWS to aid in the recovery of Arizona eryngo
 - Plantings and monitoring
 - HWU monitoring on mainstem (working out methods and frequency with FWS)

Questions/Discussion

- Will there be wildlife monitoring? (Need to ask Mark McCabe, wildlife biologist. He will coordinate with this team. He is working on SWFL and YBC)
- Beaver are being monitored in coordination with Watershed Management Group.
- What about water umbel?
 - Up until 5 years ago it was monitored on the main stem. Now it is monitored in wet- dry
 - Note that any water umbel observations noted during wet-dry are very random, and not intended to be a consistent, comprehensive inventory
 - It's concerning that water umbel not being monitored on main stem. Believe this is BLM responsibility to monitor as a listed species
- Aside from wet/dry mapping, what other hydrologic monitoring is taking place, including shallow groundwater?
 - There is the recent MOU and new monitoring protocols. BLM is working on this for the future. Part of implementing the RMP. Water umbel is on the radar, and BLM is currently doing some work with water umbel. While there hasn't been an been an extensive monitoring program yet, BLM is working toward this.
- During the development of the RMP there were efforts to be more succinct about monitoring and AIM. Lots of input was given. For this group to be useful, would like to see AIM implementation. We need a structured approach by this group to identify what info is collected, who has it, and how it fits together. A major comment during the RMP process was to not walk away from research by Stromberg. Need coordinated system through this group.
 - Note that Stromberg's riparian health classification work is forming the basis for the adaptive management plan under the new MOU. This uses the classifications and segments identified to determine trend over time. It includes an update of current health and projection of future health. It includes a lot of hydro-data; need to review
 - There is concern that the baseline is being altered
- Would like to see info on streamflow. Concern that there is a lot of biologic monitoring, but not much on ecohydrology. What are thresholds for species? How will they be effected when streamflow changes?
- SPRNCA water needs report (USGS) - [link](#)
- MOU article [link](#)

Partner priorities

What are partners priorities related to aquatic and riparian resources in and around the SPRNCA?

Lower San Pedro Watershed Alliance (Diane)

- The LSPWA is a group of 205 members, including federal and state and local land owners. The Lower San Pedro is from Benson north to the Gila confluence. This group has a vested interest in these resources.

- Have MOU with BOR for conservation easement with Three Links Farm and other mitigation properties on the San Pedro.
- Want consistent management and goals throughout the whole San Pedro, not a division between upper and lower
- Biggest need - eliminate unauthorized grazing from SPRNCA. Concerned with how BLM is addressing these issues. SPRNCA should be the gold standard for management along San Pedro. Want to ensure protection pursuant to authorizing legislation.
- SPRNCA should be a control site to see how riparian areas develop without grazing in the uplands.
- Would like to see more wildlife participation in this group; right now it seems heavily focused on aquatic.
- Would like to know what LSPWA can contribute to this process

Community Watershed Alliance (Catie, Laura)

- CWA is focused on the St. David Cienega. Have been waiting for RMP approval to initiate restoration work in the Cienega area.
- Recent burn was great step in right direction
- CWA is interested in knowing more about what types of restoration work are being planned and how we can help move that forward
- It is useful to hear different perspectives and what others are doing; good to have space to share concerns and ask questions

Sky Island Alliance (Emily)

- SIA could contribute to technical review. Interest in collaborating if we can fill a niche on monitoring work.
- Support idea of riparian habitat as backbone for a much larger system. If wildlife isn't part of other groups, it should be discussed here.
- Disruptions at border need attention. Need to document impacts of floodgates and infrastructure.
- We use the TEAMS Vertebrate Monitoring Protocol to the west of the SPRNCA along 30 miles of the border (a 70-camera gridded array) to evaluate the medium-large mammalian community. I'd be interested to see if the terrestrial wildlife community is being monitored in a comparable way in the SPRNCA, or if we can do this. I also think wildlife behavior monitoring is needed at the flood gates, so starting a study that would watch crossing like we would at a highway crossing. More on our current study to the west: <https://skyislandalliance.org/our-work/wildlife-program/borderwildlife/>

RiversEdge West (Mark)

- Haven't worked on SPRNCA in awhile. Currently working on Gila, Verde and Lower Colorado River.
- Work is mostly focused on riparian monitoring and strategic planning

- Would like to focus on these things. Very supportive of doing a bio-hydro monitoring/data inventory and review
- Most useful would be figuring out what success for these river systems realistically means. How can we understand and interpret our monitoring data, and what management can be undertaken to have desired impacts/outcomes? Want to tie together with monitoring systems in other rivers.

Tricia G.

- Important to know how community science work might or might not be part of what this group will do. There is a lot of science out of USPP. But entities don't have the money to keep it going at that level. How important will community science be moving forward?
- Regarding the border wall - there are some groups that are doing wildlife monitoring with game cameras. Important to bring that in.
- Concern about a new baseline. There is 25 years of intense study that needs to be part of the baseline.

Game and Fish (Nate, Betsy, Brian)

- Nate focuses on sport fish management. Betsy and Brian will likely have more to contribute to this group.
- Brian focuses on native fish work. There is a regional native fish conservation team meeting every spring. This is where a lot of coordination happens already. That coordination may be sufficient to cover T&E species related stuff. Our role will continue to be close coordination with Christina.

Audubon SW (Tice)

- Audubon focus is on the avian component. SPRNCA is a Globally Important Bird Area. It deserves a coherent avian program.
- Community science is a big opportunity. Audubon has worked with trained volunteers to collect data on SPRNCA - bring this effort back.
- Need to better understand YBC monitoring. SPRNCA is key area. Community science may be useful here.
- Also significant corridor for Gray Hawk.
- Would like to see linkage of those efforts to the Stromberg reachers. Avian monitoring should inform our understand of the health of the corridor.
- Audubon can train volunteers.
- Would be good for WMG to step up with beaver monitoring here.
- We need a comprehensive map of all existing data, monitoring etc. Need to see the lay of the land

Sierra Club - Water Sentinels (Jennifer)

- Work on water quality monitoring once a month on the river

- Priorities - living river flowing through healthy ecosystem
- This group would be most useful in supporting cross-pollination that helps bring in new trained volunteers.

The Nature Conservancy (Holly)

- Support citizen science focus
- Started wet-dry mapping 2ish years ago
- Focus - water availability. Management outside SPRNCA effects this.
- Useful: integration with USPP and other efforts. Help make relevant data available to those who need it.

Who else needs to be involved?

- ADEQ - Dave M. reached out but they said they can't be part of this
- USFWS - capacity is low
- USGS - who?

What's next

- Timing of next meeting - Every 2-3 months
- Potential field trip?
- Upcoming topics:
 - Would like to see a more detailed presentation by BLM on wildlife monitoring.
 - Lightning presentations of different monitoring efforts