



Consortium Highlights in This Update

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Reminder - 2021 Membership Agreements Due in February

This is a reminder that the 2021 Consortium Membership Agreements have been sent out. The Agreement is the same as for 2021 and dues are due by February.

Membership dues for any company or organization, except state and federal agencies and Sponsors, is \$500 per year. Sponsor dues are covered as part of a sponsorship and government agency representatives do not have to pay any dues. Multiple company or organization members can participate in Working Groups and Task Committees with one membership.

If you have any questions or need to get a Membership Agreement sent to you, please contact: Monica Dunivan, Membership Coordinator, at morascon@nmsu.edu, or 575-646-2913 for assistance.

NM Legislative Session Information

In 2022, the NM Legislature will meet from January 17th through mid-February. This year legislative efforts by law focus on spending bills. Because of a significant increase in oil and gas revenues and COVID economic recovery funding from the federal government, New Mexico will have a large funding surplus for 2022. NMSU will be asking for \$10M in state funding for the Consortium to support research efforts through fiscal year 2025. NMED supports this appropriation for Consortium research.

As far as other legislation, the Consortium will only provide technical information to the legislature as requested by either legislators or NMED.

If you want to provide testimony to support specific legislation, please identify yourself as representing your company or organization, and not the Consortium. Failure to follow these guidelines could lead to termination of Consortium membership as outlined in the Membership Agreement.

Consortium Web-site Upgrades

The Consortium web-site is undergoing a complete upgrade. All Consortium background information, presentations, meeting summaries and presentations, are being reworked to enable better public access to documents, as well as easier access to upcoming events.

This will enable better information sharing, better access to information on produced water, and quicker access and information on Consortium efforts, activities, and upcoming public education and outreach efforts. The upgrades are scheduled to be completed by mid-January 2022. Access to the website remains <https://nmpwrc.nmsu.edu>.

Or you can google NMPWRC and get a link that will take you directly to the web site. We hope this upgrade will better support Consortium efforts and information dissemination.

December 2021 End of Year Meeting Information

On December 1-2, 2021, the Consortium held an end-of-year program review at the NM Farm and Ranch Museum in Las Cruces, NM. The agenda included overviews and status reports of all the activities and accomplishments of each of the Task Committees for 2021, as well as tours of NMSU laboratories and research areas being used to support produced water research, as well as tours of the Brackish Groundwater National Desalination Research Facility. Approximately 90 participants registered for the in-person meeting. Of those, about 40 people participated in the NMSU laboratory tours and about 35 participated in the BGNDRF tours.

Each of the 2021 Task Committees provided a panel discussion and presentations of their 2021 efforts and accomplishments. All of the presentations are being posted to the Consortium website and should be available for review by mid-January 2022.

Consortium 2021 Program Summary Report

Each year Consortium management prepares a summary report of Working Group and Task Committee efforts and activities related to the goals, objectives, and priorities. Both the 2021 Consortium Program Plan, and the 2021 Consortium Summary Report will be available on the Consortium web site by mid-January 2022 for review.

NMED Letter on 2022 Technology Testing Requirements

NMED has released their guidance and requirements for technology testing by the Consortium in 2022. The guidance was outlined at the end-of-year meeting in December and is similar to 2021. Overall, pilot treatment projects will not be able to discharge and will need to recombine the treated water and waste water streams and dispose of in a licensed disposal facility. Any projects considering using treated produced water for an application will require an NMED authorization if using a permitted location, or require a permit if not at an already permitted location. The guidance has been posted on the NMED website at: <https://www.env.nm.gov/new-mexico-produced-water/nmsu-mou/>, underneath the 2021 no discharge memo near the bottom.

2022 Program Plan and Working Group/Task Committees for 2022

Consortium Management has developed a 2022 Program Plan. The research emphasis this year will be on 1) treatment technology testing and evaluation, 2) risk and toxicology modeling and testing information, 3) collection of additional SWD water quality data to supplement the Produced Water Data Portal data sets, 4) treatment and reuse infrastructure planning and scenario analysis, 5) QA/QC of socio-economic model and improve human and environment risk model, and 6) increase public education and outreach efforts.

For 2022 we will include the following Working Group and Task Committees and their associated meeting schedule:

- **Treatment Technology Testing and Evaluation Working Group**- Monthly
Will track treatment technology demonstration schedules and will have their own Project Evaluation Team committees to direct and review testing and results in 2022
- **Risk and Toxicology Working Group** - Bi-weekly
Will include separate committees to coordinate specific risk analysis, toxicology testing and analysis, and fate and transport modeling and analysis efforts
- **Produced Water Data Collection and Integration Working Group** - Monthly
Will coordinate collection of produced water disposal water quality data from SWD well operators and integrate into the Produced Water Data Portal to improve water quality data and better support treatment and reuse applications
- **Infrastructure and Scenario Planning Working Group** - Monthly
Will coordinate scenario planning and analysis of potential and likely produced water disposal volumes and qualities based on various drilling, operation, and disposal regulations and directives to assess treatment infrastructure needs
- **Socio-economic Ecologic Modeling Working Group** - Monthly
Will conduct QA/QC analysis of socioeconomic model, support efforts to apply to San Juan Basin, and integrate updated human and ecological risk model to support policies and regulations on treatment needs for fit-for-purpose applications
- **Public Education and Outreach Working Group** - Monthly
Will continue and expand public education and outreach efforts by improving web access to the public, add more educational materials such as pod casts and video workshops, update workshop data, and expand number of in-person workshops

The Treatment Research and Risk and Toxicology Working Groups will meet the most often and have the most committees due to the number of separate efforts included in these two Working Groups.

Initial 2022 Working Group Zoom Calls

As in 2021, any participant from a Member of the Consortium can participate in as many Working Groups and subcommittees as they wish to volunteer for.

This year, each Working Group and subcommittee will have a lead and co-lead from the Consortium membership to coordinate agendas, efforts, and meeting minutes. The tenure will be for half a year and will be helped by Consortium management.

The dates and times for the **initial 2022 Working Groups** calls are:

- **Monday, January 10th (and then biweekly)**
 - **9-10:00 am MT – Risk and Toxicology Working Groups**
- **Tuesday, January 25th (and then monthly as decided)**
 - **9-10:00 am MT – Treatment Working Group**
 - **10-11:00 am MT - Produced Water Data and Portal Working Group**
- **Wednesday, January 26th (and then monthly as decided)**
 - **9-10:00 am MT - Infrastructure and Scenario Planning Working Group**
 - **10-11:00 am MT - Socio-economic Environmental CBA Working Group**
- **Thursday, January 27th (and then monthly as decided)**
 - **9-10:00 am MT - Public Education and Outreach Working Group**

To Join a Working Group Zoom Meeting use this link.

<https://nmsu.zoom.us/j/8790602909>

Meeting ID: 879 060 2909

To Dial in by phone you can participate based on your location by calling:

+1 346 248 7799 US (Houston)

+1 669 900 6833 US (San Jose)

Each meeting will cover working group updates and relevant task committee progress, issues, reviews, schedule changes, etc.

Q1 Treatment Technology Testing

There are currently four different technology testing efforts expected in the first Quarter of 2022. They include a pre-treatment study and a thermal treatment study at BGNDRF, a pilot thermal treatment demonstration in the San Juan Basin, and a laboratory thermal treatment study conducted in Houston. These studies will be coordinated through the Treatment Working Group and Project Evaluation Teams for each technology.