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ATTACHMENT B

NM Produced Water Research Consortium

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NM STATE

Information Sharing Plan

This plan identifies the minimum information required by NMED on all projects dealing with the potential use of produced water or treated produced water outside the oil and gas industry or uses conducted on oil and gas sites that are not directly related to development, production, or reclamation activities for oil and gas.

The information is necessary to make initial determinations regarding jurisdictional responsibilities and requirements for proposed projects.

1. Initial information requirements for all projects
   a. Name of Company
   b. Address
   c. Contact person and info
   d. Type of Project (lab, bench scale, pilot, field, combination, other)
   e. Affirmation: There is no discharge of produced water or treated produced water to the surface or groundwater.
   f. Affirmation: The project will be conducted as a closed loop system.
   g. Basin of origin of produced water to be used: San Juan or Permian Basin
   h. Project: does technology testing take place inside or outside of the oil / gas field?
   i. Project: is treated produced water to be used inside or outside of the oil /gas field?
   j. Project: what is the proposed use of the treated produced water?
   k. Funding source and amount of PWRC funding (self-funded, PWRC funded (amount), or combination

   l. Company description /biography (experience, types of technology, primary work of company, website)
   m. Executive Summary (one to two paragraphs describing the general purpose of the project and expected benefits of proposed technology process)
   n. Project Goals (one to two paragraphs describing what the goals are for the project to accomplish-days operational, stability, quality & quantity of distillate, barrels of distillate produced, etc.)
   o. Site location / identification (identify locations where all phases or parts of the project are to be conducted including address, Section, Township, Range, GPS coordinates, site description). Include an aerial map with basic design features on the map, including

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adjacent roads, north arrow, scale, equipment, fencing and other pertinent information.

p. Provide written driving instructions on how to reach the site from Albuquerque.
q. Site Description: type of facility where all parts of the pilot are to be conducted—BGNDRF, university laboratory, permitted recycling facility, well pad, other)
r. Land status: (identify ownership status for all project locations (private, federal, state, BLM, Tribal, USFS, other.)
s. Are any parts of the project conducted or sourced within the exterior boundaries of a Native American Reservation?
t. Provide list of all landowners adjacent to proposed project locations and provide confirmation that adjacent owners have been notified regarding the proposed project. Provide the source of the adjacent landowner data.
u. Proposed schedule (dates of proposed testing, duration of testing, etc.)
v. Technology Performance Objectives (treatment target goals: treated water recovery in bbls/day, daily operational target (hrs/day), treated produced water recovery target % of raw water feed, quality target, initial TDS and targeted TDS after treatment, source water data, basin, formation, and other pertinent data.)
w. Treatment system design and process: (brief description of the general technology to be used, how the process will flow, expected results, site diagram of project set-up)
x. Emergency response plan for spills or releases of produced water or treated produced water.
y. Disposal and decommissioning plan (where will produced water and treated produced water be disposed of, where will soils, plant materials, other equipment used in project be disposed of. How will equipment used in project be decontaminated)?
z. Certification that applicant will fully comply with all consortium requirements and guidance documents related to the following:
aa. Guidance on Produced Water Sampling Procedure.
bb. Guidance on Produced Water Treatment Research, Development, and Demonstration Testing and Evaluation.

2. Submittal schedule for proposed projects
   a. Initial Project Proposal Summary must be submitted to NMPWRC at least 90 days prior to proposed start date to allow for review by NMED, EMNRD/OCD, and Government Advisory Board.
   b. Monthly status report to NMPWRC to report schedule or changes, status of project, and other pertinent information.
   c. Final project summary and closeout report to NMPWRC within 30 days of project completion.

Note: Additional information may be required by regulatory agencies upon review of initial project submittals.

This attachment may be incorporated into the "Guidance On Produced Water Treatment Research, Development, and Pilot-Scale Demonstration Testing and Evaluation" document.

NM Produced Water Research Consortium - Attachment B

1. Initial information requirements for all projects
    a. RainDance Treatment Company
    b. 202 East Tips St. Three Rivers, TX 78071
    c. Primary: Jason Muniz, Founder, jason@raindanceservices.net Secondary: John Michael Barron, II, Consultant, jmbarron87@gmail.com
    d. Bench-Scale Demonstration Project
    e. There will be no discharge of produced water or treated produced water to surface or groundwater. All treated water will be collected in holding tanks for sampling before being blended back residual streams for reinjection into saltwater disposal wells (SWDs).
    f. The project operates as a fully closed-loop, non-discharging process. All treated water and residuals are managed within the closed system and disposed of per regulatory requirements, with no environmental discharge at any stage.
    g. The produced water originates from the Permian Basin, which encompasses southeastern New Mexico and West Texas.
    h. Technology testing takes place outside of the oil and gas field, specifically at the BGNDRF facility located at 500 La Velle Road, Alamogordo, NM 88310.
    i. The treated produced water will be used for research purposes at the BGNDRF facility, outside of direct oil and gas field operations.
    j. The treated water serves exclusively research purposes during this pilot phase. The distillate will be collected in holding tanks for sampling and analysis before being recombined with residual streams for injection into SWDs, supporting future beneficial reuse evaluation.
    k. Self-Funded
    l. RainDance specializes as an innovative water treatment company focusing on advanced oilfield and industrial water recycling technologies. As a licensee of 14 patented water treatment processes, the company provides solutions that reduce salt levels, eliminate bacteria, lower Total Dissolved Solids (TDS), and generate Chlorine Dioxide (ClO2) as a byproduct. The technology has been successfully licensed and implemented across international locations including Qatar, Pennsylvania, and the Texas Panhandle over eight years, demonstrating improvements in water quality, cost efficiency, and environmental compliance.
    m. RainDance addresses critical water management challenges through cutting-edge solutions that effectively reduce salt levels, eliminate bacteria, lower TDS, and generate ClO2 as a beneficial byproduct. The proprietary systems have demonstrated significant improvements in water quality, cost efficiency, and environmental compliance across diverse geographic locations. With a strong focus on sustainable water reuse, RainDance aligns with New Mexico's Strategic Water Supply Program, offering scalable, mobile, and permanent treatment solutions to support industries in meeting regulatory requirements while reducing freshwater resource dependence.

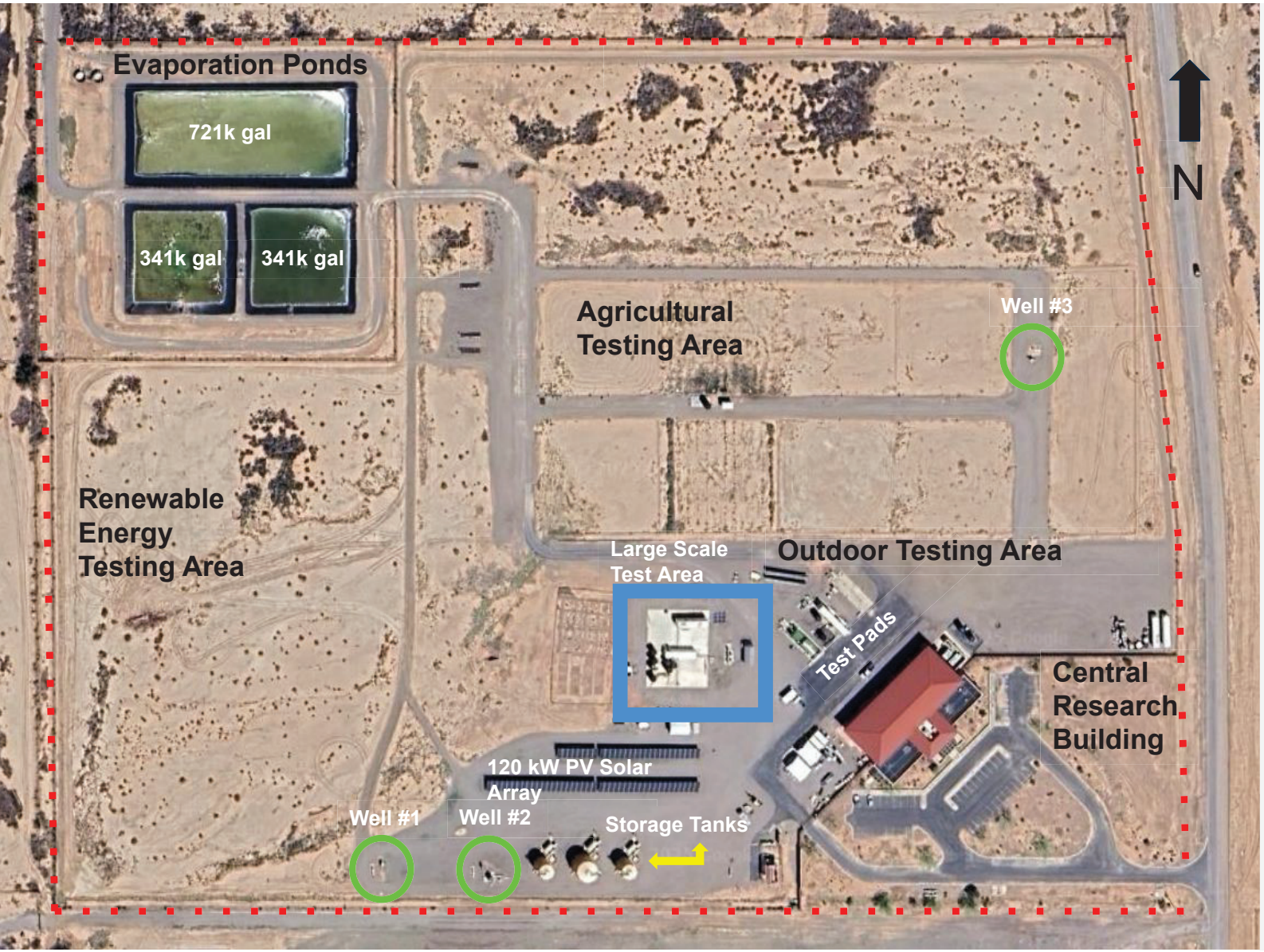
n. The pilot project aims to evaluate the effectiveness of cavitation and plasma tube electrochemical processes combined with filtration in removing key contaminants from Permian Basin produced water. Specific objectives include generating data on water quality improvement, operational performance, and residual stream management, with all brine concentrate converted to chlorine dioxide and no brine concentrate requiring disposal. The project will provide Consortium-validated data to inform regulatory, scientific, and industry understanding of advanced produced water treatment options for potential future beneficial reuse.
o. The pilot project is conducted at the Brackish Groundwater National Desalination Research Facility (BGNDRF), located at 500 La Velle Road, Alamogordo, NM 88310, in Otero County, New Mexico. The facility operates within federal land administered by the U.S. Bureau of Reclamation (USBR). The facility is within Section 36, Township 16 South (T16S), Range 9 East (R9E) of the Public Land Survey System (PLSS), as documented in regulatory filings and NMED permits. The facility's precise GPS coordinates are 32.881777°N latitude and -105.9725°W longitude. Aerial Map attached.
p. Begin with a 4-minute, 1.2 mile departure via Interstate 25 South (I-25 S). Continue southbound on I-25 S before transitioning east onto US Highway 380 (US-380 E) and subsequently west onto US Highway 54 (US-54 W), covering 208 miles over approximately 3 hours and 3 minutes. Upon reaching Alamogordo in Otero County, follow Alamogordo Drive northwest before turning onto Lavelle Road for the final 1-mile approach to the destination, completing the journey in about 2 minutes.
q. BGNDRF serves as a federally owned and operated research facility managed by the USBR. The facility specializes in brackish groundwater research and alternative water treatment technologies. The site features controlled access, security infrastructure, and dedicated research laboratory facilities designed for water treatment pilot projects.
r. The BGNDRF facility is federally owned and operated under USBR management. Surrounding parcels include privately owned and federal lands, primarily managed by the USBR and the City of Alamogordo. All site activities must comply with USBR facility rules and federal security protocols.
s. The project is not conducted within the exterior boundaries of a Native American Reservation. The BGNDRF facility location falls outside tribal jurisdiction areas.
t. There are no private landowners directly adjacent to the BGNDRF campus. The facility operates within federal boundaries, eliminating the need for adjacent private property owner notifications. Coordination requirements focus on federal facility management and relevant regulatory agencies.
u. No earlier than 06/16/2025. Two Weeks Testing Duration (minimum).
v. The treatment system targets TDS reduction exceeding 95% (achieving <1,000 mg/L), Total Organic Carbon reduction surpassing 98% (<2 mg/L), and Total Petroleum Hydrocarbons reduction to non-detectable levels or <1 mg/L. Additional objectives include iron reduction to <1 mg/L, hydrogen sulfide

elimination to non-detectable levels, ammonia-nitrogen reduction exceeding 70%, turbidity reduction to <1 NTU, and total bacteria reduction to <1 CFU/mL.

w. The RainDance pilot system employs a modular, multi-stage produced water treatment process designed for bench-scale operation. The treatment train consists of three primary components: First, a cavitation reactor that uses hydrodynamic cavitation as the exclusive pretreatment step, generating intense local energy through rapid vapor bubble formation and collapse, resulting in suspended solids breakdown, emulsified oil separation, microbial contaminant disruption, and enhanced organic pollutant removal through oxidation and radical generation. Second, plasma tube electrochemical disinfection generates chlorine dioxide directly from the produced water matrix, providing robust disinfection, advanced oxidation, and targeted contaminant removal without hazardous chemical additives. This process achieves greater than 99.9% bacteria reduction, efficient hydrogen sulfide and iron removal, and in situ ClO2 generation for high-efficiency disinfection. Third, filtration provides final polishing of treated water, removing fine suspended solids, residual organics, trace metals, and remaining oxidized contaminants.
x. The emergency response framework includes 24/7 emergency contact information posted at the pilot site and provided to all personnel. BGNDRF maintains comprehensive emergency response capability, with all security or safety incidents reported immediately to the BGNDRF Facility Manager and documented according to federal facility procedures. Emergency procedures include evacuation routes, assembly points, spill containment protocols, and communication systems coordinated with federal facility management.
y. All produced water, treated water, and residuals will be recombined and disposed of via injection into a permitted saltwater disposal well as coordinated by NMPWRC and BGNDRF. Major treatment system components will be thoroughly cleaned, decontaminated, and retained for reuse in future pilot projects. Spent filter media and expendable materials will be characterized and disposed of at permitted facilities according to NMED regulations. Any contaminated soils will be excavated, characterized, and disposed of at permitted landfills with confirmation sampling conducted to verify contamination removal. The site will be restored to pre-project conditions with comprehensive documentation of all disposal and decommissioning activities.
z. RainDance certifies full compliance with all consortium requirements and guidance documents, including the Guidance on Produced Water Sampling Procedure and the Guidance on Produced Water Treatment Research, Development, and Demonstration Testing and Evaluation. All activities will be conducted in accordance with NMED regulations, NMPWRC protocols, BGNDRF facility requirements, and applicable federal, state, and local environmental protection standards.
aa. The Guidance on Produced Water Sampling Procedure, developed by the New Mexico Produced Water Research Consortium (NMPWRC) in alignment with EPA SW-846 methodologies, establishes standardized protocols for collecting

and preserving untreated and treated produced water samples during pilot projects, ensuring data integrity and regulatory compliance. Sampling requires strict adherence to safety protocols, including OSHA-approved PPE and confined space entry procedures for hazardous environments like tanks or separators. Representative sampling points are selected with duplicate/triplicate samples for volatile organic compounds (VOCs) to account for heterogeneity and degassing. Equipment is triple-rinsed with site-specific water to prevent cross-contamination, and samples are preserved immediately. The protocol emphasizes closed-loop, no-discharge systems, requiring coordination with NMPWRC for risk/toxicology testing and compliance with NMED, EPA, and federal regulations to protect groundwater and surface water quality.

bb. The Guidance on Produced Water Treatment Research, Development, Demonstration Testing, and Evaluation, developed by the NMPWRC in collaboration with NMED, establishes a phased framework for advancing produced water treatment technologies from laboratory research to pilot-scale validation. This protocol mandates bench-scale testing at facilities like the BGNDRF to assess contaminant removal efficacy under controlled conditions, followed by pilot demonstrations requiring detailed operational plans, closed-loop system designs, and compliance with no-discharge policies. The guidance emphasizes rigorous sampling protocols aligned with EPA methodologies, risk/toxicology assessments coordinated through NMPWRC, and data collection on treatment performance, energy use, and cost efficiency to inform regulatory decisions. Projects must submit Pilot Planning Documents and Demonstration Test Plans addressing safety, site security, emergency response, and disposal protocols, with final evaluations synthesizing operational data to validate technology readiness for potential beneficial reuse applications outside the oil and gas sector.



BGNDRF Testing Site

500 La Velle Road
Alamogordo, NM 88310

- BGNDRF Boundary
- Brackish Source Wells
- RainDance System Rig Up