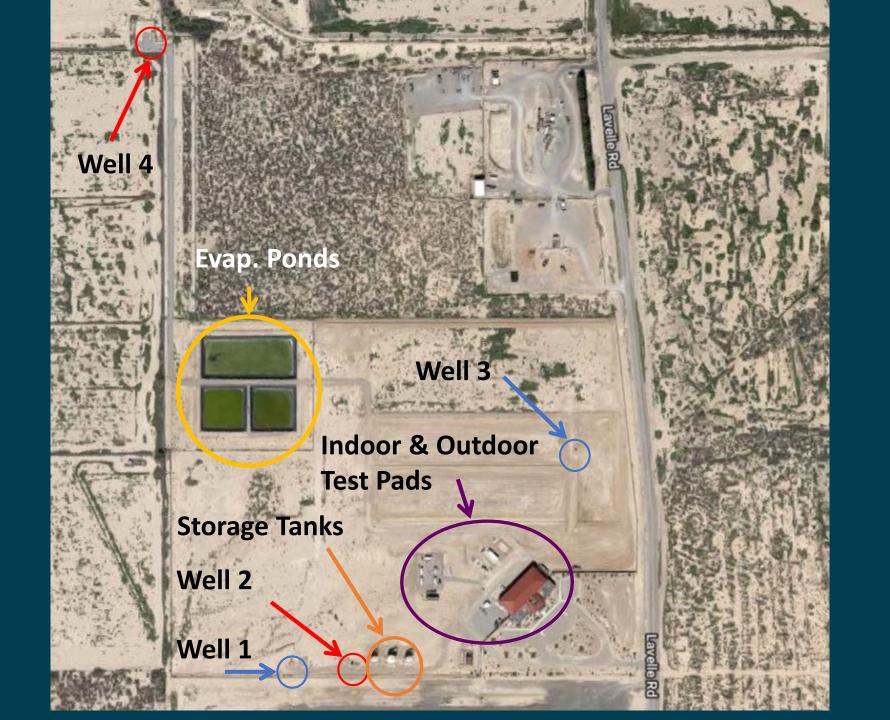


## Background

- 43 Acre Complex
- Primarily Focused on Pilot Scale Technologies
- Clients: Universities, Businesses, Entrepreneurs, Government Agencies etc.
- Indoor Test Bays, Outdoor Test Pads, 5-acre Agriculture Research Area, Evaporation Ponds





# Various Types of Testing Performed at BGNDRF

- Proof of Concept
- Research and Development (R&D)
- Third Party Validation
- Reclamation Verification Testing
- Demonstration

# #1 – Variety of Waters Available at One Location

- 4 Brackish Groundwater Wells
  - TDS: 1,200 to 5,900 mg/L
  - Warm Groundwater: 104 deg F, TDS of 1,200 mg/L
  - PFAS in 2 of 4 Wells
  - Water Chemistry on BGNDRF Website

- Evaporation Pond Concentrate
  - 20,000 to >200,000 mg/L
  - Pond Water Chemistry on BGNDRF Website

#### #1 - Continued

- Special Water Shipped to BGNDRF Including:
  - Produced Water
  - Septage and Wastewater
  - Blended BGNDRF Well Water
  - Other

## #2 – Facility Use Fees Waived

2012 Fee Schedule (subject to change)	Price	Unit
Level 3 Engineer/Scientist	976	\$/Staff Day
Level 2 Engineer/Scientist	800	\$/ Staff Day
Level 1 Technicians	592	\$/ Staff Day
-Interior Bay Rental	250	\$/week
Exterior Bay Rental	400	\$/week
Power	0.15	Φ /I-XX/Io-
Water DO Damage (Catan Carana)	10	Φ/L - 1
On site around duster		φ/kgai
Imported (Depends on source)		TDD
Imported (Depends on Source)		100

## #2 – Facility Use Fees Waived

- Facility Use Fees Waived Through September 30, 2020
- New Facility Use Fees Implemented October 1, 2020
  - Propose charges for electricity, water and equipment storage fees

## #3 – NMED Discharge Permit

- The work and expense of getting a discharge permit is already done at BGNDRF
  - Discharge to our evaporation ponds
  - Discharge to the city waste water treatment plant with some upcoming restrictions
  - Land apply up to 4,200 mg/L water up to a specified volume per year

## #4 – Flexible Operating Times

• Open 24 hrs/day, 7 days/week on request

#### #5 – Local Affordable Labor

- ~\$12/hour Unskilled
- ~\$25/hour Skilled with Some College Education

## #6 – Broad Project Exposure

- Numerous Tours Throughout the Year
  - Pitch to Pilot Event
  - Congresswoman Torres Small and Group of Agriculture Specialists
  - Illinois Farm Bureau Young Leader Program
  - NM Legislative Science and Technology Committee
  - NMSUA Natural Resource Management Class
  - Two Nations One Water Conference Tour
- Option of Non-Public Exposure

### #7 – Two Nearby Universities

- NMSU is ~60 miles away in Las Cruces
  - Dr. Pei Xu
- UTEP CIDS ~ 80 miles away in El Paso
  - Dr. Shane Walker
- 3rd Party Validation
- Add Technical Expertise
- University equipment on site that might be available for collaborative efforts
- Reports

## #8 – BGNDRF Verification Report

- Work with Dr. Zach Stoll, BGNDRF's Research Scientist
  - Pay for his time
- Planning meeting
  - Discuss technology claims to be verified
  - Discuss minimum mandatory reporting requirements
  - Zach's involvement in the testing phase
- Test Plan
- Testing and Data Collection
- Data Analysis by Zach
- Final Report No Endorsements

### #9 – Annual WIN Workshop

- Presentation of your work to an audience with a wide range of interests
- Rich networking environment

#### #10 – Amenities of BGNDRF

- Office Space
- Water Lab
- Conference Room
- Service-Oriented Staff
- Philosophy of "Let's find a way to do it"

# Questions Regarding Bringing a Project to BGNDRF

- Talk to myself or any of the staff and they can help answer questions
- Tours Zach will be in the laboratory and can answer questions

