



Magnolia Sequestration Project

(FE0032339)

CarbonSAFE Phase III

Magnolia Sequestration Hub, LLC

Principal Investigator: Kelly Watson

2023 Carbon Management Research Project Review Meeting

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Project Objective and Status

The Magnolia Sequestration Project seeks to meet the regional needs to securely store CO₂ captured from point source emitters and carbon removal facilities along the Louisiana Gulf Coast.

The project objective is to demonstrate technical and commercial feasibility of a large-scale CO₂ sequestration hub for permanent geologic storage with a Phase 1 capacity of 60 million metric tons (Mt) of CO₂ over a period of 15 years.

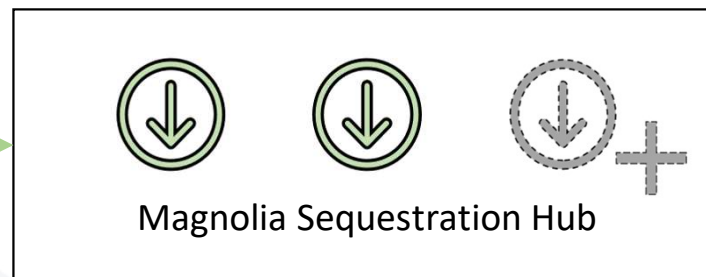


This project is in the Pre-Award phase. All Objectives, Locations, Participants, Approach, Scope, Community Benefits, etc. are proposed.

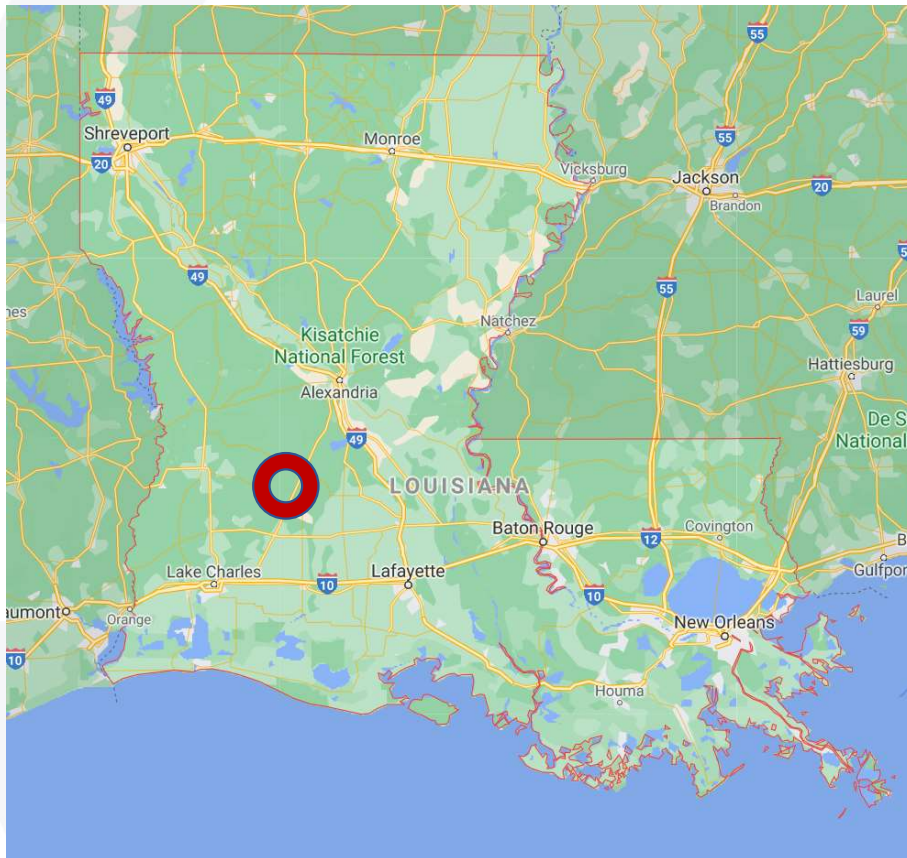
Project Concept



- Sequestration Hub serving multiple capture facilities of varying sizes
- Phase 1 is a two-well project to sequester 60 million Mt over 15 years
- Additional capacity to serve additional future emitters

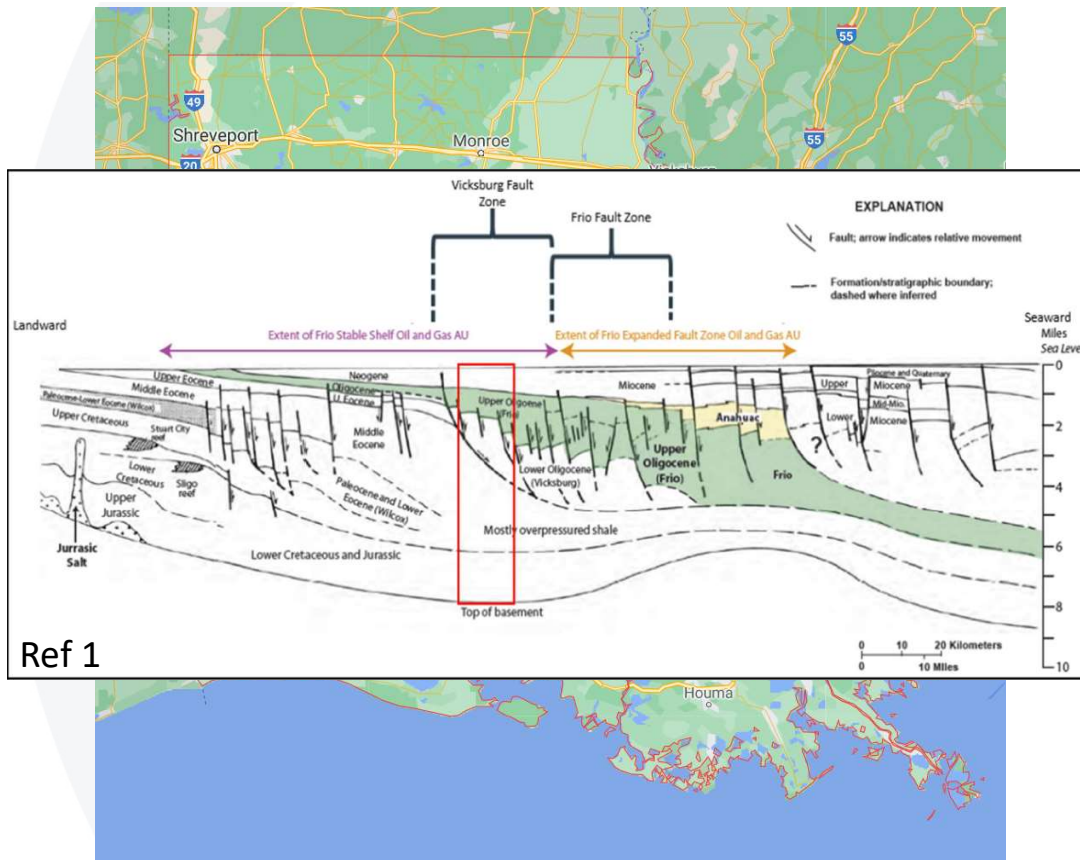


Project Overview: Location



- South-Central Louisiana offers prime location for gathering CO₂ from multiple capture facilities

Project Overview: Location

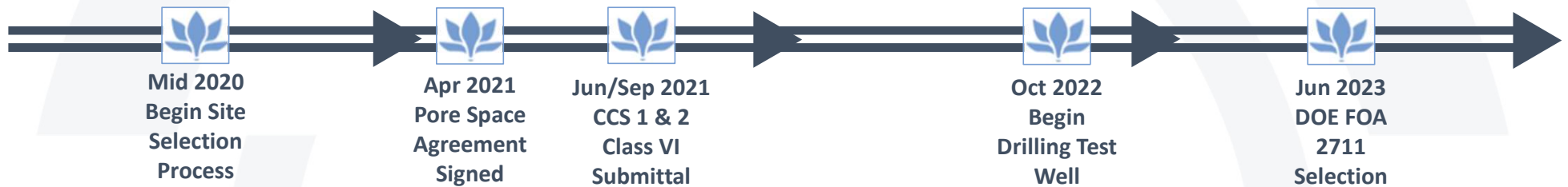


- South-Central Louisiana offers prime location for gathering CO₂ from multiple capture facilities
- Subsurface offers a stable environment, thick sandstones, and excellent porosity

Ref 1: modified from <https://pubs.usgs.gov/of/2013/1257/pdf/of2013-1257.pdf>

All objectives, Locations, Participants, Approach, Scope, Community Benefits, etc. are proposed.

Project Overview: Progress

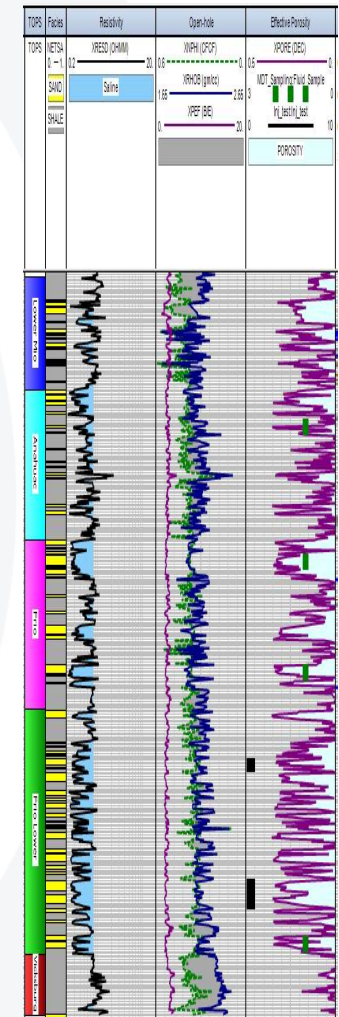
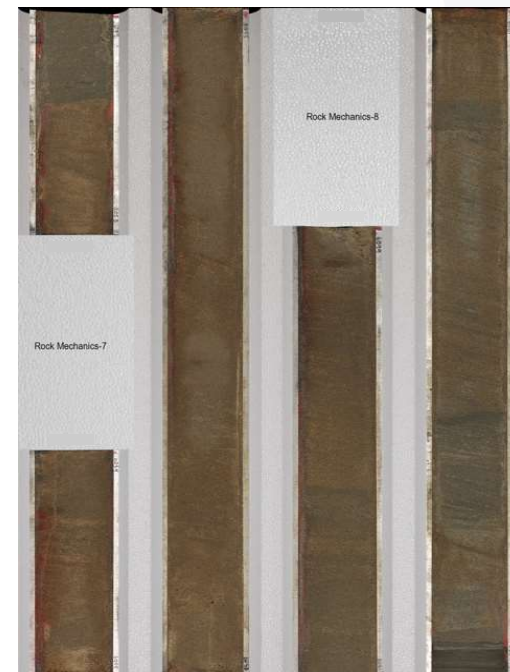
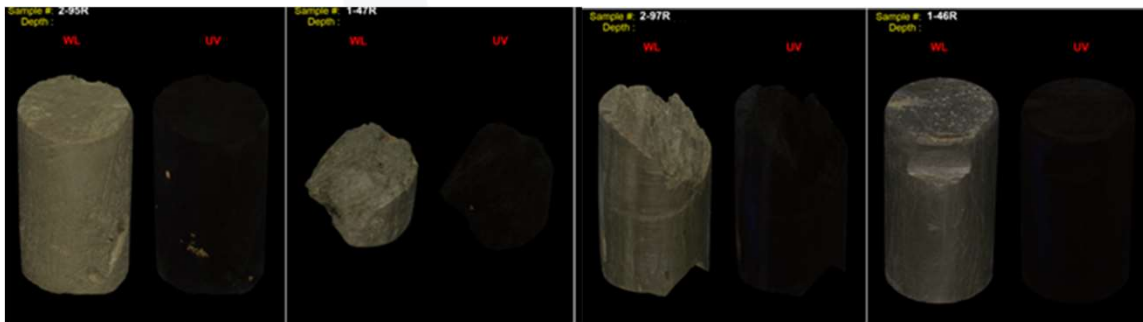


All objectives, Locations, Participants, Approach, Scope, Community Benefits, etc. are proposed.

Project Overview: Test Well

Completed in November 2022, acquired data confirming storage characterization used to define the parameters of the two submitted Class VI permits

- Test Well was permitted as a Class V well with the Louisiana Department of Natural Resources (LDNR)
- Step rate tests were performed successfully
- No faulting was seen in logs or core analyses
- Logs indicated excellent porosity and net sand thickness
- Full data analysis is expected to be completed by Q3 2023

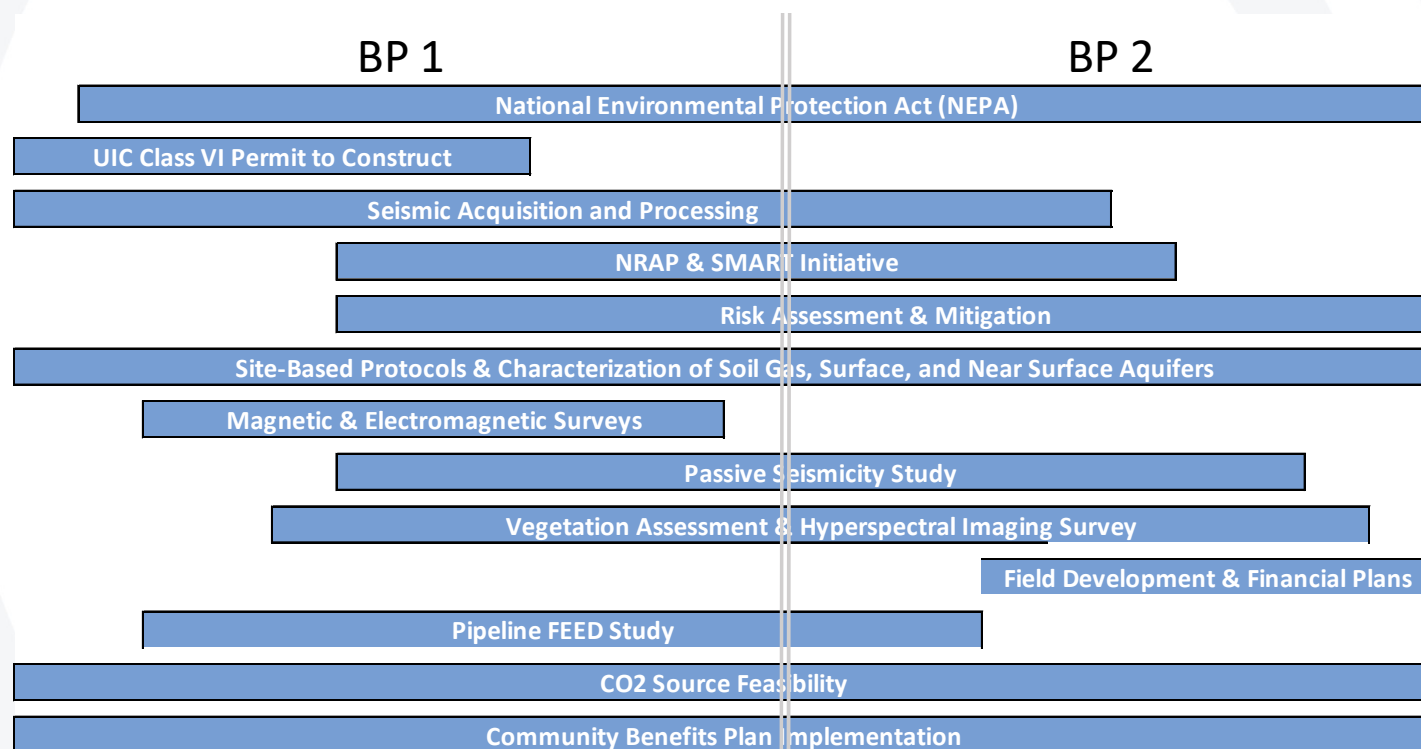


All objectives, Locations, Participants, Approach, Scope, Community Benefits, etc. are proposed.

Phase III Funding Goals

- Complete additional characterization to support field development
- Acquire baseline data for monitoring programs
- Conduct a Pipeline FEED Study
- Complete the field development, business, and financial plans
- Complete the NEPA process for applicable components of the hub
- Complete and implement the Community Benefits Plan for the hub

Phase III Funding Goals



All objectives, Locations, Participants, Approach, Scope, Community Benefits, etc. are proposed.

Community Benefits Plan

- **Objective**

- Implement the project in accordance with the Diversity, Equity, Inclusion, and Accessibility Plan, the Justice40 Plan, the Community Engagement Plan, and Quality Jobs Plan

- **Topline Goals**

- Create a pipeline for students at HBCUs to enter the carbon management industry
- Increase collaboration, inclusion, and contracting with underrepresented groups
- Create a certification program for carbon capture and storage skills
- Expand relationships and enhance programs at local community colleges, HBCUs, and MSIs
- Create an outreach program to nearby high schools
- Host public forums, panel discussions, and townhall meetings to engage with the community



Thank you.



All objectives, Locations, Participants, Approach, Scope, Community Benefits, etc. are proposed.