DGC BEULAH BROOM CREEK STORAGE FACILITY #1



Localized Passive Seismicity Monitoring

October 2026

Classified as Microsoft Confidential

OVERVIEW

- Purpose
  - Per the North Dakota Department of Mineral Resources (DMR), it is the regulatory intent that all operational carbon dioxide storage facilities have localized passive seismicity monitoring in place to monitor for any induced seismicity from injection.
  - A grace period of within 5 years of the date of first injection was given for installation and activation.
- Seismic Stations
  - Four seismometer stations will be installed within the storage facility permit area in Mercer County, ND (Figure 1) to be located on lands owned by The Coteau Properties Company and Basin Electric Power Coop.
  - The data from these stations will be used to monitor seismicity at this CO_2 storage facility site.
  - The footprint for each station is ~3 m x 3 m

PROPOSED ARRAY LOCATIONS

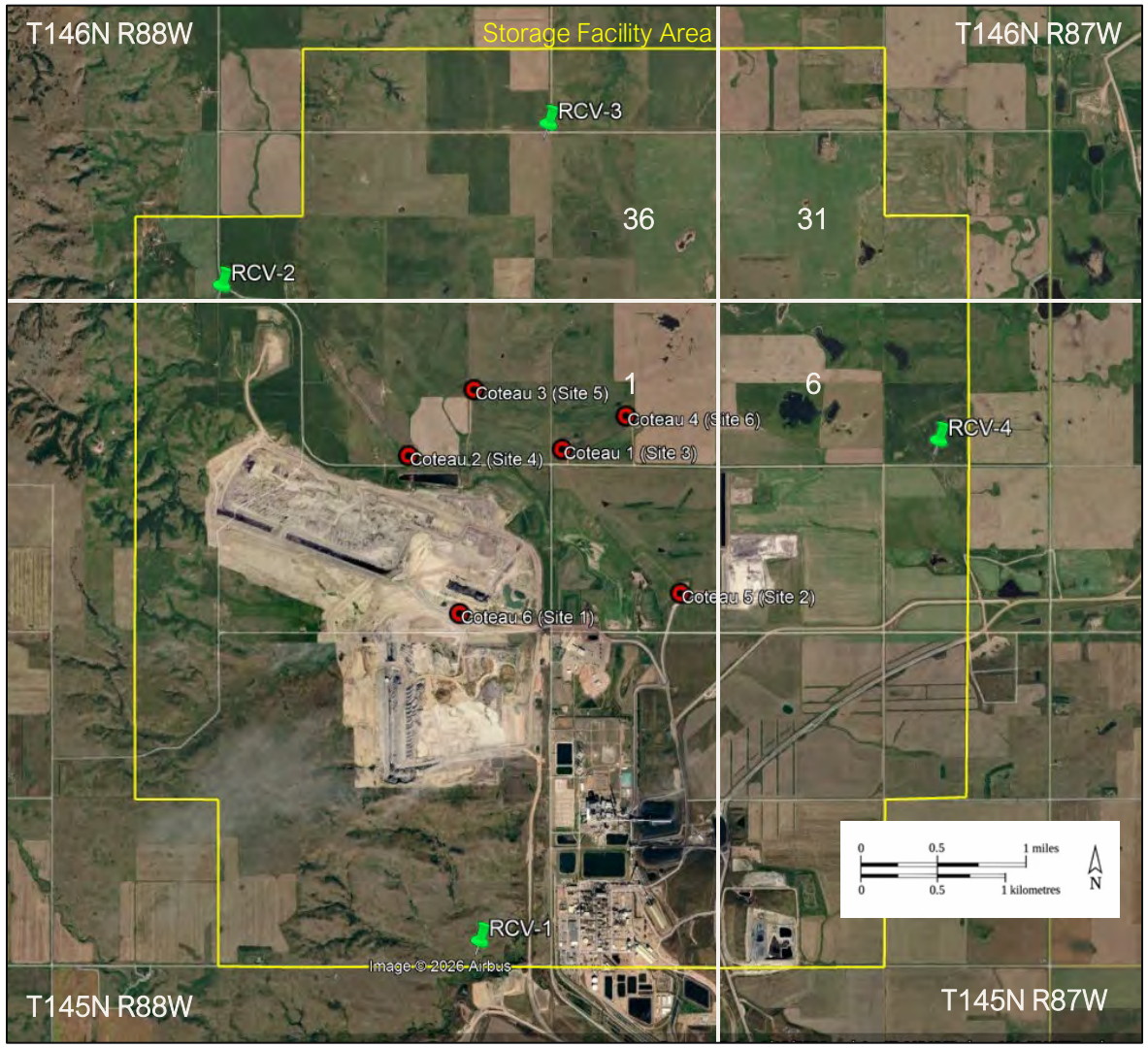


Figure 1. Full Station Design Schematic

Table 1. Station Location Information

Station Name	Latitude	Longitude	Location	Landowner	Depth
RCV-1	47.3579168	-101.8536918	T145N R88W Sec. 23 SESW	Basin Electric Power Coop	20”
RCV-2	47.4146831	-101.8867267	T145N R88W Sec. 4 NENE	Coteau Properties Co	20”
RCV-3	47.4286999	-101.8448885	T146N R88W Sec. 35 NENE	Coteau Properties Co	20”
RCV-4	47.4012658	-101.7949589	T145N R87W Sec. 5 SWSE	Coteau Properties Co	20”

Proposed Seismometer Station
CO_2 Injection Well
Storage Facility Permit Area

STATION DESIGN

- Two holes per location are to be dug using an auger or other available tool (Figure 1).
  - ~50 cm deep and ~25 cm wide. The distance from one hole to the other will be ~2m.
- A trench for the PMA flexible conduit that will protect the sensor cable will need to be made (Figure 3).
- The post will need to be cemented for permanent installations (2 bags of cement typically used).

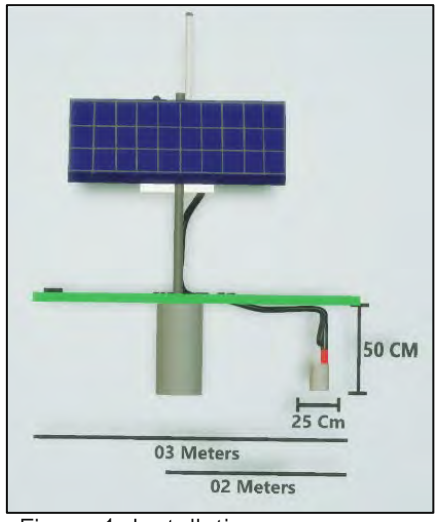


Figure 1. Installation


Figure 2. Typical Installation at Surface

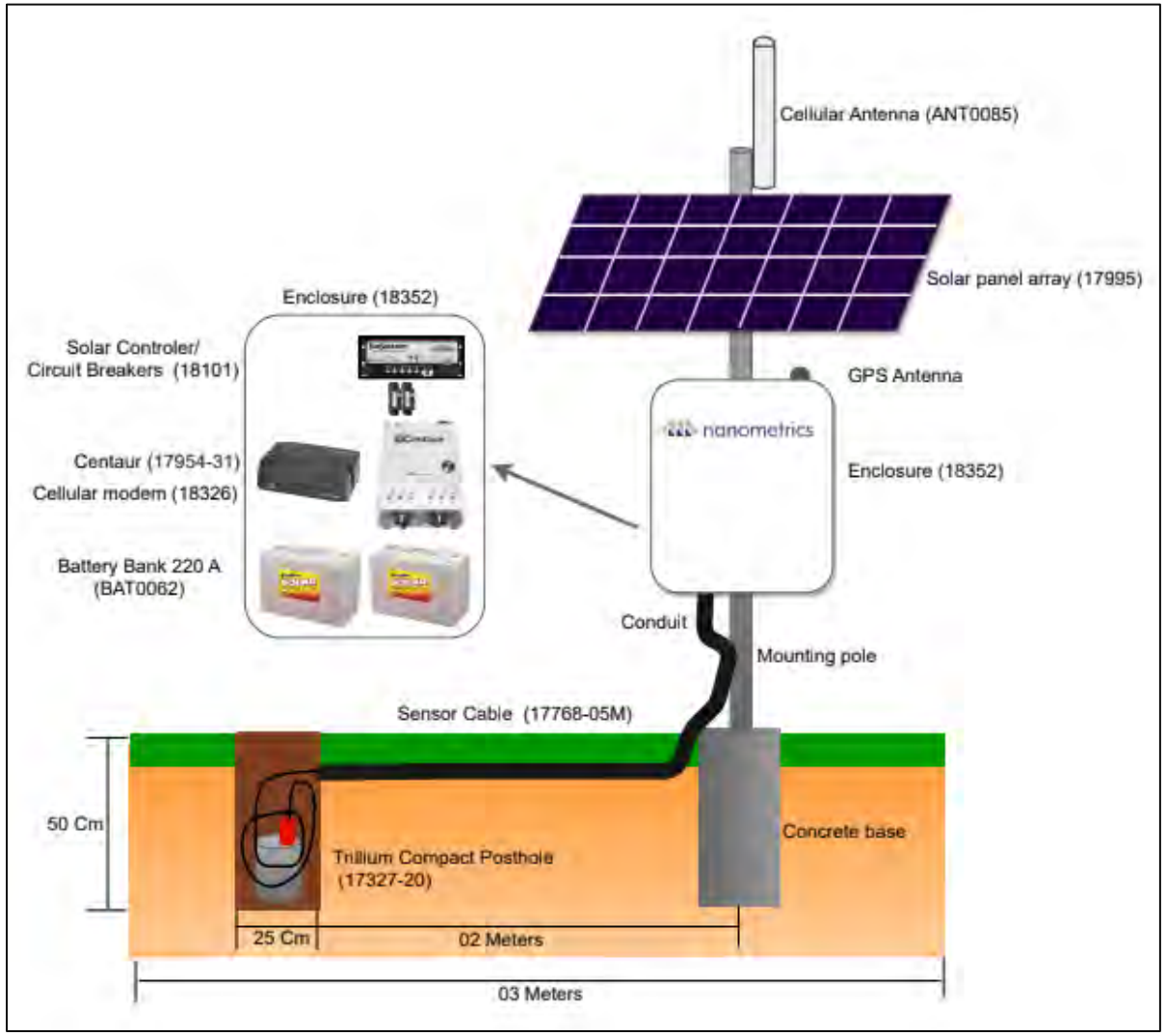


Figure 3. Full Station Design Schematic