

# Unlocking the data vault: Accelerating delivery and increasing accessibility of data and drill core collections

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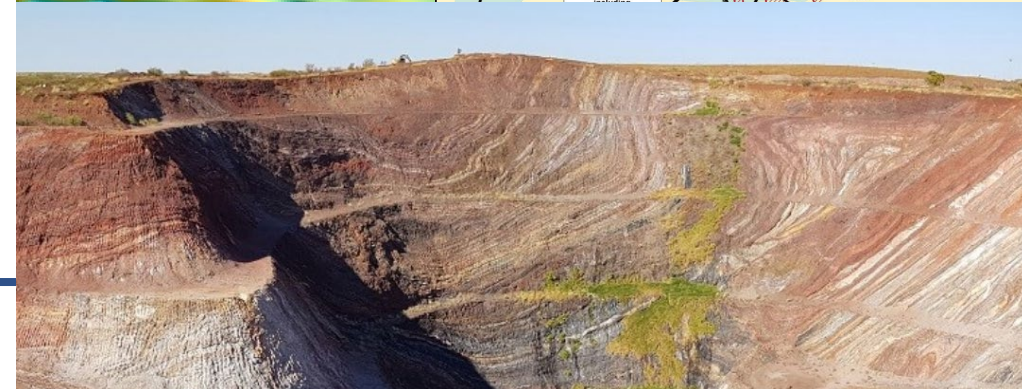
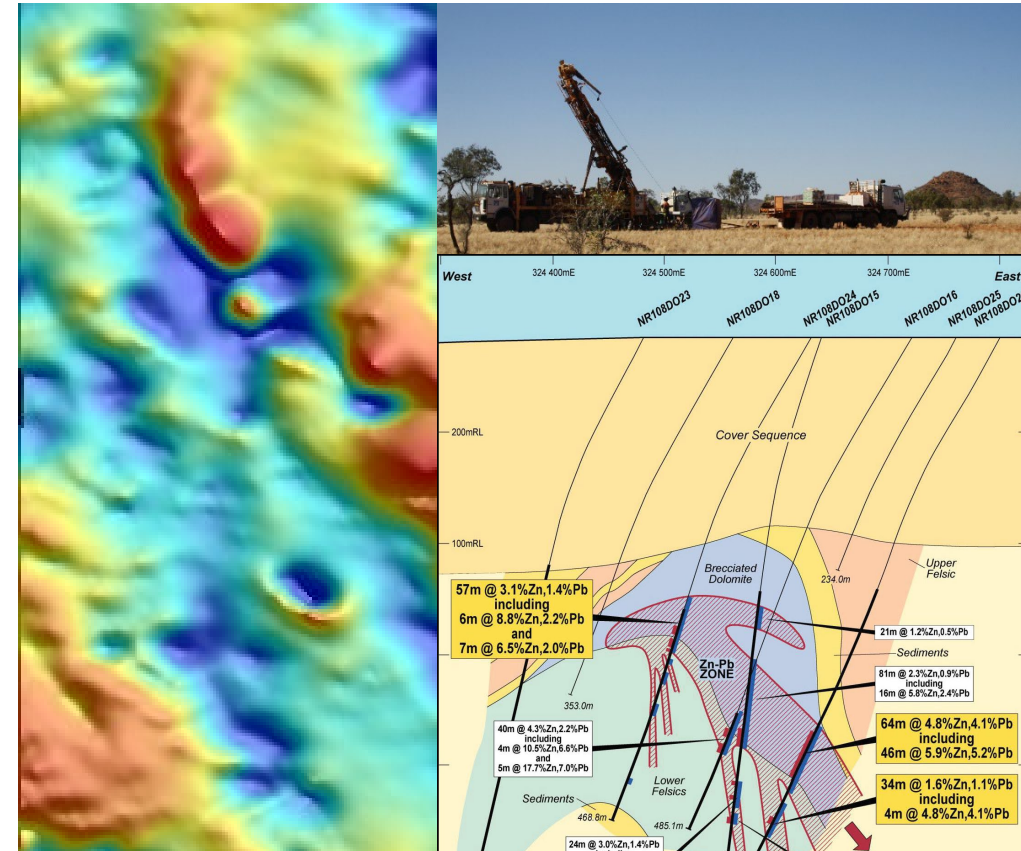
# Annual ongoing \$9.5M *Resourcing the Territory* program

## **Enabling data-driven discovery**

- Delivering FAIR data: findable, accessible, interoperable and reusable
- Providing easy access to high-quality geoscience data to underpin decision making
- Ensuring all open-file industry data is discoverable, usable and can be integrated within explorers' own systems

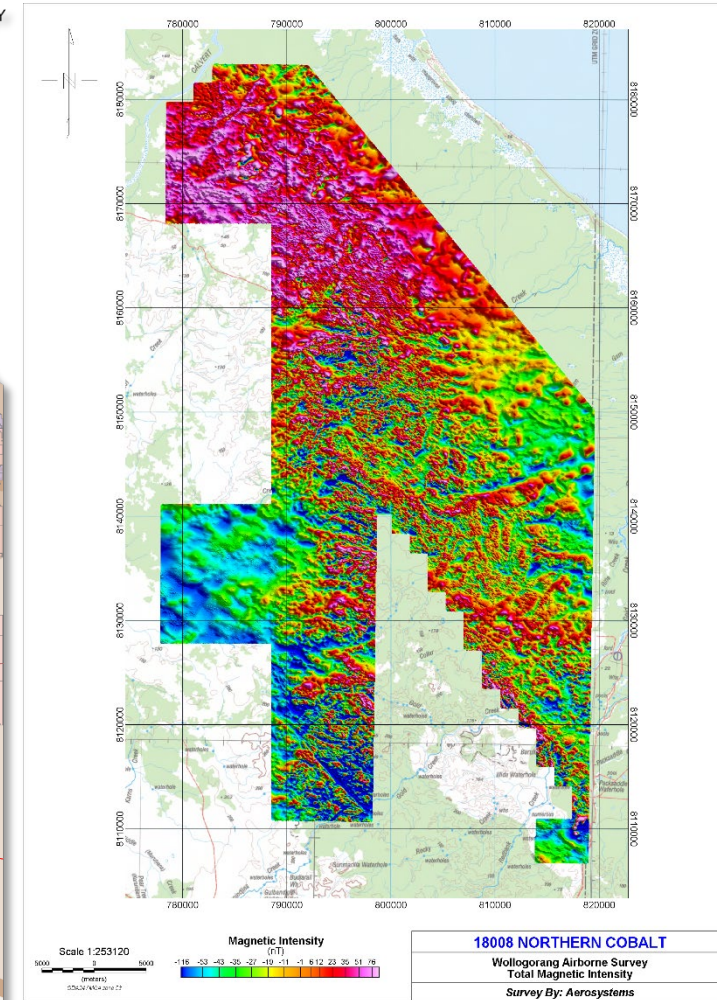
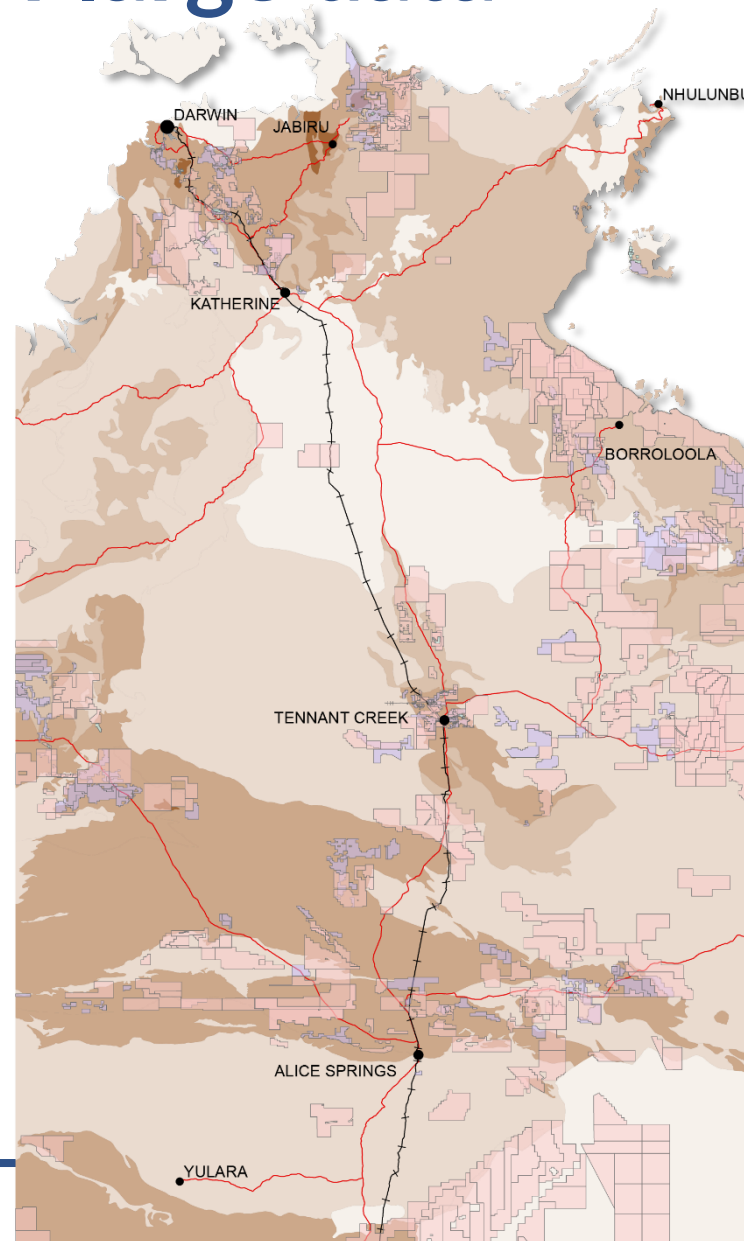
## **2026 Activities and Outputs**

- Make all open-file minerals exploration geophysical datasets, regardless of size, downloadable via online systems
- Release all legacy open-file drilling and geochemistry for the Pine Creek region
- Accelerating delivery of a Territory-wide digital dataset of every industry-reported drillhole and geochemical assay
- Upgrade *STRIKE* to enable individual geophysical surveys to be viewed and downloaded through the web-mapping platform (see Close *et al* 2026, Rogers 2026).



# Increasing accessibility of large data

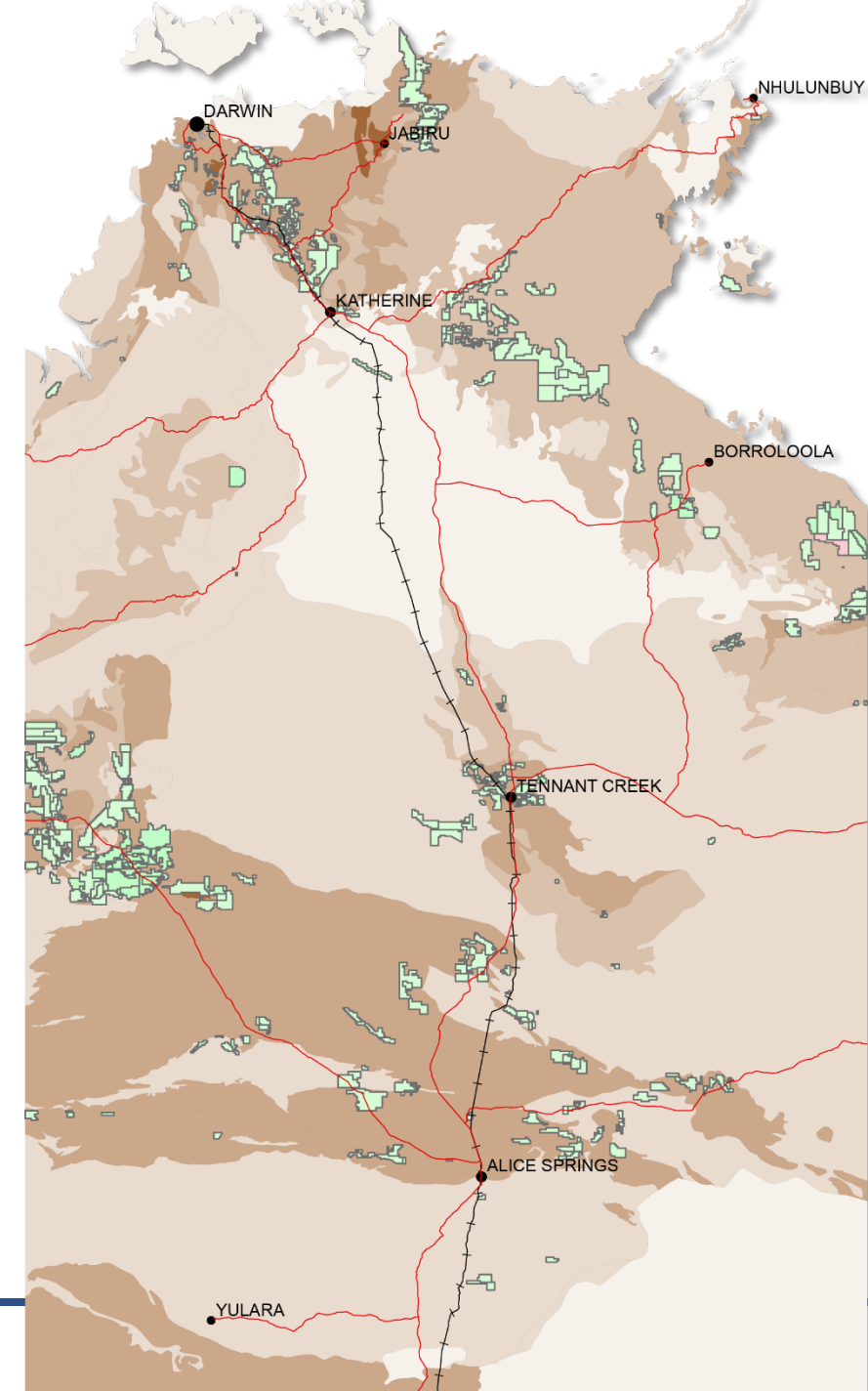
- Datasets >1 GB from minerals exploration reports are now delivered directly through GEMIS (<https://geoscience.nt.gov.au/gemis>)
- Eliminating manual requests and physical transfers and time delays
- All open file geophysical datasets from minerals exploration reports available for download from online systems
- An additional ~3.08TB of geophysical and remote sensed data now downloadable



CR2018-0190AC

# Open filing of 2018 and 2019 minerals company reports

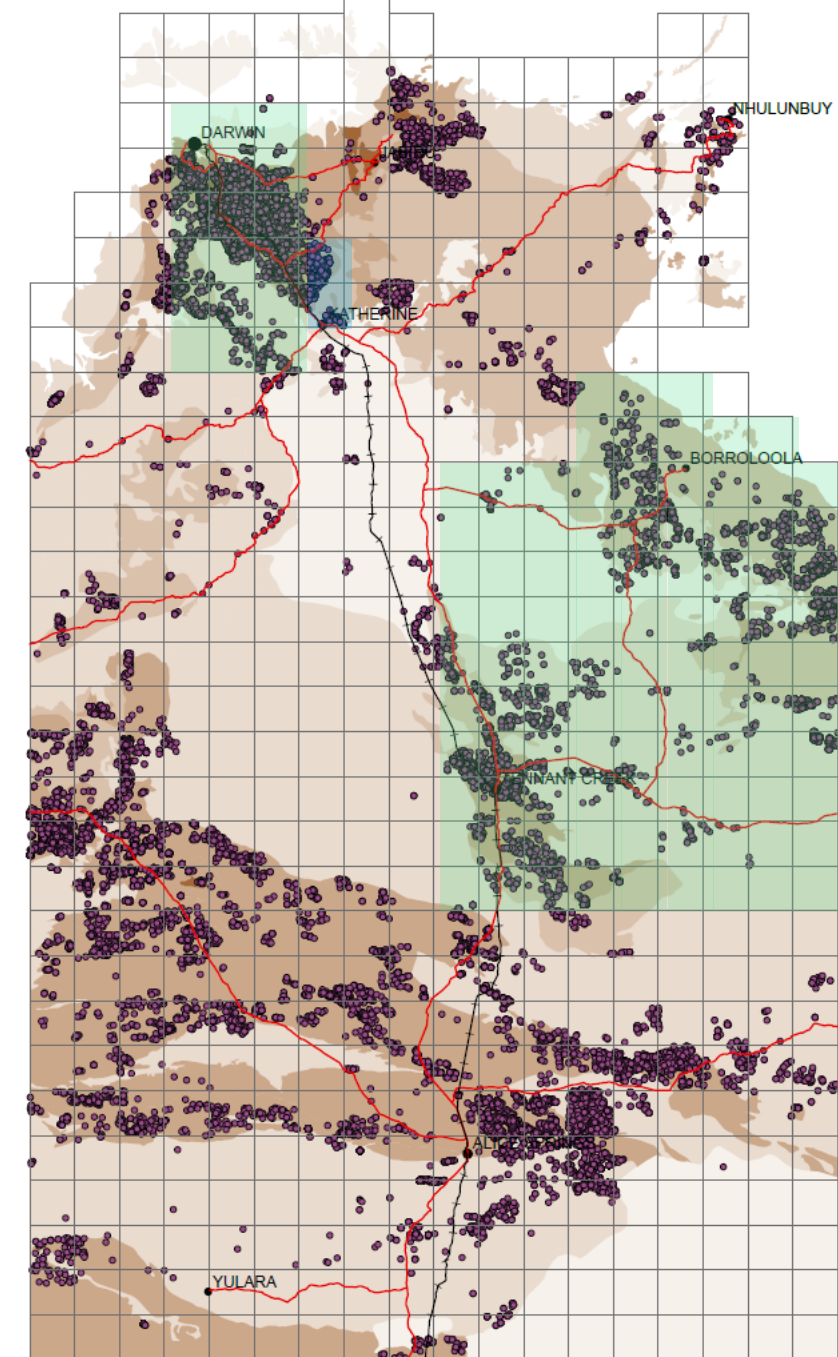
- NTGS released >1,240 mineral reports
  - 2018 and 2019 reports open filed under Regulation 125(3)(a)(ii) of the *Mineral Titles Act 2010*
  - Tenure relinquishments
  - Reports available for download via *GEMIS* and discoverable through STRIKE
- Data includes:
  - Geophysics
    - >151,000 line-km
    - >20,000 ground stations
  - ~140,000 assay results
  - Data available downloadable via *STRIKE* and DIP 001



# Legacy drilling and geochemistry data capture program

- Project commenced in 2017 to capture legacy drilling and geochemistry from pre-2016 open-file reports
- Data is often previously locked in PDFs or scans
- Project is progressing region by region, with work completed in:
  - McArthur Basin,
  - Tennant Creek and Barkly regions
  - Current focus is Pine Creek
- Spatially located datasets are available via *STRIKE* and DIP 001
- Enabling industry to undertake modern analytics (including ML) to underpin decisions making

Geochemistry April 2026

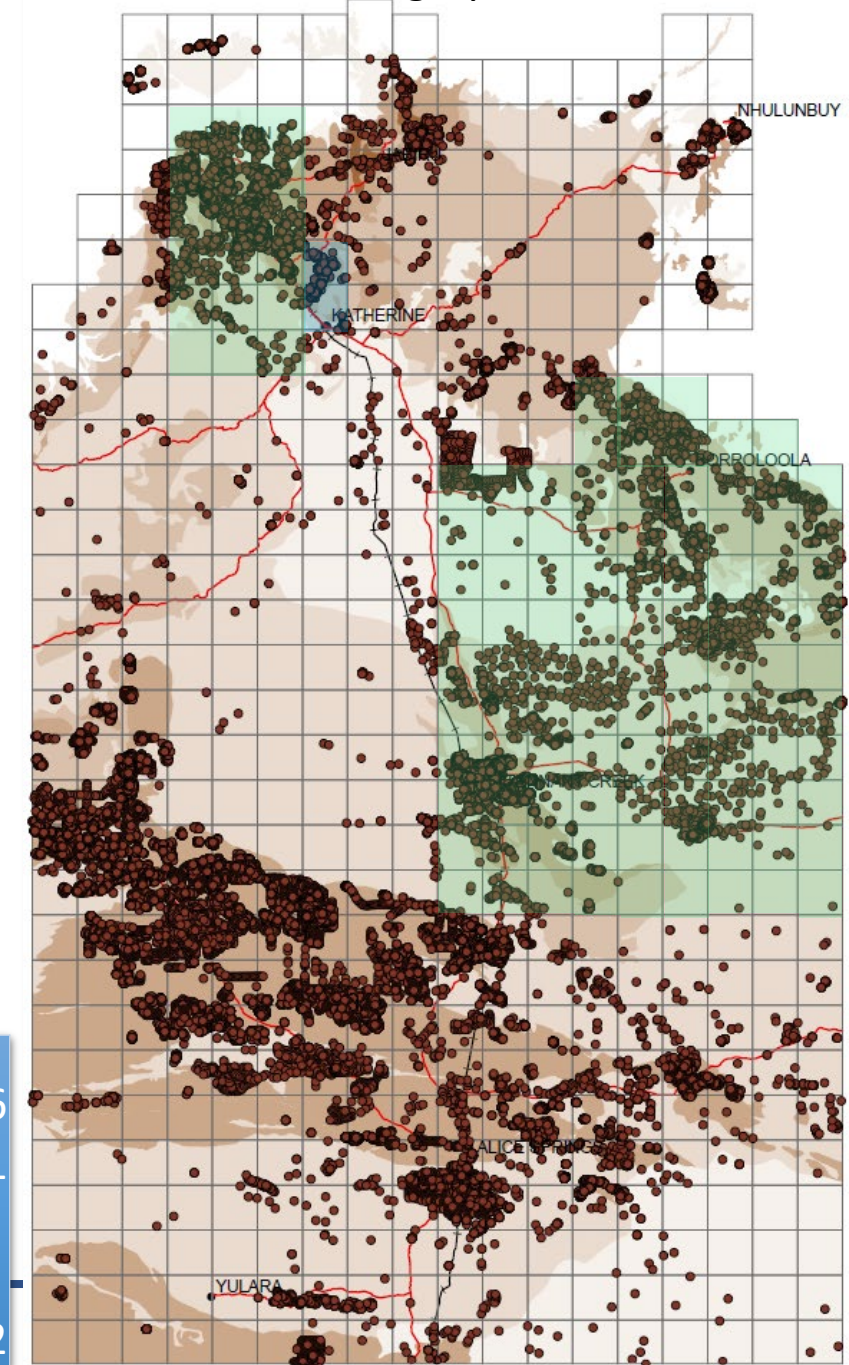


# Legacy drilling and geochemistry data capture program

- Work is underway in Pine Creek Orogen with drilling and geochemistry data from McKinlay River and Pine Creek 100k mapsheets available in the April 2026 release of DIP 001
- Pine Creek alone added >884,000 assay records and >12,900 drillholes.
- Capture of Ranford Hill and Katherine 100k mapsheets is currently underway and will be published in the September 2026 release of DIP 001
- Completion of Territory-wide capture is targeted for 2030.

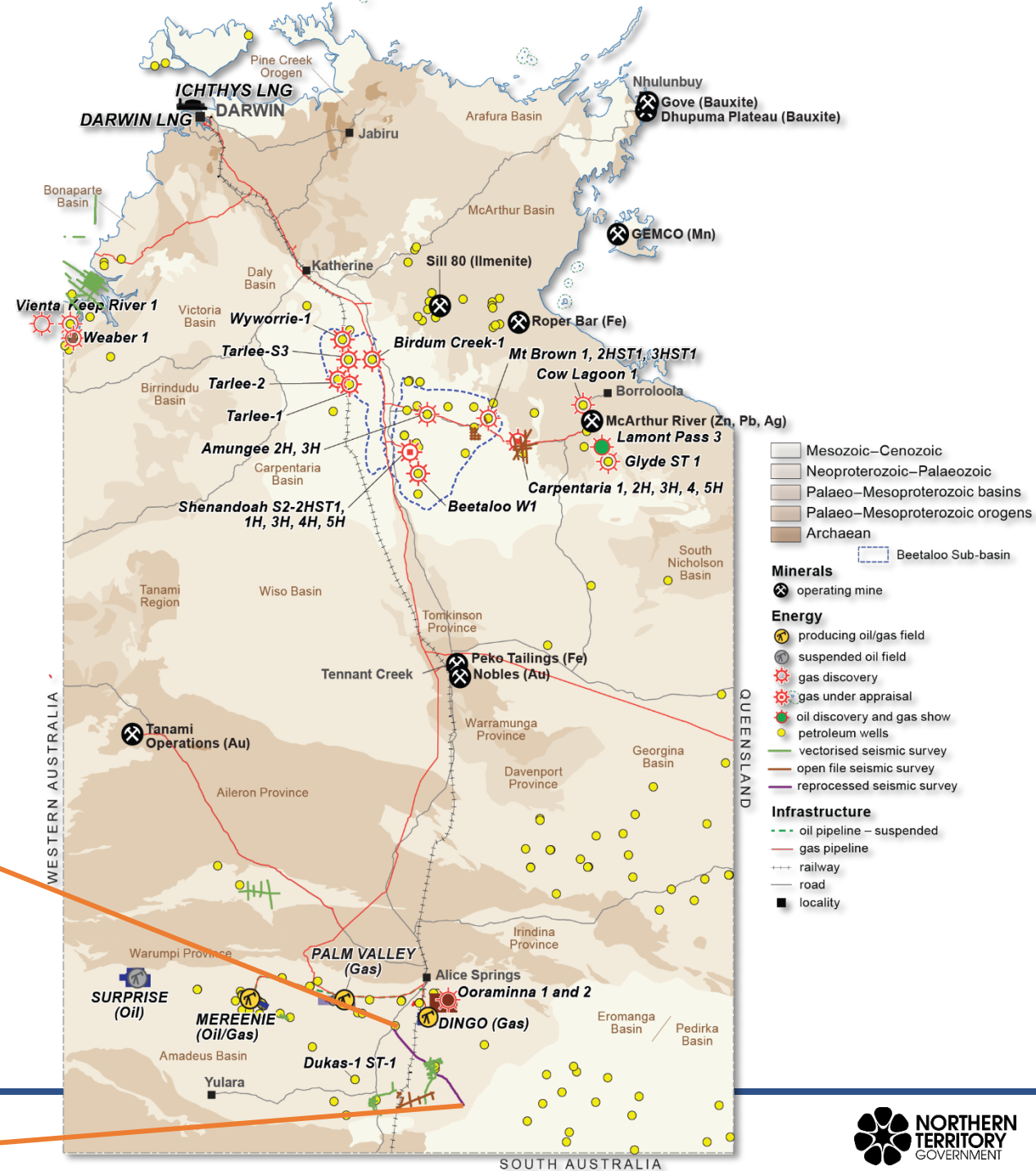
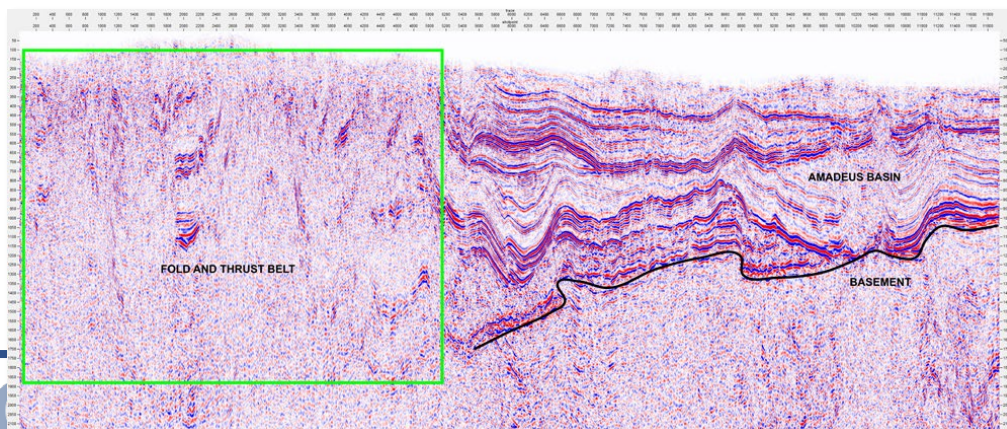
Data Type	March 2017	April 2026
Drill hole collars	120,228	326,571
Assay results (surface and downhole)	499,216	3,181,992

Drilling April 2026



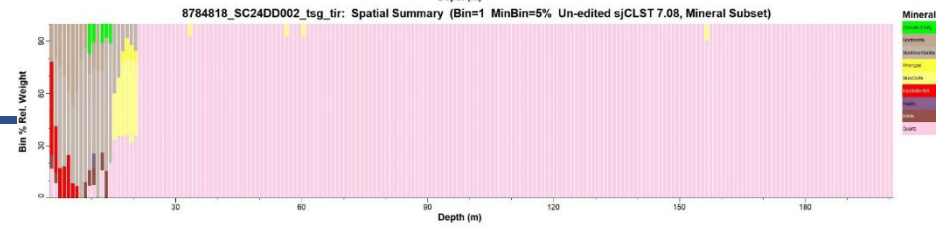
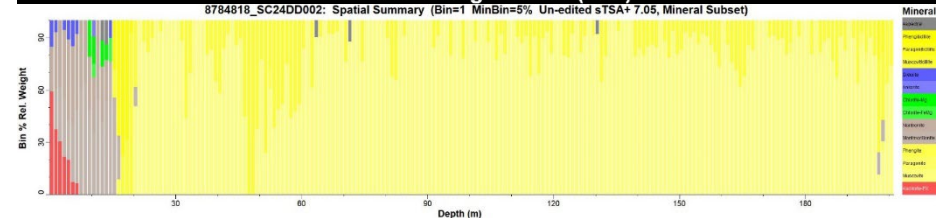
# Petroleum data

- Converted 1,133 km of 2D seismic lines to vector format across the Amadeus, Ngalia, and Bonaparte basins.
- Open filing
- Reprocessing of the Santos 2D seismic line AMSAN13B-06 Amadeus Basin to improve resolution in structurally complex areas.



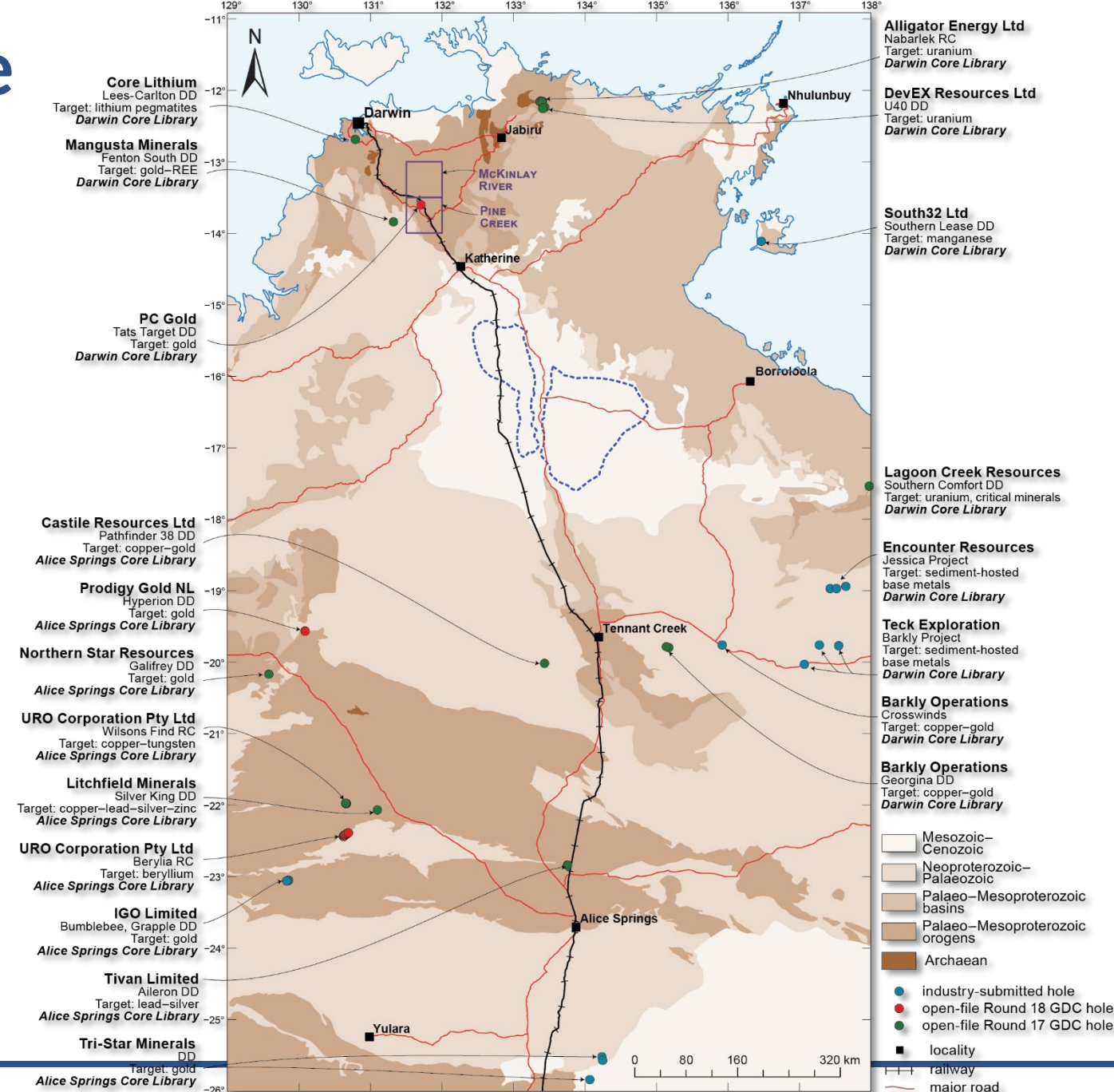
# Core facilities and drill core collection

- Located in Darwin and Alice Springs, collections searchable via COREDAT layer in *STRIKE*
- Viewing, non-destructive analysis, and sub-sampling for destructive analysis
- Data and associated metadata must be provided to NTGS within 6 months of sampling and will be made available via core sampling reports
- Core imagery and HyLogger data available for some of the collection, can be accessed remotely via *STRIKE*, to target sampling



# Core facilities and drill core collection

- ~15,100 m added to the NTGS core collection in 2025/26
  - ~8,900 m submitted by industry plus
  - ~6,200 m via co-funded *Geophysics and Drilling Collaborations* program
- Pine Creek Orogen, East Tennant, Aileron and multiple sedimentary basins;
- Drilled to target gold, copper, lithium, uranium, and base metals, critical minerals.



# Future work programs

NTGS is accelerating legacy data capture, delivering large digital datasets directly to users and enhancing drill-core accessibility, to realise the full value of NTGS's geoscience data holdings:

- Accelerating capture of all legacy drilling and geochemistry data, to complete capture by 2030.
- Completed making available for download all geophysical datasets associated with open file minerals exploration reports
- Increasing the availability of large data associated with petroleum reports available for direct download