Access Web Map

Minnesota’s Drill Core Library

Bedrock drill core and data from drilling throughout Minnesota

Overview

The Minnesota Department of Natural Resources, Lands and Minerals Division, maintains a Drill Core Library in Hibbing, Minnesota. It serves as the State of Minnesota’s repository for archiving bedrock and earth materials core samples collected during mineral exploration, engineering, and geoscience research programs across the state. The library attracts a worldwide audience of researchers, mineral explorers, and engineers who reuse existing core samples to develop new ideas about Minnesota’s mineral resources and geology.

The three buildings that comprise the drill core library house more than 3 million linear feet of drill core samples archived from approximately

- 7,000 mineral exploration cores,
- 1,300 roadway and bridge foundation cores, and
- 700 geothermal samples.

Library Details

Learn more about the library

- Scheduling your visit
- Selecting drill core
- Viewing drill core
- Sampling drill core
- Delivering drill core
- Policies and Purpose

Map

View an interactive map displaying the geographic distribution of core and other samples stored at the drill core library. The web map also includes GIS layers of all state minerals focus areas and parks.

http://www.dnr.state.mn.us/lands_minerals/dc_library.html
Select Map Layers
Toggle on/off GIS layers to view in map

Drill Holes (DNR)
State Mineral Leases (DNR)
Surficial Geology (MGS)

Bedrock Geology (MGS)
Bedrock Outcrops & Depth to Bedrock Model (MGS)
Aeromagnetic Map (MGS)

http://www.dnr.state.mn.us/lands_minerals/dc_library.html
Select Map Layers
Set a layers transparency

0% Opaque

75% Opaque: See items below easier
Change Basemap – Select from 10 different basemaps
Search for a geographic location

Use the search bar to zoom to a city or county
Display and ID drill holes, geology, and state mineral leases

Active State Leases
Terminated State Leases

Also view MGS Statewide Surficial & Bedrock Geology, Outcrops, Depth to Bedrock, and Aeromagnetic Layers
ID most map features by clicking on the map

Surficial Geology

State Mineral Leases

Drill Holes (DNR)

Bedrock Geology

Depth to Bedrock Model (MGS)

Zoomed in look at ID window

http://www.dnr.state.mn.us/lands_minerals/dc_library.html
1. Select the ‘up arrow symbol’ to bring out the tabular records of any visible map layer. Shown here are:
   - Drill holes
   - Active state leases
   - Terminated state leases

2. Select ‘Options’ then check on ‘Filter by Map Extent’ (not shown) to limit your records to what’s on your map screen.
   - This graphic is showing 14 drill hole records in this area.
   - There is also tabular information that you can turn on for active and terminated state leases.
Learn more by clicking on the ‘i’ icon

- Instructions
- Metadata
- Links to data

http://www.dnr.state.mn.us/lands_minerals/dc_library.html
Query Tool:

- Zoom to certain selected data
  - Public Land Survey Location
  - Drill hole name
  - Drill holes by company or agency
  - Active state minerals leases by company

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How it works?

- **Drill holes by company or agency query**
  - Select from Drop-Down List (FMC)
  - Click Apply
    - Application zooms to drill hole locations