

# 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, maintaina a Drill Core Library in Hibbing, Minnesota. It serves as the State of Minnesota's repository for archiving bedrock and earthen material core samples collected during minerals exploration, engineering, and geoscience research programs across the state. The library attracts a world-wide audience of researchers, mineral explorers, and engineers who reuse existing core samples to develop new ideas about Minnesota's mineral response.

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

- 7,000 mineral exploration cores,
- 1,500 roadway and bridge foundation cores, and
- 500 cores collected during scientific.



state minerals leases (active and past









## Select Map Layers

Toggle on/off GIS layers to view in map

Minnesota's Drill Core Library		
		+
Layer List		A
Operational Layers		Ο
▶ ✓ Drill Core Library Core Samples	٣	
All State Minerals Leases	v	
▶  Surficial Geology of Minnesota	Ŧ	
Bedrock Geology of Minnesota	Ŧ	
Bedrock Outcrops	٣	
▶	٣	
Aeromagnetic Map of Minnesota	٣	
▶ □ Hillshade	¥	
▶ □ USA Topo Maps	Ŧ	

MNDNR



Society for Mining, Metallurgy & Exploration





## Select Map Layers

Set a layers transparency









#### 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





ID most map features by clicking on the map



#### Drill Holes (DNR)



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Core and Samples Stored in DNR Drill Core Library: Exploration		
DNR Inventory Number	14433	
General Type	Exploration	
Drill Hole Name (DDH)	SS-6	
Date Drilled	February 1, 1989	
County	KOOCHICHING	
Drill Method	CORE	
Company or Agency	NORMIN MINING CO	
Township	70	
Range	24	
Section	1	
Forty	NWSE 🖕	
Zoom to		

Zoomed in look at ID window







I. 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

#### View map features in a tabular format



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









### **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









How it works?

- Drill holes by company or agency query
  - Select from Drop-Down List (FMC)
  - Click Apply

MNDNF

• Application zooms to drill hole locations





