Overview Map for Twin Metals Exploration Plan, page 1

DNR Submittal Plan Date: 10/18/2013

Purpose: The locations of proposed exploration activities by state mineral lessees in a standard format and legend are shown. Map by DNR, Lands and Minerals Division. November 2013. Director, Jess Richards.

Date Proposal Submitted to DNR: October 18, 2013
Lessees: Twin Metals Minnesota LLC
Lessee Contact Person: Kevin Boerst
State Mineral Lease Number: MM-9764-N
Location on Public Land Survey: T61N-R11W, Section 4, Lake County
Type of Activity: Exploratory boring
Time period for activity: Begin November 7, 2013 and continue until completed within 180 days
New Access Trail Location: None. The existing access trail will be used.
Narrative: The explorer has proposed to drill one exploratory boring along an existing access trail on a state mineral lease with state surface ownership. This activity will have a temporary impact on less than 1 acre.

Overview Map for Twin Metals Exploration Plan, page 1

Map Symbols

- **Exploration Plan: Proposed Drill Hole**
- **State Nonferrous Metallic Minerals Leases at this map extent**
  - Active Lease for this Exploration Plan: Twin Metals - Labeled by Mineral Lease# (n=1)
  - Active Leases - Labeled by Mineral Lease#
- **Exclusionary Features at this map extent**
  - Scientific Natural Area
  - State BWCAW minerals mgmt. corridor
  - The beds of lakes in the DNR's Public Waters Inventory
  - The beds of major or significant rivers in DNR's Public Waters Inventory
- **Special Features at this map extent**
  - Designated Trout Streams
- **Not shown are Natural Heritage Features and Historic or Archaeologic Sites due to being deemed non-public data.**

Other symbols

- **Township and Range Boundaries**
- **Section Boundaries**
- **Other Streams, Creeks, & Small Lakes**
- **State Highway**
- **County Roads**
- **Other Roads (Township, Muni, Forest)**
- **Civil Division Boundaries**
- **Bear Island State Forest**
- **Superior National Forest**

Scale 1:63,360

See page 2 for detailed map
Detailed Map for Twin Metals Exploration Plan, page 2
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Overview Map for Twin Metals Exploration Plan, page 2

Map Symbols
- Exploration Plan: Proposed Drill Hole

State Nonferrous Metallic Minerals Leases at this map extent
- Active Lease for this Exploration Plan: Twin Metals - Labeled by Mineral Lease# (n=1)
- Active Leases - Labeled by Mineral Lease#
Basemap is a 1:24,000 USGS Topographic Quad and LiDAR Hillshade

0 0.25 0.5 1 Miles
Scale 1:20,000

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