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CITIZEN PETITION FOR ENVIRONMENTAL ASSESSMENT WORKSHEET
Submitted September 25, 2012

RE: Minnesota Department of Natural Resources October 2012 Auction of Mineral Leases

Petition for Environmental Assessment Worksheet

The undersigned more than 140 citizens, all of whom live in and/or own property in the State of Minnesota and most of whom reside in Minnesota's Arrowhead region, request that the Minnesota Department of Natural Resources ("MDNR") prepare an Environmental Assessment Worksheet ("EAW") prior to the MDNR's proposed October 2012 auction of state mineral leases. The undersigned also request an immediate postponement of the Oct. lease sale until the issues raised in this petition are addressed and that a timely citizen hearing be conducted.

This Petition narrative, Attachments 1 through Attachment 15 that are supplied with the Petition and the signatures of more than 140 Minnesota citizens demonstrate the appropriateness of requiring an EAW under Minnesota Rules 4410.1100, which provides that citizens can request the preparation of an EAW by providing evidence that because of the nature or location of the proposed project the project may have the potential for significant environmental effects.

Petitioners' Representative

The representative of the petitioners is Matthew Tyler, a consulting forester with six years of field experience in the Finland area, with an address of 6722 Park Hill Road in Finland, Minnesota 55603-4036, an email address of tyle0045@gmail.com and a phone number at 218-353-7374.

Project Description

The Minnesota Department of Natural Resources proposes its 33rd auction of State mineral leases for October 2012, as reflected in the MDNR Notice of Intent to Hold State Metallic Minerals Lease Sale, copied as Attachment 1. Leases are for 50-year term and include rights to explore and mine. The nature of the activities that would be allowed by these leases -- mineral exploration as well as mining -- have the potential for significant adverse environmental effects on natural resources. An EAW should be prepared to analyze, prevent and minimize those potential impacts.

The proposed October 2012 mineral lease auction areas cover portions of Aitkin, Lake and Saint Louis Counties, as roughly mapped by the MDNR in Attachment 2. More specific legal descriptions of the proposed mineral leases were released to public on September 17, 2012 (Attachments 11-13). Mineral exploration as well as mining in the areas up for auction may have

the potential to impact groundwater near existing drinking water wells, popular recreational trails, and sensitive natural resources, such as designated trout streams, wetlands, and areas of high biological diversity. Even before drilling begins, the auction of mineral leases may create adverse socioeconomic effects on property rights and property values due to the threat of eminent domain of private property to allow mining companies to gain access to subsurface minerals.

Potential Environmental and Water Resources Effects from the Project

The MDNR's October 2012 auction sites contain important and sensitive natural features and valuable ecological resources, as reflected in Attachment 3, Attachment 4, Attachment 6, Attachment 7 and Attachment 8 prepared by the petitioners' representative from the MDNR auction area maps and various state and county layers of GIS information. These auction sites also impinge on homes and private drinking water wells as reflected in Attachment 3, Attachment 4, Attachment 6 and Attachment 7. Some of the potential resources impacted by the auction sites are identified below:

Area West of Tettegouche State Park (T56N R8W - Attachment 3 Map)

- Approximately 6.6 miles of the C.J. Ramstad and Red Dot/Moosewalk snowmobile trails
- About 6.7 miles of designated trout streams (East Branch Beaver River and Little Thirty-Nine Creek).
- About 3.2 miles of tributaries to designated trout streams (East Branch Beaver River and Little Thirty-Nine Creek).
- At least 300 acres of wetlands.¹
- Four parcels of property owned by private individuals either completely or partially surrounded by proposed mineral leases.
- At least 116 private homes within 3 miles of the proposed mineral leases.
- One inner wellhead management zone (Lax Lake Resort) within 2 miles of the leases.
- More than 37 residential drinking water wells within 3 miles of the proposed leases, with at least 1 residential drinking water well within 3/4 of a mile of the proposed leases².

Area South of Hoyt Lakes (T56-58N R14W; T58N R15W - Attachment 4, Attachment 5 and Attachment 6 Maps)

- About 220 parcels owned by private individuals, totaling approximately 1,179 acres.
- About 1103 acres within the Hoyt Lakes municipal area, including at least 109 homes.
- At least 6 drinking water wells within the lease area, with at least 22 additional drinking water wells within 1/2 mile of the leases.
- Approximately 3.6 miles of snowmobile trails (East Range Trails - 2.5 mi; Pequaywan/Brimson Trails - 1.1 mi)
- Approximately 23.7 miles of rivers and streams, including 2.8 miles of the Partridge River and 6.9 miles of the St. Louis River, an Aquatic Resource of National Importance.
- Approximately 4,499 acres of wetlands.
- Approximately 1,592 acres of MCBS sites of high biological diversity (Allen Junction

¹ Estimate of wetlands on MN DNR lands only, based on MN DNR FIM data. There are likely more wetlands on county, federal, and private lands. See Attachment 10 for analysis methodology.

² Based on MN Well Index GIS, USE = DO. There are may be older wells in this area that are not in the index.

Fen - 251 ac; Hush Lake Peatlands - 1,155 ac; N Branch Whiteface River - 186 ac)

- Approximately 1,700 acres of Federal Land within the Superior National Forest, which may be subject to additional protection of the land surface under the Weeks Act³

Aitkin County Area (T46N R22-23W; T47N R23W - Attachment 7 and Attachment 8 Maps)

- More than 2,000 acres of privately owned lands⁴.
- At least 50 residential drinking water wells⁵.
- At least 3 inner wellhead management zones within 1/2 mile of the proposed leases. (Jack's Shack, Jackson's Hole, Rice Lake National Wildlife Refuge Contact Station)
- Approximately 14.7 miles of snowmobile trails (Tamarack Trail - 10.9 mi; Palisade Trail - 0.4 mi; Moosehorn Trail - 2.6 mi; Kettle River Trail - 0.8 mi).
- About 560 acres within the Rice Lake National Wildlife Refuge.
- Approximately 3,926 acres of preliminary MCBS sites of high biological diversity (Rice Lake Uplands, Lee 35).
- Approximately 11,175 acres of wetlands⁶.

State mineral leases will last for 50 years and include the rights to prospect for minerals and to mine. Significant adverse environmental impacts that may result from the auction of state mineral rights as proposed by this project, even prior to development of any mining project include:

- Contamination of drinking water wells with brines from unsealed deep exploration borings.
- Impairment of trout streams with sediment.
- Contamination of wetlands, rivers, trout and other streams, and riparian areas with sulfates and toxic metals from exploration sumps.
- Loss of access to trout streams, snowmobile trails, and hunting areas due to mineral exploration.
- Impairment of wetlands and other sensitive ecological land types from drilling and road construction activities.
- Changes in wetland water levels due to drainage into unsealed deep exploration borings.
- Degradation of areas of high biological diversity, including introduction of invasive species, from drilling and road construction activities.
- Loss of property rights and property values due to the threat of eminent domain posed by mineral leases under privately owned land.

Significant environmental impacts that may result from the auction of state mineral rights and the development of a sulfide-mining district include:

³ Based on analysis of St. Louis County Parcel Database GIS records.

⁴ See Attachment 8 map. While Aitkin County Parcel GIS layers were not freely available at the time of this filing, the extent of public and private lands in Aitkin County are available on the Aitkin County Website, http://gisweb.co.aitkin.mn.us/wf2_aitkinpublic/Default.aspx

⁵ Based on MN Well Index GIS, USE = DO. There are may be older wells in this area that are not in the index.

⁶ Based on National Wetland Inventory shapefiles obtained from MN DNR Data Deli.

- Toxic pollution of surface waters, streams and fishing lakes for centuries, impairing aquatic life and angling and increasing mercury contamination of remaining fish.
- Destruction and impairment of thousands of acres of wetlands.
- Contamination of groundwater, including drinking water in private wells, and wells, reservoirs and aquifers that provide municipal drinking water
- Degradation or destruction of areas of high biological diversity and impairment of habitat for species of concern, endangered and threatened species.

Additional Material Evidence of Potential for Significant Environmental Effects Due to Nature and Location of Project

Maps (Attachments 3 – Attachment 8) showing the unique and sensitive environmental features in the proposed project locations and the proximity to private property and drinking water wells are attached to this petition.

The potential for significant environmental effects due to the nature of minerals exploration was recently demonstrated by the decision of the United States Forest Service (“USFS”) to require an environmental impact statement (“EIS”) for 29 prospecting permits. The USFS required an EIS to consider alternatives to the 29 prospecting permits proposed in this project. In addition to evaluating alternatives to minimize impacts on natural resources, as a result of the EIS the USFS set conditions to protect sensitive ecological land types, natural stands of wild rice, streams, riparian areas and prevent contamination of drinking water wells with brines as a result of this environmental impact study. The Federal Hardrock Mineral Prospecting Permits Project Final Environmental Impact Statement Executive Summary May 2012, containing a link to the complete FEIS, and the Ecological Stipulations and Monitoring Requirements determined in the USFS Record of Decision are contained in Attachment 9.

The potential for significant environmental effects of sulfide mining are undisputed. The areas where the MDNR proposes to auction state mineral leases have not been evaluated through any environmental review and an EAW would not duplicate any other environmental analysis that has been performed.

MDNR Mineral Lease Auctions are Part of a Phased and Cumulative Project that Has Not Been Assessed for Environmental Impacts

The proposed project is the State’s 33rd sale of metallic minerals exploration and mining leases. The State could potentially place any or all of these acres of mineral leases up for auction. In providing Notice of the upcoming sale, the MDNR explained that there is increased interest being shown by industry in mining throughout Minnesota so that even lands that had been previously offered for lease and had had no takers were now being reoffered for metallic prospecting and exploration.

The State controls mineral leases below 13.5 million acres in Minnesota – nearly one fourth of the State. Selling mineral leases out from under private property in today’s rush to prospect for copper, nickel and gold could adversely effect environmental resources and the businesses that depend on Minnesota’s high quality of life and could put private property rights across the State at risk of devaluation and loss.

The State of Minnesota is proceeding with plans that would allow foreign companies to develop an extensive copper-sulfide mining district in areas in the Lake Superior Basin, as well as in areas that drain into the Boundary Waters Canoe Area Wilderness without evaluating potential cumulative harms to clean water in streams and lakes, fishing, wild rice, biological diversity, clean drinking water in municipal systems and private wells and private property values.

The MDNR auctioned mineral leases in June 2012 without any environmental assessment of potential impacts. Citizens who participated in the Executive Council process for approving mineral leases were told that the Executive Council had no discretion to deny or condition approval of leases.

Other than the public notice (Attachment 1) when mineral leases are put up for auction by the State, there is no public notice when leases are actually signed, and there is no public notice or public process to determine what conditions should be applied to protect sensitive environmental resources or private drinking water wells before prospecting begins. Requesting an EAW before the leases are auctioned is therefore the only reasonable way for citizens to have input into the approval or conditioning of mineral leases.

Citizen Petitions

Petitions signed by more than 140 citizens requesting that an EAW be prepared are included as Attachment 15.

On behalf of each citizen who signed these attached petitions requesting an EAW as well as on my own behalf, I request that the MDNR prepare an EAW to assess the potential for significant and cumulative environmental impacts from the October 2012 auction of state mineral leases. We also request an immediate postponement of the Oct. lease sale until the issues raised in this petition are addressed and that a timely citizen hearing be conducted.

I have provided Randall Doneen at the MDNR (Randall.Doneen@state.mn.us) with a letter providing notice that we have filed this petition for environmental review of the October 2012 auction of state mineral leases.

Date: September 25, 2012

Matthew Tyler
6722 Park Hill Road
Finland, Minnesota 55603-4036
Email: tyle0045@gmail.com
Phone: 218-353-7374

**NOTICE OF INTENT TO HOLD
STATE METALLIC MINERALS LEASE SALE**

State Lands to be Offered for Metallic Minerals Exploration

The Minnesota Department of Natural Resources announces that plans are being developed to hold the state's 33rd sale of metallic minerals exploration and mining leases. The sale is tentatively scheduled for October 2012. The lease sale plans are being announced at this time in order to give mining companies, public interest groups and all other interested parties additional time to review the areas under consideration.

The purpose of Minnesota's metallic minerals rules (Minnesota Rules, parts 6125.0100 - .0700) is to promote and regulate the exploration for, mining and removal of metallic minerals on state-owned and state-administered lands. These rules, and the leases issued under these rules, authorize exploration and development of these minerals and impose certain requirements on the lessee. The requirements include: the payment of rentals that increase with the passage of time, the payment of royalty for all ore mined and removed, the submission of data and other reports, and the addressing of environmental considerations. In addition, the state lessee must comply with all applicable regulatory laws.


The areas under consideration for the lease sale cover portions of Aitkin, Lake and Saint Louis Counties. Some of the lands being considered have been offered in previous metallic minerals lease sales, but based upon the interest shown by industry, new geologic data, and exploration techniques developed during the past few years, it is felt that within these lands there is significant potential for the discovery of mineral resources. Certain new lands of interest are also being considered for the lease sale.

The exact time and place of the lease sale will be announced by legal notice at least thirty (30) days prior to the sale. Mining unit books, listing the state lands to be offered at the lease sale, will be available for inspection or purchase at that time.

A map showing the general areas under consideration may be obtained from the Division of Lands and Minerals, Box 45, 500 Lafayette Road, Saint Paul, MN 55155-4045, telephone 651-259-5959, or by visiting the DNR website at www.dnr.state.mn.us.

Dated: July 16, 2012

By: _____


Larry R. Kramka, Director
Division of Lands and Minerals

Areas Under Consideration for 2012 Metallic Mineral Lease Sale

Attachment 2

Itasca

St. Louis

Lake

Aitkin

Carlton

T58
R15

T58
R14

T57
R14

T56
R14

T56
R8

T47
R23

T46
R23

T46
R22

State Parks are an Exclusion Area
Minn R 6132.2000 SUBP. 2

Northshore Management Zone is
an avoidance area
Minn R 6132.2000 SUBP. 3

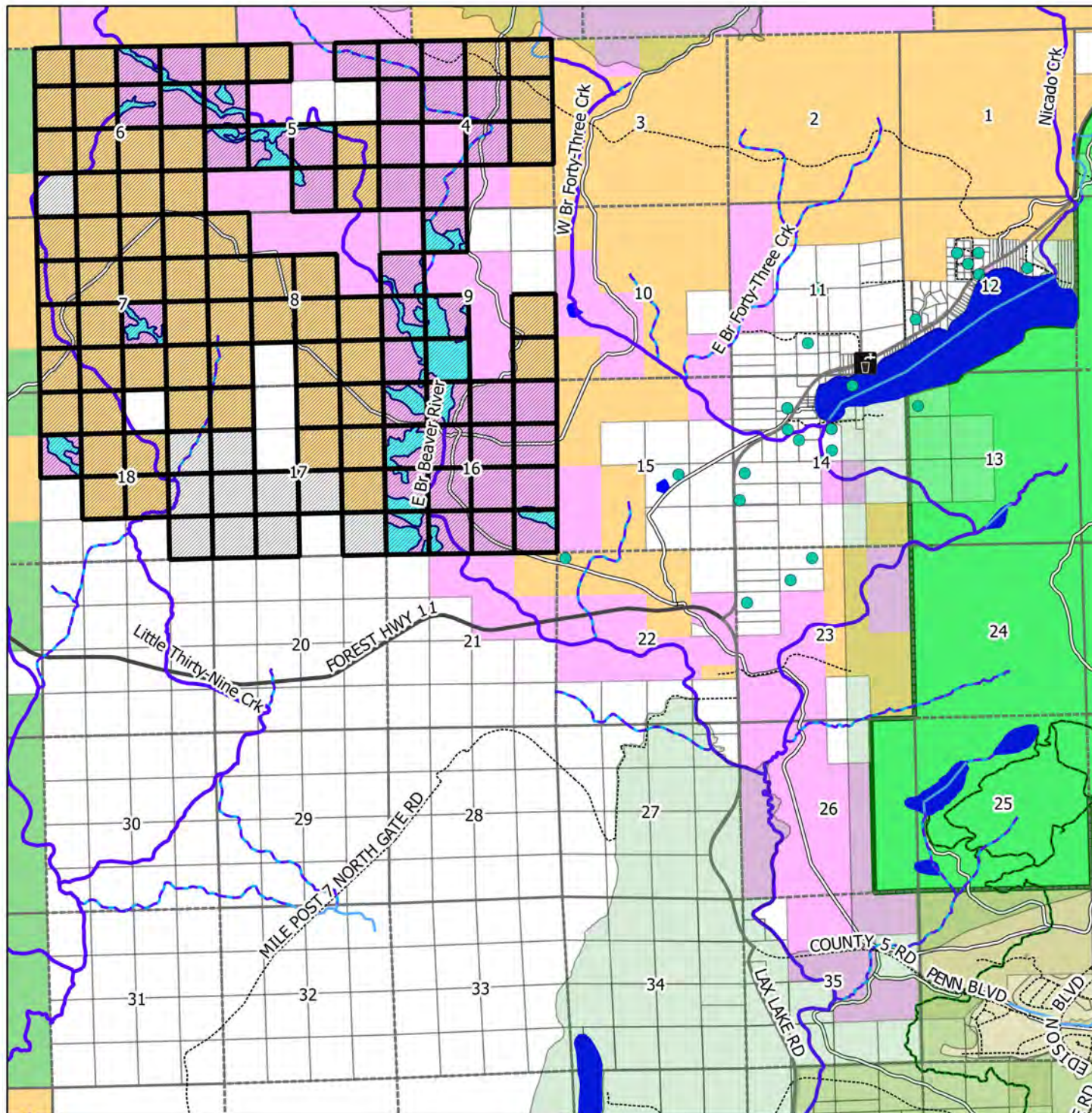
- Northshore Management Zone
- Tettegouche State Park
- Areas Under Consideration



7/26/2012

Attachment 3: Map of Proposed MN DNR Oct 2012 Mineral Leases in Lax Lake Area

Map prepared Sept. 2012 by
Matt Tyler, Finland MN
Data: MN DNR, Lake County,
& MN Dept. of Health GIS



Legend

- Mineral Leases
 - Residential Wells post 1975
 - Inner Wellhead Management Zone
 - Wetlands (DNR FIM)
 - Lakes
 - Designated trout stream
 - Designated trout stream tributary
 - High Biodiversity Areas
- ### Roads
- Highway
 - Major
 - Secondary
 - Superior Hiking Trail
 - Snowmobile Trails
 - Municipal Boundaries
- ### Land Ownership
- LAKE COUNTY
 - NATIONAL FOREST
 - PRIVATE
 - STATE OF MN
 - Tettegouche State Park

Attachment 5: Map of Hoyt Lakes Homes within Boundaries of Proposed October 2012 MN DNR Mineral Leases

Close up of Sections 16 & 17
of Township 58, Range 14

Legend

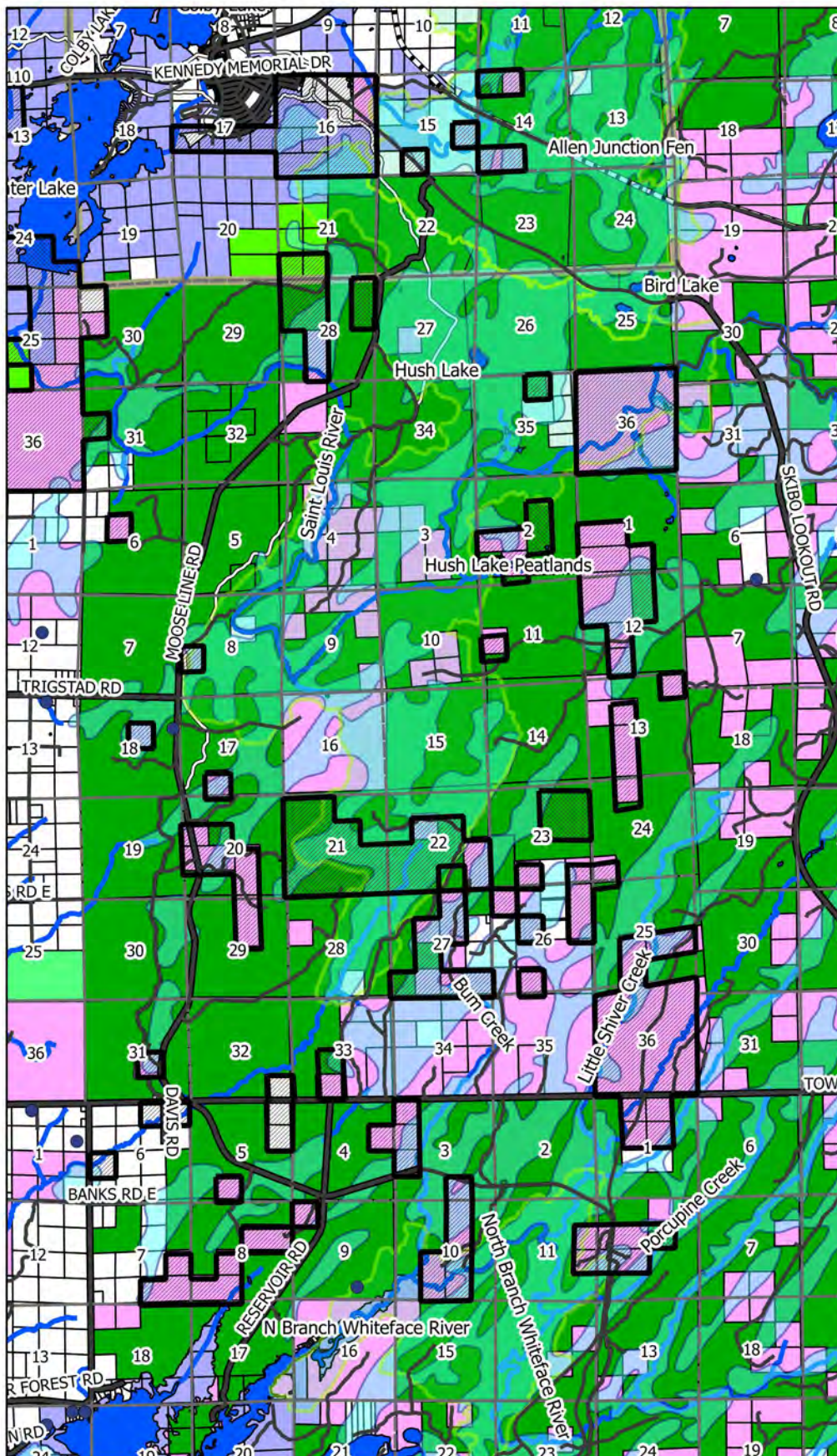
- Homes
- Sections Lines
- Mineral Lease Bounds
- Roads



0 0.25 0.5 Miles

Prepared Sept. 2012 by Matt Tyler, Finland MN
Data Sources: MN DNR & St. Louis County GIS

Attachment 6: Map of Proposed Oct 2012 State Mineral Leases South of Hoyt Lakes (Part B, Southern Portion)



Legend

- Drinking Water Wells
- ▨ State Mineral Leases
- Minor Roads
- - - Section Lines
- ⚡ Railroad
- Snowmobile Trails
- ▭ Municipal Boundaries
- ▭ MCBS High Biodiversity Sites
- ▭ Wetlands (NWI)
- ▭ Lake
- ▭ River
- ▭ Private Lands
- ▭ Paper Company Lands
- ▭ Mining and Power Company
- ▭ St. Louis County Lands
- ▭ State Lands
- ▭ US Forest Service Lands

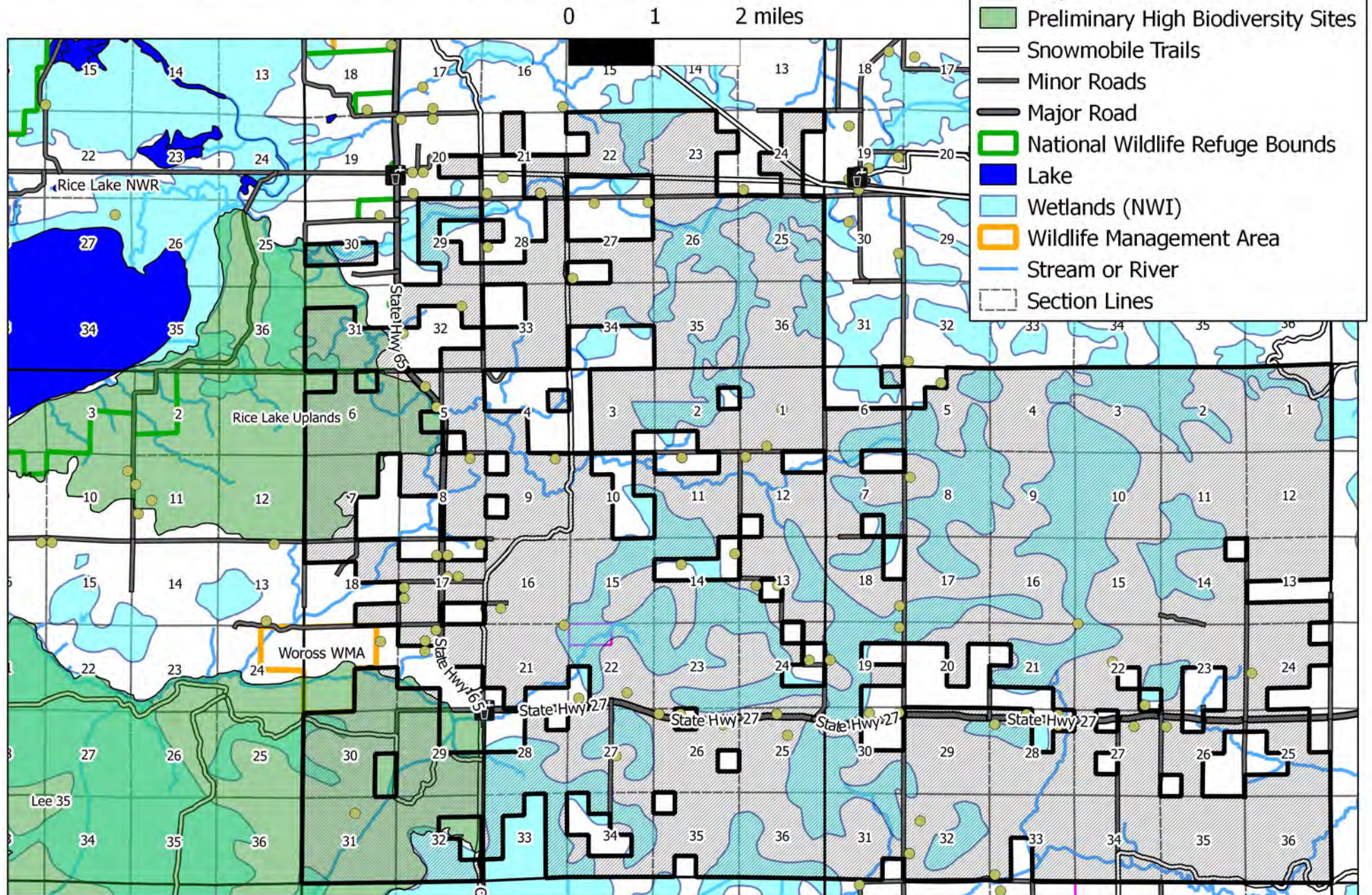
Prepared Sept 2012
By Matt Tyler, Finland MN
Data: MN DNR, St. Louis County
& MN Dept. of Health GIS

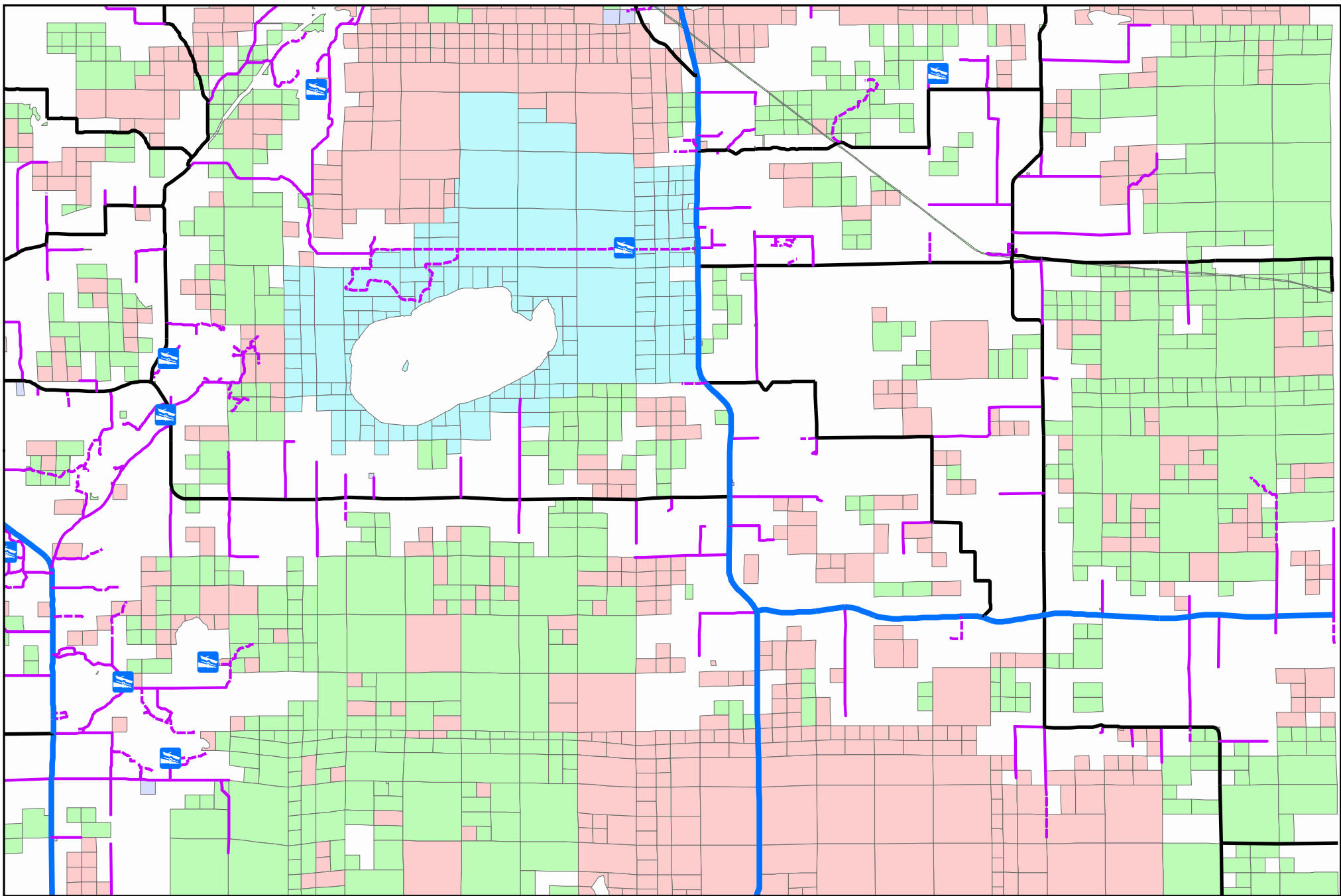
0 1 2 miles



Attachment 7: Map of Proposed Oct 2012 State Mineral Leases in the Aitkin County Area

Prepared Sept 2012 by Matt Tyler, Finland MN Data: MN DNR & MN Dept of Health GIS





0 4,050,100 16,200 Feet

Scale: 1:138,327

Public Land in Aitkin Lease Area

Attachment 8

9/22/2012 6:20:24 PM

These data are provided on an "AS-IS" basis, without warranty of any type, expressed or implied, including but not limited to any warranty as to their performance, merchantability, or fitness for any particular purpose.

Federal Hardrock Mineral Prospecting Permits Project

Final Environmental Impact Statement

Executive Summary

May 2012

The USDA Forest Service is proposing minerals management activities on National Forest System land in the Federal Hardrock Mineral Prospecting Permits Project. The USDI Bureau of Land Management is a cooperating agency for this Environmental Impact Statement.

The activities in the Federal Hardrock Mineral Prospecting Permits Project are intended to implement some objectives of the Superior National Forest Land and Resource Management Plan (Forest Plan). The activities would contribute to allowing for minerals exploration in an environmentally sound manner. Proposed activities would include:

- Minerals exploration activities for federal minerals in 29 permit areas on the Superior National Forest. This could include geophysical surveys, temporary road construction and reconstruction, drill pad clearing, core drilling, and reclamation activities.
- Temporary road construction and decommissioning under special use permits in locations outside the 29 permit areas.
- Monitoring the use and effects of the minerals exploration.

The Final Environmental Impact Statement (EIS) describes five alternatives and their effects in detail. The action alternatives address issues identified through scoping, meeting the purpose and need to allow for minerals exploration in an environmentally sound manner. Alternative 1, no action, provides a baseline for comparison with the action alternatives. The USDA Forest Service identified Alternative 4 as the preferred alternative; this alternative best achieves Forest Plan direction and the Project's purpose and need while considering public comments.

Electronic versions of the Final EIS are available on the Superior National Forest web site at www.fs.usda.gov/goto/superior/projects. Copies of the Final EIS can be obtained from the Forest Headquarters by calling (218) 626-4300. The contact person for the Final EIS is Peter Taylor, Project Coordinator, who may be reached at (218) 626-4368. Tim Dabney, Acting Forest Supervisor, is the official responsible for the Final EIS.

Attachment 2: Stipulations Federal Hardrock Minerals Prospecting Permits Forest Service Record of Decision

Prospecting Permit Stipulations

1.1 Forest Service Stipulations

The following are Forest Service requirements that apply to my decision to select Alternative 4. These stipulations define and describe processes for permit administration and coordination.

1. All work and any operations authorized under this permit shall be done according to a BLM approved operating plan on file with the Forest Supervisor at 8901 Grand Avenue Place, Duluth, MN 55808-1102. Plans generally require a minimum of 45 days for Forest Service review. The Bureau of Land Management must also review and approve the plan.
2. The Operating Plan will contain information the Forest Officer determines reasonable for assessment of (1) public safety, (2) environmental damage, and (3) protection for surface resources. The content of such plans will vary according to location and type of activity and may contain:
 - a. Steps taken to provide public safety.
 - b. Location and extent of areas to be occupied during operations (including GPS coordinates of drill holes located to an accuracy of 1 meter or less).
 - c. Operation methods including size and type of equipment.
 - d. Capacity, character, standards of construction and size of all structures and facilities to be built. [No structures or facilities are proposed.]
 - e. Location and size of areas where vegetation will be destroyed or soil laid bare.
 - f. Steps taken to prevent and control soil erosion.
 - g. Steps taken to prevent water pollution.
 - h. Character, amount, and time of use of explosives or fire, including safety precautions during their use. [Explosives and fire are not proposed.]
 - i. Program proposed for rehabilitation and revegetation of disturbed land.
 - j. An estimated time frame for any construction or drilling requests so that coordination between other permit holders or contract holders for surface uses can be established.
3. The permittee shall submit copies of all applicable State and Federal agency permits to the Forest Service prior to starting operations. If permit(s) are not required, the permittee shall submit proof or documentation that a permit is not required.
4. The Forest Supervisor or his/her designated agent has authority to temporarily suspend or modify operations in whole or in part due to emergency forest conditions such as high fire danger or other unsafe situations. The permittee must keep the District Ranger informed about the progress of operations to the extent reasonably necessary for assuring public safety. This is especially important with geophysical inventory and testing activities because of their mobile nature. The District Ranger

Superior National Forest Federal Hardrock Minerals Prospecting Permits Project

will alert the permittee to circumstances which may affect safe and efficient conduct of work activities. The Forest Supervisor or his/her designated agent will inform BLM such circumstances exist.

5. The District Ranger shall be given advance notification of any activity that could involve hazards to public safety and suitable action will be taken to protect the public.
6. The District Ranger shall be notified at least 2 weeks in advance of the start up of all activities under the operating plan. This includes all activities in future years such as permanently sealing drill borings, geophysics, road work/closures, site maintenance, and final reclamation.
7. The District Ranger shall be notified yearly on the company's intent to permanently seal drill borings and when final reclamation will take place.
8. The permittee shall coordinate with Forest Service Officials to complete pre-construction field review on an approved operating plan to ensure placement of roads and drill sites is consistent with prospecting permit stipulations and operating plan conditions, and provide for resource protection.
9. Pursuant to the provisions of the act of March 4, 1917 (16 USC 520), Section 402 of the Re-organization Plan No. 3 of July 16, 1946 (60 Stat. 1097, 1099), the Act of August 7, 1947 (30 USC 352), and the National Environmental Policy Act of 1969 (42 USC 4321 et seq.) as said authorities have been or may hereafter be amended, no mineral development of any type is authorized hereby, and consent to the issuance of this prospecting permit as required by law and regulation (43 CFR 3507.11 (d)) and 43 CFR 3507.19(c)) is given subject to the express stipulation that no mineral lease may be issued for the land under permit without the prior consent of the Forest Service, USDA and the proper rendition of an environmental analysis in accordance with the National Environmental Policy Act of 1969, the findings of which shall determine whether and under what terms and conditions for the protection of the land involved the lease may be issued.
10. The licensee/permittee/lessee must comply with all the rules and regulations of the Secretary of Agriculture set forth at Title 36, Chapter II, of the Code of Federal Regulations governing the use and management of the National Forest System (NFS) when not inconsistent with the rights granted by the Secretary of the Interior in the prospecting permit. The Secretary of Agriculture's rules and regulations must be complied with for (1) all use and occupancy of the NFS prior to approval of a permit/operation plan by the Secretary of the Interior, (2) uses of all existing improvements, such as Forest development roads, within and outside the area permitted by the Secretary of the Interior, and (3) use and occupancy of the NFS not authorized by a permit/operating plan approved by the Secretary of the Interior. All matters related to this stipulation are to be addressed to Superior National Forest Supervisor at 8901 Grand Ave. Place, Duluth, MN 55808-1122, telephone number (218) 626-4300, who is the authorized representative of the Secretary of Agriculture.
11. Terms of the permit are considered violated if not done according to all stipulations.

1.2 Resource Stipulations

This section lists stipulations that are included as part of Forest Service consent on a prospecting permit, or that the FS may recommend the BLM include on a permit. These stipulations are derived in part from requirements in the Forest Plan direction regarding physical, social and biological resources (these are noted with a citation to the Forest Plan location), other stipulations or operating conditions may be derived from species conservation agreements, or be developed as a result of individual resources analysis. This section includes direction that is not found within the Forest Plan but will ensure resource protection and safe operations during mineral exploration activities.

The following stipulations are designed into selected Alternative 4. As noted in the below tables, several stipulations may include modifications or waivers based on site specific proposals that are submitted and analyzed, as long as the objective is met. The Forest Service would identify the applicable stipulations for each of the 29 prospecting permits, for example where no surface occupancy, timing restrictions or other protections would be required.

When an operating plan is proposed, it must be designed to be consistent with the protection in the prospecting permit. The BLM and FS will review these plans, and assess if the plans are consistent, in which the FS may make recommendations to BLM on the surface use and reclamation aspects of a plan. These restrictions and protections are shared with the BLM, who has the authority to approve operating plans. The location of proposed sites may be modified slightly in cooperation with the surface managers recommendations.

1.2.1.1 General Administration

Administration	
Best management practices	
GA-1 Stipulation Conditions of Approval (CoA's) drill sites and road access.	<p>Additional mitigation and best management practices requirements may be added to any prospecting permit or operating plan by the agencies if an environmental analysis, permitting process, or permit/operating plan administration shows there is a need for improved resource management.</p> <p>No waivers or modifications.</p> <p>Best management practices shall be followed that include but are not limited to the following list:</p> <ol style="list-style-type: none"> Surface disturbance from drilling shall be minimized to the extent possible. Drilling will involve some surface disturbances because of the need to prepare drill sites (including sumps for water re-circulation and settling out of drill cuttings) and the need to construct new access roads. In the construction of new access roads and drill pad sites, all effort shall be made to avoid cutting of timber. Removal or cutting of trees and vegetation shall be kept to a minimum. The permittee shall acquire a timber sale permit prior to any tree cutting. All woody vegetation must be cut parallel with the ground surface to prevent sharp points and as close to the ground as possible. Slash, brush, tree limbs, seedlings and saplings cut to clear temporary roadways, shall be disposed of or stored along the edges of the cleared temporary roadways such that the larger debris is easily accessible during reclamation. Any piled trees cut or pushed over along with slash shall be no higher than 3 feet high. This material shall be utilized in rehabilitating the temporary roads and drill pad sites once drilling operations are complete. For this reason, chipping of timber and slash shall not be utilized. Also, avoid felling trees into non-forested wetlands. No trees over 5 inches in diameter at breast height of 4 feet 5 inches above the surface (DBH) may be pushed over, they must be cut. Stumps shall be left no higher than 10 inches above ground. Any slash piles shall be no higher than 3 feet high. The top 12 inches of topsoil shall be stripped and stockpiled separately from the rest of the excavated material. This material shall be spread over the surface as the last step in re-contouring the sites and/or access routes during reclamation.
Objective	Permit activities in a way that protects forest resources and assists in project administration.
Source	SNF minerals program management.
GA-2 Stipulation CoA Unique to a quarry	No drilling will be allowed within Forest Service mineral material quarry permit areas unless the Forest Service and contractor both agree the activities will not interfere with the contract operations and will not damage the stone deposit.
Objective	Ensure that hardrock prospecting does not interfere with mineral material quarry contract permittee operations or other FS gravel quarries.
Source	SNF minerals program management.

Administration	
GA-3 Stipulation CoA's drill sites and road access	Permittees may perform activities that accelerate the ground to freeze when operations are limited to frozen ground conditions. Activities to achieve frozen ground access will be identified in the Operating Plan approval process.
Objective	Develop frozen ground conditions at the earliest time during the year to extend the winter drilling season.
Source	SNF minerals program management.
GA-4 Stipulation CoA's drill sites and road access.	For all exploration holes drilled on the SNF, the permittee shall submit a carbon copy of an exploratory boring sealing report at the same time it is submitted to the State of Minnesota in accordance with Minnesota Department of Health, Explorers and Exploratory Borings, rule 4727.0920. The report shall be sent to the SNF authorized officer.
Objective	To assure drill bore hole abandonment is completed in accordance with Minnesota state rules.
Source	SNF minerals program management.
Health and Safety	
GA-5 Stipulation CoA's drill sites and road access	<p>Health and safety precautions should be followed, including, but not limited to the following list:</p> <ul style="list-style-type: none"> a. BLM prospecting permit sec.1 (d). In the interest of safety and to the extent practical, unauthorized personnel shall be discouraged from entering operations areas. The permittee shall discuss options for this with the Authorized Officer and implement the requirements. b. Road signs shall be installed for vehicle and public safety and shall be approved by the Authorized Officer prior to installation. c. Other appropriate signing may be required and permitted as long as first approved by a Forest Service Official. d. The District Ranger shall be given advance notification of any activity that could involve hazards to public safety and suitable action shall be taken to protect the public. e. Vehicles and drills shall be equipped with fire-fighting equipment. f. No explosives or firearms shall be permitted on the project by the permittee. g. During drilling operations, trash shall be stored in suitable containers and removed from the site for disposal h. Fires are permitted only in specific heating devices (salamanders, cook stoves, etc.) and all state and federal fire laws and regulations shall be observed to prevent and suppress fires in the areas of operation. i. Sump pits shall be fenced off during drilling operations if drill site is unattended by company representatives or drill rig operators to provide for public safety.
Objective	To protect health and safety of operators and publics.
Source	SNF minerals program management

1.2.1.2 Location and extent of areas to be occupied

Location and extent of areas to be occupied		
Minimizing impacts		
	LOC-1 Stipulation CoA's drill sites and road access	All roads, trails, drill pads and other disturbance features shall be staked or flagged on the ground for agency review during the Operating plan approval phase and prior to implementation of the operating plan.
	Objective	Provide proposed and permitted disturbance features locations for agency administrative review purposes to determine applicable stipulations.
	Source	SNF minerals program management.

Research Natural Areas		
	LOC-2 Stipulation CoA's apply to permits with CRNA's	No Surface occupancy is allowed within Candidate Research Natural Areas and Research Natural Areas (locations are identified in Map 2)
	Objective	Maintain the role of these Management Areas in ecological research and serve as baseline or reference areas for comparison to other similar ecosystems that are subject to a wider range of management activities.
	Source	Forest Plan S-RNA-13
Unique Biological Areas		
	LOC-3 Stipulation CoA's apply to permits with UBA's	No Surface occupancy is allowed within unique biological areas as defined by the Forest Plan (locations are identified in Map 2)
	Objective	To protect unique biological resources
	Source	Forest Plan S-UB-6
Wild and Scenic Rivers		
	LOC-4 Stipulation CoA's apply to permits with Wild designation river segments	No permit, lease, or other authorization will be issued for exploration or development of minerals owned by the United States within wild sections of designated Wild & Scenic Rivers. These areas include a ¼ mile corridor on each side of a river (locations are identified in Map 2).
	Objective	To protect the characteristics for which the river was designated wild.
	Source	Forest Plan S-WSR-11

1.2.1.3 Heritage Resources

Heritage Resources		
Unknown locations		
	HR-1 Stipulation CoA's drill sites and road access	No earth-disturbing activities shall occur prior to completion of a survey in areas where heritage resource surveys have not been completed and the area proposed for ground disturbing activities is determined by the Forest Archaeologist to have a medium-high potential for historic properties.
	Objective	Identify, evaluate, protect, monitor, and preserve heritage resources
	Source	Forest Plan O-HR-1
	HR-2 Stipulation CoA's drill sites and road access	If the permittee decides to provide a heritage resource survey and report, the permittees archaeological contractor must contact the SNF Archaeologist and acquire all necessary permits. The permit must be obtained prior to the initiation of any heritage resource investigations on the SNF. The archaeological contractor will submit the report on the investigations to the SNF Archaeologist following the conditions of the permit, and the SNF will initiate and carry to completion all regulatory consultation with the Minnesota State Preservation Officer and Tribal Historic Preservation Officers within the ceded (1854) territory as required by the National Historic Preservations Act of 1966, as amended through 1992, and the accompanying regulations as found in 36 CFR 800. MN State Historic Preservation Office; 36 CFR 800
	Objective	Identify, evaluate, protect, monitor, and preserve heritage resources
	Source	Forest Plan O-HR-1

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Heritage Resources		
Sites found during implementation		
	HR-3 Stipulation CoA's drill sites and road access	If heritage resources are discovered during the implementation of exploration activities, the project must halt at that location and the Forest Archaeologist must be notified. The SNF Archaeologist may notify the Tribal Historic Preservation Officer and the MN State Historic Preservation Office.
	Objective	Identify, evaluate, protect, monitor, and preserve heritage resources
	Source	Forest Plan O-HR-1 also reference BLM Prospecting Application and Permit, Sec.11
Known locations		
	HR-4 Stipulation CoA's drill sites and road access	Historic properties will have no surface occupancy both within the site and a buffer of one chain (66.5 feet) beyond known site limits.
	Objective	Identify, evaluate, protect, monitor, and preserve heritage resources
	Source	Forest Plan S-HR-9
	HR-5 Stipulation CoA's drill sites and road access	Any heritage resource sites located prior to prospecting activities shall be no surface occupancy and boundary identified on the ground. Protection measures shall be developed by the Forest Archaeologist, through collaboration with the State Historic Preservation Officer and Tribal Historic Preservation Officers within the ceded (1854) territory (SHPO/THPO).
	Objective	Identify, evaluate, protect, monitor, and preserve heritage resources
	Source	Forest Plan O-HR-1

1.2.1.4 Recreation, Noise and Visuals

Recreation, Noise and Visuals		
Noise Abatement		
	RV-3 Stipulation¹	<p>Reduce sound levels emitted by drilling reaching receptors:</p> <ul style="list-style-type: none"> to an L50 level of 30 dBA and an L10 level of 35 dBA at the boundary of the BWCAW. <p>This may be accomplished with measures such as installing baffling around the engine, adjusting the location of drilling, or other measures that may be identified during implementation.</p> <p>Note that Minnesota Rules on Noise also apply to project activities.</p>
	Objective	Reduce level of effects to opportunities for solitude in the BWCAW.
	Source	Issue identified for the Federal Hardrock Minerals Prospecting Permit EIS
RV-4 Stipulation		Receptors that are likely to be in the flight path of helicopters on repeated occasions would be identified in operating plans and alternate flight paths or elevations would be identified as needed to minimize effects to the extent possible while maintaining the safety and efficiency of helicopter operations.
Objective		Reduce level of annoyance for Forest recreation users, and effects to solitude for wilderness users.
Source		Issue identified for the Federal Hardrock Minerals Prospecting Permit EIS
Visual Integrity		
High Scenic Integrity Objective (SIO) areas		
	RV-5 Stipulation CoA's drill sites and road access in	Staking, paint, flagging, equipment, maintenance, and staging areas should be minimized, removed or cleaned up within one month following project completion.

¹ This stipulation is numbered RV-3 to maintain consistent reference between the Final EIS and ROD. RV-1 and RV-2 are not included in this ROD.

Recreation, Noise and Visuals		
	High SIO	
	Objective	Minimize evidence of temporary activities and ensure cleanup is concurrent with project completion.
	Source	Forest Plan G-SC-4, page 2-48 (map of SIO areas)
Moderate and High SIO areas		
	RV-6 Stipulation CoA's drill sites	Adjust the location of the activities if the mechanized activities can be viewed from travelways, recreation sites and bodies of water with access. Adjustments may move a drill site up to 100 feet to avoid high visibility areas.
	Objective	Minimize evidence of management activities
	Source	Forest Plan G-SC-6
	RV-7 Stipulation CoA's drill sites and road access	Generally obliterate roads and trails that are decommissioned and reclaimed according to road stipulations under section 1.2.1.8 and 1.2.1.12.
	Objective	Restore roads and trails to a natural appearance (See Appendix D for example drawing).
	Source	Forest Plan G-TS-15
Lighting		
	RV-8 Stipulation CoA's drill sites	Reduce light pollution generated at drill sites by pointing lighting sources for drill rigs downwards and/or shielding lighting as feasible while completing safe drilling operations..
	Objective	Reduce light pollution impacts to recreation users and residences.
	Source	Forest Plan G-TS-15
	Modification or Waiver	Lights may be modified to the extent necessary to provide for safe operations or to protect public safety.
Developed Recreation Areas		
	RV-9 Stipulation NSO identified on a map CoA's drill sites and road access	No surface occupancy inside developed recreation sites (for example, campgrounds, parking areas and trail heads).
	Objective	To reduce conflicts to the recreation users and avoid damage to infrastructure.
	Source	Forest Plan, G-Rec-2

1.2.1.5 Threatened and Endangered Wildlife Species

Threatened and Endangered Species		
Canada Lynx		
	Den Sites	
	TES-1 Stipulation	Protect known active Canada lynx den sites during the denning season (May 1-July 31) with a buffer of 660 feet (1/8 mile). Site conditions such as topography and vegetation cover may be used by a SNF biologist to refine site-specific distance.
	Objective	To reduce human influences on mortality risks
	Source	Forest Plan G-WL-1 and G-WL-2, LCAS Project planning guideline F. 1,(Ruediger et al. 2000, page 86),
Vehicles Traveling on Roads		
	TES-2 Stipulation	Prospecting permit employees and subcontractors who will drive on roads during project activities shall retain in all vehicles information to allow them to identify Canada lynx. The Forest Service will provide this information to permit holders. Any lynx mortality resulting from project activities shall be reported per this information. .
	Objective	To reduce human influences on mortality risks
	Source	USDI Fish and Wildlife Service Biological Opinion dated March 22, 2012: Reasonable and Prudent Measure #1, Term and Condition #2

In addition to TES-2 my decision also includes the following actions that the Forest Service will take to fulfill the terms and conditions in the Biological Opinion:

- “Place “Caution!! Entering Wildlife Crossing Area” or similar signs along the stretches of Forest Road 424 and Forest Road 377 identified in the attached Biological Assessment in any areas where lynx crossing may be most likely. Signs may be removed when the traffic volume returns to relatively normal levels (i.e., after year 9 of project implementation). Similar signs may be placed along the stretches of State Highway 1 and State Highway 1/169 identified in the attached Biological Opinion where lynx crossing may be likely and where the Forest has jurisdiction. The signs should adhere to Forest Service sign guidelines.”
- “Mortality reports should be provided to the Service by December 31 of each calendar year the Revised Forest Plans are implemented. Reports should include, to the extent known, the cause of mortality, location, and sex of lynx. This report can be in conjunction with reporting for other concurrent projects on the Superior National Forest.”
- “Rather than establishing a discrete field monitoring effort to document lynx mortality, contribute to the currently established reporting system maintained by the U.S. Fish and Wildlife Service. The Forest Service should coordinate with partners in state, tribal, county, municipal law enforcement, wildlife management agencies, lynx researchers, and the public to collect information necessary for this reporting system. Information voluntarily provided by these agencies, researchers, and others and compiled by the U.S. Fish and Wildlife Service would fulfill the requirements of the reasonable and prudent measure.”

1.2.1.6 Terrestrial Wildlife Species, including Regional Forester’s Sensitive Species (RFSS)

The following stipulations for the regional forester’s sensitive species and other species are designed to meet the Forest Plan objective to maintain, protect, or improve habitat for sensitive species through site-level management strategies (O-WL-18): addressing species’ needs by managing specifically for high quality habitat or known locations of sensitive species. The stipulations reflect management approaches and protective measures that are either Forest Plan standards or guidelines or methods that SNF biologists have applied and found to protect each particular species depending on the species’ habitat requirements and distribution, individual site conditions, and expected management impacts (G-WL-12).

RFSS and other species of interest		
General requirements of known locations		
	RFSS-1 Stipulation	Avoid or minimize negative impacts to known occurrences of sensitive species using buffers of 10 to 660 feet (1/8 mile). Site conditions such as topography and vegetation cover maybe used by a SNF biologist to refine site-specific distance.
	Objective	Maintain and protect sensitive species habitat and reduce adverse effects to species
	Source	Avoidance is a standard SNF site-level management strategy used to meet Forest Plan G-WL-11.
	RFSS-2 Stipulation	Minimize negative impacts to known sensitive species from management activities that may disturb pairs in their breeding habitat during critical breeding season (varies by species) using buffers of 10 to 660 feet (1/8 mile). Site conditions such as topography and vegetation cover may be used by a SNF biologist to refine site-specific distance.
	Objective	Maintain and protect sensitive species habitat and reduce adverse effects to species
	Source	Forest Plan G-WL-12

RFSS and other species of interest		
Sites found during implementation		
RFSS-3 Stipulation	If a new nest is found for bald eagle, osprey, goshawk, boreal owl, or great gray owl, during project implementation, activities would be temporarily halted in the area. The District Biologist would be consulted and appropriate mitigation measure would be promptly designed and carried out prior to restarting operations.	
Objective	Reduce breeding season disturbance to RFSS. This is a SNF site-level management strategy routinely used to meet Forest Plan G-WL-12.	
Source	Forest Plan G-WL-12 b.	
Survey requirements for unknown locations		
RFSS-4 Stipulation	Because all listed plant locations or nest and/or den sites are not known, survey needs shall be determined by a SNF biologist, using approved protocols in suitable habitat, to determine occupancy in the areas where exploration activities are planned. The suite of species in need of surveys may change as the sensitive species list is updated or new information on species or survey protocol warrants surveys.	
Objective	Contribute to the conservation of sensitive species and the habitats upon which these species depend and conserve the genetic variability of species.	
Source	Forest Plan D-WL-3d and D-WL-3i. This is a standard, SNF site-level management strategy used to meet Forest Plan G-WL-12 b	
Gray Wolf (also a Management Indicator Species)		
Den Sites		
RFSS-5 Stipulation	Provide for the protection of known active gray wolf den sites during the denning season (April 1-May 30).This equates to No Surface Occupancy during the timeframe given within a buffer of 660 feet (1/8 mile). Site conditions such as topography and vegetation cover may be used by a SNF biologist to refine site-specific distance.	
Objective	To limit disturbance by humans during denning season	
Source	Forest Plan G-WL-10.	
Bald Eagle (also a Forest Plan Management Indicator Species):		
Nests		
RFSS-6 Stipulation	Maintain a buffer of 660 feet (1/4 mile) between the activities and the nest (including active and alternate nests) from January 15 – July 31. This equates to No Surface Occupancy in the timeframe and location given.	
Objective	To limit disturbance by humans during breeding and nesting	
Source	National Bald Eagle Management Guidelines (USDI Fish and Wildlife Service 2007)	
RFSS-7 Stipulation	Avoid cutting or removal of overstory trees within 330 of the nest at any time.	
Objective	To protect nesting habitat	
Source	National Bald Eagle Management Guidelines (USDI Fish and Wildlife Service 2007)	
RFSS-8 Stipulation	Do not fly within 1000 feet (305 meters) of the nest, except where eagles have demonstrated tolerance for such activity. Tolerance will be determined by a SNF biologist.	
Objective	To avoid disturbing nesting bald eagles and their young	
Source	National Bald Eagle Management Guidelines (USDI Fish and Wildlife Service 2007)	
Wood Turtles		
Breeding locations		
RFSS-9 Stipulation	A setback of at least 100 feet shall be maintained for drill pad disturbance from perennial streams and rivers	
Objective	To minimize human disturbance to breeding and nesting turtles	
Source	Forest Plan G-WL-19, WAT-8 Stipulation	
Boreal Owl		
Nests and Breeding Habitat		
RFSS-10 Stipulation	Prohibit management activities within 300 feet of known boreal owl nest sites. This equates to No Surface Occupancy in the location given.	
Objective	Minimize disturbance of nesting pairs	

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RFSS and other species of interest		
	Source	Forest Plan S-WL-6
Great Gray Owl		
Nests and Breeding Habitat		
	RFSS-11 Stipulation	Prohibit management activities within 660 feet of known great gray owl nest sites. This equates to No Surface Occupancy in the location given.
	Objective	Limit disturbance to breeding and nesting birds
	Source	Forest Plan G-WL-14
Three-toed Woodpecker		
Nests		
	RFSS-12 Stipulation	Protect known three-toed woodpecker nest sites within 200 foot radius until young have fledged (estimated to occur May 15-July 31). This equates to No Surface Occupancy in the timeframe given.
	Objective	Limit disturbance to breeding and nesting birds
	Source	Forest Plan G-WL-17
Sensitive Butterflies		
Breeding habitat		
	RFSS-13 Stipulation	Protect known locations for: taiga alpine, Freija's grizzled skipper, and Nabokov's northern blue with a 200 foot buffer. If a known location is along an existing road consult with a SNF biologist to define protective timing and/or extent.
	Objective	Minimize disturbance to breeding habitat and individual butterflies
	Source	Forest Plan S-WL-7
Northern Goshawk (also a Management Indicator Species)		
Nests		
	RFSS-14 Stipulation	At northern goshawk nest sites with an existing nest structure, prohibit or minimize, to the extent practical, activities that may disturb nesting pairs in an area of 50 acres minimum (860 ft. radius) during critical nesting season (March 1 – August 30).
	Objective	Minimize disturbance of nesting pairs
	Source	Forest Plan S-WL-10
Breeding habitat		
	SRFSS-15 Stipulation	At northern goshawk nest sites in an area of 50 acres minimum (860 ft. radius), to the extent practical, allow only those activities that protect, maintain, or enhance high quality habitat conditions: 100% mature forest (>50 years old) with continuous forest canopy (>90% canopy closure) and large trees with large branches capable of supporting nests.
	Objective	Maintain high quality breeding habitat
	Source	Forest Plan S-WL-10
Post fledging areas		
	RFSS-16 Stipulation	Within northern goshawk post-fledging areas, as determined by a SNF biologist, minimize activities, to the extent practical, that may disturb nesting pairs during critical nesting season (March 1 – August 30) and, to the extent practical, within a 500 acre area encompassing all known nest areas within the territory.
	Objective	Limit disturbance during critical nesting season and fledging period
	Source	Forest Plan G-WL-22
Osprey		
Nests		
	RFSS-17 Stipulation	No drilling within 330 feet (1/8 mile) of an osprey nest from April 1 through August 15 of each year. No drill sites or roads are allowed within 660 feet of an osprey nest at any time. This equates to No Surface Occupancy in the timeframe and location given.
	Objective	Minimize activities that may disturb nesting pairs of osprey
	Source	Forest Plan G-WL-24, G-WL-25
Great Blue Heron		
Colonies		

RFSS and other species of interest		
	RFSS-18 Stipulation	Prohibit management activities within 330 feet from active great blue heron colonies. Prohibit management activities from 330 to 660 feet from March 1 through August 31. This equates to No Surface Occupancy in the timeframe and location given.
	Objective	Limit disturbance to breeding and nesting birds
	Source	Forest Plan G-WL-26
Common Loon		
Nests		
	RFSS-19 Stipulation	No Surface Occupancy within 300 feet of a loon nest site between May 15 and July 1.
	Objective	Limit disturbance to breeding and nesting birds
	Source	Forest Plan G-WL-28

1.2.1.7 Soils

Ecological Land Types (ELTs) associated with the proposed exploration activities are mapped and identified in the Project File. Table G-WS-8b in the Forest Plan provides a brief description of ELTs on the SNF identified in the measures below (Forest Plan, p. 2-18). Since equipment and techniques for drilling can vary, case by case exceptions or modifications can be granted for meeting the Forest Plan requirements in this table upon review of proposed equipment and activities by a SNF soil scientist, hydrologist, geologist or ecologist for consistency with Forest Plan requirements. While ELT mapping on the Forest is considered accurate there may be some instances where on the ground conditions may differ from what is mapped (typically these are small areas considered inclusions too small to map and manage practically at the landscape scale). In those cases, with a review by a SNF soil scientist, hydrologist, geologist or ecologist, exploration activities could occur outside of the guidance established by the following stipulations where and when it is deemed appropriate by agency staff. Those operations would be subject to any alternative stipulations considered applicable by the soil scientist, hydrologist, geologist or ecologist.

Soils		
General Soils		
	SOIL-1 Stipulation CoA's drill sites and road access	Salvage and reuse topsoil for site rehabilitation during construction projects or other land use activities including road access, work areas and drill sites where there is soil disturbance. When topsoil is unsuitable for reuse, other methods or tools such as sodding, hydro-seeding, fertilization, or erosion-resistant matting may be used to help rehabilitate disturbed areas.
	Objective	To maintain site productivity and minimize erosion
	Source	Forest Plan S-WS-3
	Modification or waiver	None
Ecological Land Type (ELT) Restrictions (mapping for locations is available in the project file, too large to include within the FEIS)		
On ELTs 1, 2, 3, 4, 5 and 6		
	SOIL-2 Stipulation CoA's drill sites and road access with these ELT's	Drilling and access are limited to frozen soil (frozen to a depth that will support equipment that is being used and no rutting and compaction occurs).
	Objective	To maintain soil structure and prevent displacement
	Source	Forest Plan Page 2-16 G-WS-8, p. 2-17 Table G-WS-8a

Soils		
	Modification or waiver	Since equipment and techniques for drilling can vary, case by case exceptions or modifications can be granted for meeting the Forest Plan requirements in this table upon review of proposed equipment and activities by a SNF soil scientist or hydrologist for consistency with Forest Plan requirements.
On ELTs 10, 14, 15, 16 and 17		
	SOIL-3 Stipulation CoA's drill sites and road access	Drilling and access are limited to frozen soil (frozen to a depth that will support equipment that is being used and no rutting and compaction occurs) or the normal dry period
	Objective	To prevent rutting and compaction
	Source	Forest Plan Page 2-16 Table G-WS-8 p. 2-17 Table G-WS-8a
	Modification or Waiver	Activity could take place during non-frozen conditions or outside of the normal dry period if techniques and/or equipment designed to eliminate rutting and compaction are utilized.
On ELTs 9, 12, and 18		
	SOIL-4 Stipulation CoA's drill sites and road access	Drilling would not be allowed.
	Objective	Maintain site productivity
	Source	Forest Plan Page 2-16 Table G-WS-8 p. 2-17 Table G-WS-8a.
	Modification or Waiver	Since equipment and techniques for drilling can vary, case by case exceptions or modifications can be granted for meeting the Forest Plan requirements in this table upon review of proposed equipment and activities by a SNF soil scientist or hydrologist for consistency with Forest Plan requirements.
On ELTs 12 and 18		
	SOIL-5 Stipulation CoA's drill sites and road access	New access roads would not be authorized. This equates to No Surface Occupancy in these ELTs.
	Objective	Maintain site productivity
	Source	Forest Plan Page 2-16 Table G-WS-8 p. 2-17 Table G-WS-8a.
	Modification or Waiver	None
Wetland Soils		
	SOIL-6 Stipulation CoA's road access	On access routes, appropriate water diversion structures (such as water bars) to reduce erosion shall be installed and so that surface water diverted from roads into filter strips or vegetative area, rather than directly into streams, lakes, open water wetlands, etc.
	Objective	To minimize erosion and rutting.
	Source	As recommended in Part 3 of Sustaining Minnesota Forest Resources: Voluntary site-level Management Guidelines, Forest Soil Productivity section.
	Modification or waiver	None
	SOIL-7 Stipulation CoA's road access	Use of wetlands under frozen ground conditions for temporary roads and skid trails will generally be permitted as long as no fill is placed in the wetland and no rutting occurs. These roads or trails will be blocked to discourage vehicle use under unfrozen conditions.
	Objective	To maintain hydrologic function and minimize rutting and compaction (see WAT Objectives)
	Source	Forest Plan Page. 2-15, G-WS-12
	Modification or waiver	None

1.2.1.8 Roads

Roads		
Temporary roads construction and closure		
	RDS-1 Stipulation CoA's road access	Any lapse in exploration activities at a given drill site greater than two weeks requires temporary access road closure. Road closure must effectively prevent access from motorized traffic. The point at which the temporary road is closed shall be determined on a site-specific basis.
	Objective	To limit the amount of human interaction with lynx and wolves
	Source	Forest Plan S-TS-3
	RDS-2 Stipulation CoA's road access	New roads built to access land for resource management will be temporary and not intended for public motorized use. Temporary roads will be decommissioned and reclaimed after their use is completed. As soon as access use is completed, stabilize temporary roads and effectively close them to motorized traffic. Roads and trails designated for decommissioning and reclamation will generally be subject to the following: a. The road or trail will be rendered unusable by motorized vehicles by the placement of scattered large rocks (1 CY or greater) and boulders and the transplanting of small trees and brush to match the surrounding area to help the road disappear to passing motorists (See Appendix D). b. Stream crossing structures will be removed and the stream riparian buffer restored. c. Road and trail fills will be removed from flood prone and wetland areas to restore stream and wetland crossings to original contours. d. Removed fill will be used to recontour the "cut" section that it was removed from along the road. (i.e. recontour to pre-existing site conditions) e. Exposed soil will be revegetated.
	Objective	To limit the amount of human interaction with lynx and wolves
	Source	Forest Plan G-TS-14, Forest Plan G-TS-16
	RDS-3 Stipulation CoA's road access	On existing OML 1 roads, an effective barrier will generally be installed as needed to prevent use by highway-licensed vehicles or Off road vehicles (ORVs). All terrain vehicle (ATV) and Off highway motorcycle (OHM) use may continue to be allowed on some existing OML 1 roads.
	Objective	To maintain required habitat components in wolf habitat and to limit the amount of human interaction with lynx and wolves
	Source	Forest Plan S-TS-12
	RDS-4 Stipulation CoA's road access	Slash, brush, tree limbs, seedlings and saplings cut to clear temporary roadways, shall be pushed a minimum distance for safe and efficient use of access. This slash material shall be utilized in rehabilitating the temporary roads and drill pad sites once drilling operations are complete or during final reclamation. For this reason, chipping of timber and slash shall not be utilized.
	Objective	Limit disturbance outside of the road prism and utilize woody materials for reclamation.
	Source	SNF mineral program management

Roads		
General Road use		
	<p>RDS-5 Stipulation CoA's road access</p>	<p>Low Standard access roads used by permittees (temporary, OML-1 and OML-2) shall be maintained commensurate with the permitted use. The permittee is responsible for maintenance during all project activities and up until Forest Service has accepted final reclamation and the reclamation bond is released.</p> <p>h. Maintenance activities may include, but are not limited to, grading, installing or replacing road closure and erosion control or sediment capturing devices.</p> <p>i. Access roads may be temporarily closed if conditions result in evidence of road damage as required by the Authorized Officer.</p> <p>j. Allow for aquatic organism passage in perennial streams.</p> <p>k. When rutting exceeds 6 inches in depth for continuous distances greater than 300 feet on any portion of roads, cease equipment operations on that portion of road. Resume operations only when conditions are adequate to support equipment or other mitigation has been approved by the Authorized Officer (MFRC guidelines)</p> <p>l. Fill in ruts and holes that develop during road use. Use a suitable material (such as gravel or compacted fill), and fill as soon as possible to reduce the potential for erosion. Any importation of fill must first be approved by the Authorized Officer.</p> <p>m. When applicable, specific areas shall be identified in the road maintenance plan for disposal of borrow or quarry sites, stockpiles, or other uses that are needed for the project.</p> <p>n. Minimize the use of gravel to construct temporary roads. Unless approved in an operating plan, the Authorized Officer must be notified before the use of gravel to construct temporary roads. Any gravel placed when constructing temporary roads shall be removed by the permittee at final closure and reclamation. Royalties may be charged for FS gravel used.</p>
	Objective	To mitigate against soil erosion and to protect water quality.
	Source	SNF Transportation Management and MFRC guidelines
	<p>RDS-6 Stipulation CoA's road access.</p>	<p>All permittee caused resource damage on National Forest System Roads (OML 1-5), including rutting, is the responsibility of the permittee and shall be repaired at permittees expense.</p>
	Objective	To mitigate against soil erosion and to protect water quality.
	Source	SNF Transportation Management

1.2.1.9 Water

Water Quality		
Wetlands (see also soil stipulations for restrictions in lowland Ecological Land Types (wetlands))		
	<p>WAT-1 Stipulation CoA's Drill sites & road access</p>	<p>No fuel storage within a wetland. Fuel storage containers should be kept on an upland site. Absorbent mats or other absorbent material shall remain under the drilling rig and extra mats shall remain on site at all times to clean up any small spills from refueling. Any spills or releases of oils, fuels, or other toxic or hazardous material must be reported and remediated per applicable State and Federal Laws. For spills that are five or more gallons, the permit holders are required to contact the MPCA State Duty Officer.</p>
	Objective	Reduce risk of fuel release near water resources
	Source	SNF hydrology program management.
	<p>WAT-2 Stipulation CoA's Drill sites & road access</p>	<p>Avoid felling trees or depositing woody material from clearing operations into wetlands.</p>
	Objective	Avoid changing the structure and functions of wetlands
	Source	Forest Plan G-WS-14

Water Quality		
Drilling		
	WAT-3 Stipulation CoA's Drill sites & road access	If a drill hole boring is to be temporarily sealed, State of Minnesota regulations shall be followed. They include that the casing and cap must extend at least five feet above the potential high water within the regional flood level. High water levels would be identified and established on a case by case basis and determined by on the ground evidence of past high water
	Objective	Prevent surface and ground water interaction within the bore hole.
	Source	State of Minnesota Rules Section 4727
	WAT-4 Stipulation CoA's Drill sites & road access	Drilling shall be under the supervision of a licensed well driller in accordance with State regulations. The only additives to the drilling water shall be those permitted by the State of Minnesota. Each site shall be restored through surface grading, as needed.
	Objective	Ensure state and federal guidelines are understood and followed to ensure minimal effect of drilling activity
	Source	State of Minnesota Rules Section 4727, SNF minerals program management.
Sumps and drafting		
	WAT-5 Stipulation CoA's Drill sites & road access	Water cannot be withdrawn from streams that have less than 1 cubic feet per second flow rate. Cumulative withdrawal rates from streams shall be no more than 10% of the flow at the time of withdrawal. Cumulative withdrawal from wetlands, ponds, or lakes, cannot result in more than a 2-inch decrease in the water surface elevation in a season. Water intakes shall have a sieve opening no larger than 1/4 –inch to minimize impact to aquatic organisms.
	Objective	Maintain natural seasonal flow and volume of water resources; prevent uptake of organisms
	Source	SNF hydrology program management.
	WAT-6 Stipulation CoA's Drill sites & road access	Sumps to treat the water used in the drilling process shall be constructed (see FEIS Figure 3) as surface conditions allow. These sumps (as described FEIS Section 2.1.1.5) would contain and effectively treat the pump water. Drill cuttings and additives shall be allowed to sufficiently settle out of the drill water prior to backfilling the sump. No sump pits shall be allowed for drilling in wetlands and re-circulation tanks would be required. Recirculation tanks shall also be required where sumps cannot be constructed (such as in bedrock).
	Objective	Reduce the risk of untreated drill water from interacting with wetlands or water resources
	Source	State of Minnesota Rules Section 4727, SNF hydrology program management.
	WAT-7 Stipulation CoA's Drill sites & road access	Streams shall not be dammed or dredged or otherwise modified for drafting purposes.
	Objective	Maintain water flow and avoid in-stream erosion and sedimentation
	Source	SNF hydrology program management
Road construction and use		
	WAT-8 Stipulation CoA's Drill sites & road access	Log mats placed for the crossing of wetlands (if used) shall be removed once they are no longer needed. A setback of at least 100 ft shall be maintained for drill pad disturbance from all lakes, open water wetlands, and perennial streams and rivers.
	Objective	Prevent erosion, compaction, and rutting in wetlands that could lead to water quality impairments
	Source	SNF hydrology program management.

Water Quality		
Brackish water		
WAT-9 Stipulation		Boreholes within 500 feet of an existing well that is completed in bedrock shall be permanently abandoned in accordance with Minnesota Department of Health (MDH) regulations within one week of removing the core.
Objective		Avoid introduction of high saline waters to ground water resources used for residential water supply.
Source		SNF hydrology program management
Modification or Waiver		<p><u>Option #1:</u> The hole can be temporarily abandoned in accordance with MDH regulations if it is tested for chloride after the core is removed and found to contain chloride levels below 250 mg/L. If chloride levels above 250 mg/L are found, the hole shall be permanently abandoned in accordance with Minnesota Department of Health (MDH) regulations within one week of removing the core.</p> <p><u>Option #2:</u> The hole can be temporarily abandoned in accordance with MDH regulations if it is cased to an elevation 50 ft below the deepest well that is located within 500 ft of the subject hole.</p>
Wild Rice		
WAT-10 Stipulation CoA's road access		Minimize impacts to wild rice during landing construction by moving landings to avoid concentrations of wild rice.
Objective		Reduce risk of impacts to wild rice
Source		SNF botany program management
WAT-11 Stipulation CoA's Drill sites		Water for drilling operations shall not be withdrawn from lakes less than 50 acres if the lake is an inventoried wild rice lake.
Objective		Reduce risk of impacts to wild rice
Source		SNF botany program management
Stream Crossings		
WAT-12 Stipulation CoA's road access		Temporary stream crossings will follow, at a minimum, Minnesota Forest Resources Council (MFRC) Voluntary Site-Level Forest Management Guidelines for water crossings and cross road drainage (MFRC 2005). All temporary culverts and floodplain fill shall be completely removed upon final reclamation.
Objective		Assure that organisms, water, sediment, and debris freely and naturally move through a stream crossing during and after operations
Source		SNF hydrology program management.

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1.2.1.10 Aquatic Species

Aquatic Species		
Non-native invasive species		
	AQS-1 Stipulation CoA's water sources	<p>The following measures to control or prevent the spread of non native invasive aquatic species shall be followed:</p> <ol style="list-style-type: none"> There shall be no back-flushing water from the draft tank back into water source to avoid cross-contamination of aquatic invasive species. If there is a need to empty the draft tank, it may be permitted in an upland area, where no overland surface flow reaches water bodies or wetlands during back-flushing. Do not dump water from one stream or lake into another. Avoid sucking organic and bottom material into water intakes when pumping from streams or ponds Minimize driving equipment through or wading across water bodies whenever possible If a water source is known to have NNIS present, that water source shall be avoided. Water sources need to be approved by the SNF prior to use to avoid spread of NNIS
	Objective	Prevent or slow the spread of aquatic invasive species to non-infested water
	Source	SNF fisheries program management.
	AQS-2 Stipulation CoA's water sources	<p>Disinfect all pump and water tank equipment prior to entry on the SNF as well as before moving to a new site on the SNF.</p> <ol style="list-style-type: none"> Sanitation will consist of a 5 percent solution of quaternary ammonium compounds (6.4 oz per gallon of water) or its equivalent will destroy most if not all target invasive organisms. Quaternary ammonium compounds are safe for gear and remain effective for at least a day if not overly diluted or muddied. Use sprayers or similar cleaning devices to clean all water tanks and sump liners. The quaternary ammonium solution must be in contact with the surface being sanitized for at least 10 minutes and then rinsed. For water pumps circulate through a 5 percent solution of quaternary ammonium compounds from a disinfected tank for 10 minutes.
	Objective	Eliminate aquatic invasive species that linger on or in equipment
	Source	SNF fisheries program management.

1.2.1.11 Non-native Invasive Species

Non-native invasive species		
Disturbance		
	NNIS-1 Stipulation CoA's Drill sites & road access	Where possible, core drilling sites and road access shall be confined to areas of previous disturbance. Retain shade and native vegetation in and around prospecting activity to the maximum extent possible to suppress non-native invasive plants and prevent their establishment and growth.
	Objective	During project implementation, reduce the spread of non-native invasive species.
	Source	Forest Plan G WL-23
	NNIS-2 Stipulation CoA's Drill sites & road access	Gravel sources shall be approved by the SNF prior to use to avoid spread of NNIS.
	Objective	To reduce the introduction and spread of NNIS
	Source	Forest Plan O-WL-37

Non-native invasive species		
Equipment cleaning requirements		
	NNIS-3 Stipulation CoA for all heavy equipment and vehicles	<p>For external equipment surfaces:</p> <ul style="list-style-type: none"> a. Prior to movement onto the SNF, all off-road equipment (bulldozers, excavators, drill rigs) shall be cleaned such that the equipment is free of non-native invasive species, soil, seeds, vegetative matter, non-native invasive species or their propagation structures (spores, eggs, etc.) b. Prior to moving equipment from a drill site known to be infested with NNIS to a new drill site, equipment shall be cleaned as described above. c. The companies shall contact the SNF to verify this has been completed and give them the opportunity to complete an inspection of heavy equipment before they are transported onto National Forest System lands. <p>For internal equipment surfaces:</p> <ul style="list-style-type: none"> d. Sweep vehicle cabs and deposit refuse in waste receptacles prior to movement onto the SNF.
	Objective	To minimize the introduction of NNIS
	Source	Forest Plan O-WL-37
Revegetation		
	NNIS-4 Stipulation CoA's Drill sites & road access	If seeding for revegetation is required, only native or desired non-native species that are certified noxious weed free seed shall be planted.
	Objective	To minimize the introduction of NNIS
	Source	Forest Plan G-WS-1, G-WL-23

1.2.1.12 Reclamation Requirements

Reclamation		
General		
	RECL-1 Stipulation CoA's Drill sites & road access	All final reclamation, including permanent abandonment of drill holes and final reclamation and closure of access routes and drill pads, must be completed by the end of the prospecting permit's six year total timeframe and not extended into the lease application phase.
	Objective	To assure reclamation is completed during the life of a permit's timeframe of a total of 6 years.
	Source	SNF mineral program management
	Modification or waiver	The agencies may extend final reclamation if a lease application is submitted which would also trigger additional NEPA analysis.

Reclamation		
Interim Reclamation		
	<p>RECL-2 Stipulation CoA's Drill sites & road access</p>	<p>This reclamation is completed at the end of the yearly drilling season or when the work is completed and the sites are no longer needed, whichever comes first.</p> <ol style="list-style-type: none"> Remove all equipment, trash, and other materials; Temporarily seal the exploratory borings in accordance with state regulations. Collect all drill cuttings and place them in the sump pits before they are backfilled. Backfill sump pits (no recirculation tank was used), with stockpiled soil. The topsoil, typically the upper six inches of soil, must be removed and stockpiled separately when constructing the sump pits. The reserved topsoil must be replaced over the disturbed area as the final step in returning the surface to its original contours. Stockpile topsoil where leveling temporary roads deeper than six inches. Use proper erosion control methods as needed for the stockpiles. BMP. Re-contour the disturbed sites to blend in with the natural topography and to stabilize the soils; and apply stockpiled topsoil as required. Remove invasive plants present on the site. Pull back brush and slash and spread it over all disturbed sites. Seed disturbed areas, if deemed necessary by the Authorizing Officer, with a native plant seed mix made up of grasses, shrubs, and forbs. Maintain access routes and other disturbed sites to assure the soils are stabilized and erosion will not occur during interim closure. Close temporary road entrances with methods that restrict access by motorized vehicles (examples: gates and boulders are acceptable, but berms of soil material are not allowed for access closures). All other site access, including barge landings, snowmobile and ATV access and vegetation clearing for geophysics or other mineral investigation, shall follow Forest Plan direction on temporary roads and road decommissioning (Forest Plan, page 2-50) and as illustrated in Appendix D as much as possible so the access is not open to other potential users and motorized vehicles.
	Objective	To protect forest resources
	Source	SNF mineral program management.

Reclamation		
Final Reclamation		
RECL-3 Stipulation CoA's Drill sites & road access		<p>Final reclamation This reclamation is completed when the sites are no longer needed and before the prospecting permit expires.</p> <ol style="list-style-type: none"> Remove all equipment, trash, and other materials; All stakes and flagging used to mark gridlines or other locations must be removed after they are no longer needed. Permanently seal borings as per Minnesota Department of Health Rules. Collect all drill cuttings and placing them in the sump pits before they are backfilled; The topsoil, typically the upper six inches of soil, must be removed and stockpiled separately when constructing the sump pits. The reserved topsoil must be replaced over the disturbed area as the final step in returning the surface to its original contours. Stockpile topsoil where leveling temporary roads deeper than six inches. Use proper erosion control methods as needed for the stockpiles. BMP Backfill sump pits (if no recirculation tank was used) with stockpiled soil; Re-contour the disturbed sites to blend in with the natural topography and to stabilize the soils; Remove invasive plants present on the site Pull back brush and slash and spread it over all disturbed sites; Seed disturbed areas, if deemed necessary by the Authorizing Officer, with a native plant seed mix made up of grasses, shrubs, and forbs; As soon as access use is no longer needed, reclaim temporary roads with methods that effectively eliminate access by motorized vehicles, stabilize soils, re-establish drainages, and follow Forest Plan direction (Forest Plan, page 2-50) and as illustrated in Appendix D. Effective decommissioning should blend in and not stand out with the surroundings. At a minimum, the sight distance of the road shall be obliterated and woody vegetation plantings should be included. Berms of soil material are not allowed for access closures. The best closures should be effective and aesthetic. All other site access, including barge landings, snowmobile and ATV access and vegetation clearing for geophysics or other mineral investigation, shall follow this direction as much as possible including eliminating motorized access.
	Objective	To protect and restore forest resources
	Source	SNF mineral program management.

1.3 Forest Service Stipulations for Special Use Permits

The following stipulations would apply to special use permits issued by the Forest Service for temporary road construction and management in areas outside the prospecting permits. The Standard Terms and Conditions in Form FS 2700-4c (v. 05/09) would apply. In addition, the following special terms and conditions from the Superior National Forest would apply to minimize impacts from temporary road construction and use:

1. The Forest Service may suspend all or any part of the construction/reconstruction activities and/or revoke or terminate the special-use authorization without administrative proceedings upon breach of any of the conditions herein.

Prior to the suspension, revocations, or termination, the Forest Service shall give the Holder written notice of the grounds for such action and reasonable time to cure any noncompliance. However, the Forest Service may require immediate temporary suspension of all or any part of the activities when the Forest Service determines it is necessary to protect the public health, safety, or the environment. If requested by the Holder, the superior to the officer ordering the suspension, revocations, or termination shall arrange within 10 days of the request for an on-the-ground review of the conditions with the Holder. The superior shall affirm, modify, or cancel the temporary suspension as soon after the review as possible.

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2. The Holder shall take reasonable precautions to protect all public land survey monuments and accessories, private property corners, and forest boundary markers. In the event that any such land markers or monuments are damaged or destroyed, the Holder shall re-establish or reference the corner in accordance with directions and procedures to be furnished by the Forest Service.
3. The Holder shall maintain a muffler or spark arrester satisfactory to the Forest Service on the exhausts of all trucks and tractors or other internal combustion engines used in connection with this project.
4. During the fire season, as determined by the Forest Service, the Holder shall furnish and maintain in serviceable condition a fire-tool box and fire tools to be used only for suppression of forest fires. The toolbox shall be located at the site and shall contain the tools necessary for fire suppression as agreed upon by the Holder and the Forest Service.
5. The Holder shall equip each gasoline power saw at all times with a spark-arresting muffler, in good working condition and adapted to that machine. During periods of dangerous fire weather, as determined by the Forest service, the holder must transport and keep with each power saw at all times such fire tools and portable extinguishers as specified and to take other precautionary measures as may be required by the Forest Service.
6. The Forest Supervisor has determined that at this time no performance bond will be required for this permit; provided, however, that at such time as the Forest Supervisor determines that bonding is needed to protect the resources, not to exceed \$1,000.00 within 30 days of notification by certified mail. Failure to post the required bond or cash in lieu of bond within the required 30 days will result in the termination of the authorizing permit.
7. To insure against unauthorized public use of the permitted road without interference with the Government's use for administrative purposes, the permittee is authorized to install and/or sign a gate in accordance with design and location approved in advance by the Forest Officer in charge. Once installed, the custody, control, and safety maintenance of said gate is the sole duty and responsibility of the holder.
8. Prior to any road clearing/construction, the USDA Forest Service must assess the timber value, and payment must be made by the permittee.
9. The road design specification, construction and use shall comply with the following stipulations listed in Section 2.4.3 as they apply to temporary road management: GA-1, GA-5, LOC-1 through LOC-4, RDS-1, 2, 4 and 5, RV-9, HR-1 through HR-5, SOIL-1, 2, 3, 5, 6, and 7, TES-1 and 2, RFSS-1 through RFSS-19, NNIS-1 through NNIS-4, WAT-8, WAT-12, RECL-2 and RECL-3.

1.4 Bureau of Land Management

The following are BLM requirements considered in the EIS. These are not included as a decision made in this Forest Service Record of Decision but are displayed here for the reader's convenience.

1. **Bond.** The permittee shall file with the appropriate BLM office a permit bond prior to permit issuance in the amount of \$1,000 for the use and benefit of the United States to ensure surface and sub-surface reclamation. An increase in the amount of the permit bond maybe required upon approval of a final operating plan or at any other time during the life of the permit, to reflect changed conditions.

2. Extension. To qualify for an extension of the permit, the permittee must drill or excavate at least one exploration hole, trench or test pit, or perform other comparable exploration, e.g., substantial amounts of work described in stipulation No. 4. The requirements may be waived by the Authorized Officer if the permittee is unable to comply due to conditions beyond the permittee's control or for other reason provided by 43 CFR 3562.9-1.
3. Supervision. The Authorized Officer (Field Manager) located at the BLM- Eastern States, Northeastern States Field Office, 626 East Wisconsin Avenue, Suite 200, Milwaukee, Wisconsin 53202-4617, is responsible for the review and approval of operating plans and modification thereof, inspection and enforcement of requirements, and is the recipient of quarterly reports.
4. Exploration Resulting in No Surface Disturbance. Prior to conducting activities on the permit area which do not disturb the surface or surface resources, e.g., geological mapping, geochemical surveys, ground and aerial geophysical surveys, and sampling of outcrops and old workings, the permittee shall notify the Authorized Officer, in writing, when such activities will commence, and thereafter furnish the Authorized Officer quarterly reports on the progress and results of such activities, including maps, narrative, and analyses as available on the date of the reports.
5. Exploration Resulting in Surface or Surface Resource Disturbance. Prior to conducting activities which disturb the surface and surface resources on the permit area, the permittee will submit to the Authorized Officer for review and approval two copies of an operating plan or of additional information which, when added to the exploration plan submitted prior to issuance of the permit, will provide the Bureau of Land Management with sufficient information to show in detail the proposed exploration, prospecting, or testing to be conducted. After the operating plan is approved, the permittee shall furnish the Authorized Officer a written notice of when the approved activities will commence, and thereafter furnish the Authorized Officer annual reports on the progress and results of the exploration. The annual reports shall include maps, logs, analyses, cross sections, or other graphic illustrations showing the geologic and physical mode of occurrence of the deposit as available on the date of the report period. Operating plans may be changed by mutual consent of the Authorized Officer and the operator at any time to adjust to changed conditions or to correct an oversight. To obtain approval of a changed or supplemental plan, the operator shall submit a written statement of the proposed changes or supplement and the justification for the changes proposed. If circumstances warrant, or if development of an operating plan for the entire operation is dependent upon unknown factors which cannot or will not be determined except during the progress of the exploration, a general plan may be approved and supplemented from time to time with site-specific information. The operator shall not, however, perform any exploration except under an approved operating plan.
6. Discovery Data. In the event permittee applies for a noncompetitive or preference right lease, the said quarterly reports and supplementary data required by the Authorized Officer will be used to determine whether or not the permittee has discovered a valuable deposit. The supplementary data will indicate the extent of the deposit, the physical and geological mode of occurrence, the average grade as established prior to permit exploration, the anticipated mining and processing methods, the anticipated location, kind and extent of necessary surface disturbance and measures to be taken to reclaim that disturbance. Valuable deposit is a deposit of character that further expenditure of labor means is justified with a reasonable expectation, not necessarily a demonstrated certainty, of success in developing a valuable mine.
7. The permittee shall file a report with the BLM upon the conclusion of all work, specifying the methods and materials used to properly plug and abandon any drill holes and/or the types of material and methods used to restore any other excavations required to be restored by law, regulation, stipulation or permit provision. In addition, the permittee shall provide in the report the name and telephone number of the person to contact in order to arrange for an on-site inspection of the

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permitted area. A negative report is required and an inspection is required regardless of the amount and type of work performed.

8. Any modifications to the operating plan, including timeframes for operations, must be submitted to the BLM for concurrence prior to implementation.
9. BLM concurrence of a permit or operating plan does not relieve the company of their responsibility to comply with applicable state, federal or local laws, rules, or regulations or ordinances.
10. Modification of approved drill sites, access road locations and other surface disturbing activities in the operating plan may be modified after Forest Service consultation and BLM review and approval.

Attachment 3: Monitoring and Evaluation Federal Hardrock Minerals Prospecting Permits Forest Service Record of Decision

Introduction

Monitoring of activities would be implemented while the prospecting permits are active and after reclamation where specifically stated. Monitoring would occur as permitted by personnel, budget and time available.

Monitoring and evaluation would help ensure that stipulations and required mitigation are carried out; that the goals and objectives of the proposal are achieved; and that assumptions and models used in the analysis remain valid. Monitoring would generally occur during project activities, and at final reclamation to ensure that necessary stipulations for both of these phases are met. Pre-exploration data collection may be necessary for some resources to assess baseline conditions.

Monitoring Items

There are nine monitoring items associated with the project. In addition to these nine items, the ongoing Superior NF monitoring program will also provide useful information to assess the implementation of this project. Scheduling of all monitoring activities, including monitoring and evaluation of minerals exploration activities, would occur at the beginning of each calendar year.

Noise

Objectives

Document sound levels at receptor locations including in the BWCAW that may be affected by drilling noise. Include monitoring for compliance with Stipulation RV-3 in Attachment 2.

Protocols and Methods

Parameters

Collect background and activity sound levels at known distances between sound source and receptor (e.g. campground, residence, wilderness boundary).

Methodology

Use sound monitoring equipment to measure ambient sound levels and sound levels introduced by project activities, for multiple day and night recordings when possible. Attempt to monitor multiple times to capture weather and location variability.

Complete measurements with consideration of methods described in Minnesota Rules on Noise at 7030.0060 Measurement Methodology. When measuring drill rig sound levels at the source, measure drill rigs at four 50 foot measurements, evenly spaced at 90 degrees as allowed by site conditions.

Location

Receptors located near drilling sites, including developed campgrounds, resorts, residences, dispersed campsites, and campsites in the BWCAW (see FEIS Section 3.1 for location of receptors and potential distances from drill site to receptor to evaluate for compliance with Stipulation RV-3).

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Frequency/duration

As needed in locations with the potential for noise impacts. Attempt to monitor multiple times to capture weather and location variability and changes in vegetation (e.g. leaf on/leaf off).

Data Storage

District and Supervisor's Office files

Analysis Report

Field documentation and in the SNF Monitoring Report

Personnel

Biological Technicians, Geologist and/or Monitoring Coordinator

Responsible Individual

Geologist or Monitoring Coordinator

Adaptive Management

Change monitoring sites and techniques based on new information in order to better capture potential sound impacts. Work with operators as needed to achieve required mitigations.

Soil and Water

Objectives

Document impacts of minerals exploration activities (if any) to soil and water resources per SOIL and WAT stipulations in Attachment 2.

Protocols and Methods

Parameters

Visual evidence of correct sump operation and effectiveness, and potential rutting or erosion from temporary road construction and use. Volume of water from streams, lakes and ponds for drilling operation. Flow in streams used for source water. Water chemistry of the borehole and / or sump chemistry. Inspection of the exploratory borehole to ensure it is not a flowing artesian hole.

Methodology

Photo documentation would occur with field visits to drill pads and temporary roads. The number of field visits each year is variable but often is at least once per month. Volume of water used for drilling operation will be important to monitor when smaller (not Birch Lake or South Kawishiwi River, etc.) is used as a source. The source being used will be confirmed. Flow in smaller streams will be measured or visually inspected to confirm flow is in excess of 1 cfs. Water chemistry including the pH, conductivity, and chloride concentration may be collected during the site visit. This water quality information will be used as general information in the project file.

Location

Drill pads and temporary roads where project activities would occur. Flow rates of streams would be confirmed by visits to the source stream.

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Frequency/duration

Monitoring would occur during drilling project activities, and when drilling is complete to inspect interim and final reclamation.

Data Storage

District and Supervisor's Office files

Analysis Report

Field documentation and on-site photographs before drill pad or temporary road construction, during implementation and after final reclamation.

Personnel

Hydrologic Technician, Biological Science Technician, Ecologist, Soil Scientist and/or Geologist.

Responsible Individual

SNF Geologist, Soil Scientist, Hydrologist or Ecologist.

Adaptive Management

Work with operators to minimize and eliminate any soil or water resource damage discovered during project activities to ensure compliance with stipulations (SOIL and WAT Stipulations in Attachment 2).

Road/Trail Closure Effectiveness

Objectives

Determine the implementation and effectiveness of road closures and reclamation and practices in prohibiting illegal motorized use per RDS Stipulations in Attachment 2.

Protocols and Methods

Parameters

(a) Visual evidence that road closure practices such as signing, gating, rock placement, and other travel barriers are implemented. (b) Visual evidence that road decommissioning practices as outlined in Appendix F-1 of FEIS and Forest Plan G-TS-16 are implemented. (c) Visual evidence that unauthorized motorized travel is not occurring on closed or decommissioned roads.

Methodology

Monitoring will be accomplished through field verification of the planned road closures including:

- Establish photo points at beginning, mid way, and termination of closed or reclaimed road.
- Visually document implementation or establishment of closure practices (gates, berms, rocks, etc) or road decommissioning practices as described under Forest Plan G-TS-16 and Appendix F pages F-15 through F-17.
- Visually document if closures and/or decommissioning is preventing motorized travel on road. If unauthorized travel is occurring, document tracks and resource vegetation with photos and notes.

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Location

Temporary roads constructed or utilized in this project. Pay particular attention to any segments within ½ mile of the wilderness.

Frequency/duration

Monitor during project implementation, and after project activities are complete. Attempt to assess closure/reclamation effectiveness prior to hunting season as the majority of recreation motor vehicle (RMV) travel occurs during this period.

Data Storage

District and Supervisor's Office files

Analysis Report

Prepare progress report at end of each calendar year.

Personnel

Bio-Technician and/or Geologist

Responsible Individual

Geologist or Recreation Program Manager or Forest Monitoring Coordinator

Adaptive Management

If road closure or decommissioning practices are determined to be unsuccessful or ineffective, they will be redone or revised (RDS Stipulations in Attachment 2).

Non Native Invasive Species (NNIS)

Establishment and spread of NNIS infestations, particularly routes adjacent to the BWCAW

Objectives

Avoid or minimize the establishment and spread of non-native plant and aquatics infestation in the project area per NNIS and AQS stipulations in Attachment 2.

Protocols and Methods

Parameters

(a) Visual evidence of new and expanding NNIS populations (b) Visual evidence of subsequent corrective actions (pulling, spraying etc) (c) Compliance of cleaning heavy equipment per stipulation NNIS-3.

Methodology

Conduct baseline or pre-activity and post activity Monitor a sample of roads and drill pads to assess establishment and spread of NNIS attributed to mining activities. Focus on roads near BWCAW. Treat NNIS if found and monitor effectiveness of treatments.

Location

(1) Known problem areas (2) Within the vicinity of roads and drill pads particularly near the BWCAW.

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Frequency/duration

Annually for at least 3 years after drill pads and temporary roads are built, and after reclamation.

Data Storage

District and Supervisor's Office files

Analysis Report

Prepare progress report at end of each fiscal year.

Personnel

Bio-technicians and Geologist

Responsible Individual

Geologist or Forest Plant Ecologist or Biological Technician

Adaptive Management

If NNIS establishment and expansion resulting from minerals exploration becomes a management issue, corrective actions will be pursued (e.g. pulling and spraying weeds). (NNIS Stipulations in Attachment 2)

Safety

Objectives

Ensure implementation of safety measures by mineral exploration operators as defined in the stipulations (Attachment 2, Stipulation GA-5).

Protocols and Methods

Parameters

Visual and documentary evidence that safety measures (e.g. signage, fire control measures and keeping unauthorized personnel out of drilling sites) are being implemented appropriately

Methodology

Monitoring of drill pads and temporary roads during project activities during field visits (usually at least once per month). Monitor for proper signage used per Stipulation GA-5.

Location

Drill pads and temporary roads where project activities occur.

Frequency/duration

When project activities are occurring, usually once a month, as needed.

Data Storage

Forest and district files

Analysis Report

Progress report will be completed at the end of each fiscal year.

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Personnel

Engineering technicians and/or Geologist

Responsible Individual

Geologist, Forest Monitoring Coordinator, Forest Safety Officer or Zone Engineers

Adaptive Management

Forest personnel will adapt safety measures depending on public input and if safety issues arise. Ensure Stipulation GA-5 is implemented.

Threatened, endangered, and sensitive wildlife species

Objectives

Avoid or minimize disturbance to threatened, endangered, sensitive, and other species of interest and their breeding locations within the project area per TES and RFSS Stipulations in Section 2.4.3.

Protocols and Methods

Parameters

(a) Visual evidence of new and existing large raptor nests (b) Visual evidence of breeding activity.

Methodology

Use the Forest Service's current survey protocol for each species.

Location

(1) Known breeding locations and territories (2) Surveys for unknown breeding locations in suitable habitat to at least 660 feet from project activities.

Frequency/duration

The breeding season prior to permit operations and annually during the breeding season while the permit is active.

Data Storage

District and Supervisor's Office files

Analysis Report

Report breeding season sightings within 24 hours to District biologist. Prepare progress report at end of each fiscal year.

Personnel

Wildlife technicians and/or biologists

Responsible Individual

Geologist or District Wildlife Biologist

Adaptive Management

Mitigate effects through timing or location of activities to avoid disturbance (TES and RFSS Stipulations in Chapter 2).

Visuals

Objectives

Minimize impacts to visual resources per Stipulations RV-3 through RV-6.

Protocols and Methods

Parameters

Monitor removal of equipment, flagging, tools, etc at the completion of exploratory drilling activities.
Monitor location of drill site in relation to any mitigation for visual impacts approved in operating plans.

Methodology

Location

In High and Moderate Scenic Integrity Objective Areas, and at drill sites. Focus on drill sites near visual resources of particular interest (e.g. scenic trails, campgrounds, adjacent to BWCAW).

Frequency/duration

Sample of drill sites each year.

Data Storage

District and Forest monitoring files

Analysis Report

Summary in Forest Monitoring Report

Personnel

Recreation technicians, monitoring technicians

Responsible Individual

Geologist

Adaptive Management

Work with permittees to meet the objectives of stipulations if deviations are found during monitoring.

Heritage

Objectives

Ensure compliance with HR Stipulations in Attachment 2 to avoid impacts to heritage resources.

Protocols and Methods

Parameters

Known locations, unknown locations, and sites found during implementation per HR Stipulations in Attachment 2.

Methodology

Known site locations will be field verified and boundary flagged prior to implementation. High probability locations will be surveyed prior to implementation, and if located, sites will be boundary flagged for avoidance. If new heritage resources are discovered during implementation, the Forest Archaeologist will be notified and appropriate mitigations will be developed.

Frequency/duration

For known and unknown locations, before ground disturbing activities occur. For sites discovered during implementation, as needed.

Data Storage

Forest Archaeology Files

Analysis Report

SHPO Report, summary in Forest Monitoring Report

Personnel

Archaeologist, Archaeologist Technician

Responsible Individual

Archaeologist

Adaptive Management

Stipulation HR-3 (Sites found during implementation) provides methodology for adaptive management to avoid impacts to heritage resources.

Location and Extent of Areas to be Occupied

Objectives

Follow LOC stipulations in Attachment 2 for location and extent of areas to be occupied. This may be relevant for any permits that include acreage that contains Research Natural Areas (RNA), Unique Biological Areas (UBA). In addition, consider permits adjacent to the Boundary Waters Canoe Area Wilderness (BWCAW), Mining Protection Area (MPA) and Wild River Segments. Finally, this is relevant for developed recreation facilities where No Surface Occupancy is allowed (Stipulation RV-7).

Protocols and Methods

Parameters

Identify location of surface occupancy by permittees in relation to RNA, UBA, BWCAW, MPA, Wild River Segments and developed recreation facilities.

Methodology

Monitor surface occupancy locations with Global Positioning System (GPS) devices and/or surveying equipment.

Location

Proposed activities in permit areas that are near (within 100 feet) of Management Areas which are No Surface Occupancy (RNA and UBA), which prohibit exploration (BWCAW, MPA and Wild River Segments), and developed recreation facilities.

Frequency/duration

When operating plans propose activities adjacent to RNA, UBA, BWCAW, MPA, Wild River Segments or developed recreation facilities.

Data Storage

District and Supervisor's Office files

Analysis Report

Operating plan files, summary in Forest Monitoring Report Minerals Section

Personnel

Geologist, Monitoring Technicians, Surveyors

Responsible Individual

Geologist

Adaptive Management

If any surface occupancy is discovered in prohibited areas, inform the permittee, require remediation of surface impacts, and identify and correct any problems in boundary identification to prevent a recurrence.

Reclamation

Objectives

Ensure that interim and final reclamation is effectively completed per RECL Stipulations in Attachment 2. Monitoring for other resources (Road/Trail Closure, Soil/Water, and Invasive Species) is also relevant for reclamation efforts.

Protocols and Methods

Parameters

Parameters include road closure or decommissioning, backfill of sumps, recontouring, removal of equipment, removal of invasive species, planting of only native vegetation to reclaim sites, and other tasks. See Stipulations RECL-2 and RECL-3 in Attachment 2.

Methodology

Site visits in which visual review and photographs document compliance with necessary reclamation procedures.

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Location

Drill sites and access routes.

Frequency/duration

During and after interim and final reclamation work is completed.

Data Storage

District and Supervisor's Office files

Analysis Report

Operating plan files, summary in Forest Monitoring Report Minerals Section

Personnel

Geologist, Monitoring Technicians

Responsible Individual

Geologist

Adaptive Management

If reclamation is not completed per RECL Stipulations in Attachment 2, work with companies to achieve compliance. The Bureau of Land Management may utilize a bond to complete reclamation work if necessary (see Attachment 2, BLM Stipulation #1).

Attachment 10: MN DNR FIM Wetland Identification Procedure

Matt Tyler, September 2012

Aerial photo interpretation and local experience in the Lax Lake area suggested that the National Wetlands Inventory (NWI) layer available from the MN DNR Data Deli (<http://deli.dnr.state.mn.us/>) did not adequately reflect the wetlands occurring in the proposed Lax Lake mineral lease area. Additional wetlands were identified on MN DNR lands using Cooperative Stand Assessment (CSA) data contained in the MN DNR Forest Inventory & Management (FIM) layers also available from the MN DNR Data Deli.

FIM Polygons that met the following criteria were identified and mapped as wetlands:

1. Physiographic Score (PHYS field) of 4 ("hydromesic") or 5 ("Hydric").
2. MN Cover Type code in the table below.

MN Cover Type Code	MN Cover Type Abbreviation	MN Cover Type Description
1	Ash	Ash
6	Wil	Willow
9	LH	Lowland Hardwoods
71	BSL	Black Spruce-Lowland
72	T	Tamarack
73	C	White Cedar
75	SX	Stagnant Spruce
76	TX	Stagnant Tamarack
77	CX	Stagnant Cedar
83	LG	Lowland Grass
85	LB	Lowland Brush
96	L	Permanent Water
97	LF	Nonpermanent Water
98	Mh	Marsh
99	Ms	Muskeg

Lake County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
L-04-056-08				
	NE1/4-NE1/4	35.65	TAX LANDS	YES
	NW1/4-NE1/4	35.27	TAX LANDS	YES
	S1/2-NE1/4	80.00	TAX LANDS	YES
	NE1/4-NW1/4	34.89	TAX LANDS	NO
	NW1/4-NW1/4	34.50	TAX LANDS	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	W1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4-SW1/4	40.00	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	YES

		500.31		
	Special features or uses: designated trout stream			
L-05-056-08				
	NE1/4-NE1/4	34.34	SCHOOL	YES
	NE1/4-NW1/4	34.47	TAX LANDS	YES
	NW1/4-NW1/4	34.53	TAX LANDS	YES
	SW1/4-NW1/4	40.00	GENERAL	YES
	N1/2-SW1/4	80.00	GENERAL	YES
	E1/2-SE1/4	80.00	TAX LANDS	YES
	W1/2-SE1/4	80.00	GENERAL	YES

		383.34		
	Special features or uses: designated trout stream; fisheries management sites (SW1/4-NW1/4, N1/2-SW1/4, W1/2-SE1/4); the North Shore Trail; natural heritage features			
L-06-056-08				
	NE1/4-NE1/4	34.58	GENERAL	YES
	NW1/4-NE1/4	34.62	GENERAL	YES
	S1/2-NE1/4	80.00	GENERAL	YES
	NE1/4-NW1/4	34.66	TAX LANDS	YES
	NW1/4-NW1/4	30.52	TAX LANDS	YES
	SW1/4-NW1/4	35.70	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	E1/2-SW1/4	80.00	TAX LANDS	YES
	NW1/4-SW1/4	35.22	TAX LANDS	YES
	SW1/4-SW1/4	36.74	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	YES

		602.04		
	Special features or uses: designated trout streams; fisheries management sites (NE1/4); the North Shore Trail			

Lake County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
L-07-056-08				
	NE1/4	160.00	TAX LANDS	YES
	E1/2-NW1/4	80.00	TAX LANDS	YES
	NW1/4-NW1/4	37.03	TAX LANDS	YES
	SW1/4-NW1/4	37.09	TAX LANDS	YES
	E1/2-SW1/4	80.00	TAX LANDS	YES
	NW1/4-SW1/4	37.15	TAX LANDS	YES
	SW1/4-SW1/4	37.20	TAX LANDS	YES
	NE1/4-SE1/4	40.00	TAX LANDS	YES
	NW1/4-SE1/4	40.00	SCHOOL	YES
	S1/2-SE1/4	80.00	TAX LANDS	YES

		628.47		
	Special features or uses: designated trout stream; the North Shore Trail			
L-08-056-08				
	SW1/4-NE1/4	40.00	TAX LANDS	YES
	W1/2-NW1/4	80.00	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	N1/2-SW1/4	80.00	TAX LANDS	YES
	SW1/4-SW1/4	40.00	TAX LANDS	YES
	SE1/4	160.00	TAX LANDS	YES

		440.00		
	Special features or uses: designated trout streams; the North Shore Trail			
L-09-056-08				
	NE1/4-NW1/4	40.00	SCHOOL	YES
	SW1/4-NW1/4	40.00	GENERAL	YES
	SW1/4	160.00	GENERAL	YES
	E1/2-SE1/4	80.00	TAX LANDS	YES

		320.00		
	Special features or uses: designated trout stream; fisheries management sites (SW1/4-NW1/4, SW1/4)			
L-16-056-08				
	FULL SECTION	640.00	SCHOOL	YES

		640.00		
	Special features or uses: designated trout stream; the North Shore Trail			

Lake County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
L-17-056-08				
	NE1/4	160.00	TAX LANDS	YES
	NW1/4-NW1/4	40.00	TAX LANDS	YES
	SW1/4-NW1/4	40.00	TAX LANDS	NO
	SW1/4	160.00	TAX LANDS	NO
	NE1/4-SE1/4	40.00	TAX LANDS	YES
	NW1/4-SE1/4	40.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		520.00		
	Special features or uses: designated trout stream; the North Shore Trail			
L-18-056-08				
	NE1/4-NE1/4	40.00	TAX LANDS	YES
	SW1/4-NE1/4	40.00	TAX LANDS	YES
	SE1/4-NE1/4	40.00	TAX LANDS	NO
	E1/2-NW1/4	80.00	TAX LANDS	YES
	NW1/4-NW1/4	37.44	TAX LANDS	YES
	SW1/4-NW1/4	37.87	SCHOOL	YES
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	NE1/4-SE1/4	40.00	SCHOOL	NO
	NW1/4-SE1/4	40.00	TAX LANDS	YES
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		435.31		
	Special features or uses: designated trout stream			

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
SL-01-056-14				
	LOT02 (NW1/4-NE1/4)	41.75	TAX LANDS	YES
	SW1/4-NE1/4	40.00	TAX LANDS	YES
	LOT03 (NE1/4-NW1/4)	41.13	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	YES

		162.88		
SL-03-056-14				
	LOT04 (NW1/4-NW1/4)	39.97	TAX LANDS	YES
	SW1/4-NW1/4	40.00	TAX LANDS	YES
	NW1/4-SW1/4	40.00	TAX LANDS	YES
	SW1/4-SE1/4	40.00	TAX LANDS	YES

		159.97		
	Special features or uses: historic/archaeologic sites			
SL-04-056-14				
	SE1/4-NE1/4	40.00	TAX LANDS	YES

		40.00		
	Special features or uses: natural heritage features			
SL-05-056-14				
	LOT01 (NE1/4-NE1/4)	38.93	TAX LANDS	NO
	SE1/4-NE1/4	40.00	TAX LANDS	NO
	SE1/4-SW1/4	40.00	TAX LANDS	YES

		118.93		
	Special features or uses: historic/archaeologic sites			
SL-06-056-14				
	LOT01 (NE1/4-NE1/4)	37.00	TAX LANDS	NO
	LOT02 (NW1/4-NE1/4)	37.00	TAX LANDS	NO
	LOT06 (NW1/4-SW1/4)	42.62	SCHOOL	NO

		116.62		
	Special features or uses: historic/archaeologic sites			
SL-07-056-14				
	NE1/4-SE1/4	40.00	SCHOOL	YES
	S1/2-SE1/4	80.00	SCHOOL	YES

		120.00		

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
SL-08-056-14				
	S1/2-NE1/4	80.00	TAX LANDS	YES
	NE1/4-SW1/4	40.00	SCHOOL	YES
	S1/2-SW1/4	80.00	SCHOOL	YES

		200.00		
	Except the bed of Whiteface Reservoir (69-375P)			
	Special features or uses: historic/archaeologic sites			
SL-09-056-14				
	NW1/4-NW1/4, except 1 acre for school	39.00	TAX LANDS	YES

		39.00		
	Except the bed of Whiteface Reservoir (69-375P)			
SL-10-056-14				
	W1/2-NE1/4	80.00	TAX LANDS	YES
	E1/2-SW1/4	80.00	TAX LANDS	YES
	W1/2-SE1/4	80.00	TAX LANDS	YES

		240.00		
	Except the bed of Whiteface Reservoir (69-375P)			
SL-11-056-14				
	SE1/4-NE1/4	40.00	TAX LANDS	YES
	NE1/4-SE1/4	40.00	TAX LANDS	YES

		80.00		
	Special features or uses: historic/archaeologic sites			
SL-12-056-14				
	SW1/4-NE1/4	40.00	TAX LANDS	YES
	S1/2-NW1/4	80.00	TAX LANDS	YES
	N1/2-SW1/4	80.00	TAX LANDS	YES

		200.00		
SL-01-057-14				
	N1/2-SW1/4	80.00	SCHOOL	YES
	S1/2-SW1/4	80.00	TAX LANDS	YES
	SW1/4-SE1/4	40.00	TAX LANDS	YES

		200.00		

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
SL-02-057-14				
	SW1/4-NE1/4	40.00	NREG MINS	NO
	N1/2-SW1/4	80.00	TAX LANDS	YES
	SE1/4-SW1/4	40.00	TAX LANDS	YES
	NW1/4-SE1/4	40.00	NREG MINS	NO

		200.00		
SL-06-057-14				
	SE1/4-NW1/4	40.00	TAX LANDS	YES

		40.00		
	Special features or uses: historic/archaeologic sites; natural heritage features			
SL-08-057-14				
	NW1/4-SW1/4	40.00	TAX LANDS	YES

		40.00		
	Except the bed of the St. Louis River; Special features or uses: canoe/boating route; historic/archaeologic sites; federal public access site (NW1/4-NE1/4); natural heritage features			
SL-11-057-14				
	NW1/4-SW1/4	40.00	TAX LANDS	YES

		40.00		
	Special features or uses: canoe/boating route			
SL-12-057-14				
	W1/2-NE1/4	80.00	TAX LANDS	NO
	NW1/4	160.00	TAX LANDS	YES
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	SE1/4-SW1/4	40.00	SCHOOL	YES

		320.00		
SL-13-057-14				
	NE1/4-NE1/4	40.00	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	E1/2-SW1/4	80.00	TAX LANDS	YES

		160.00		

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
SL-17-057-14				
	SE1/4-SW1/4	40.00	TAX LANDS	YES

		40.00		
	Special features or uses: natural heritage features			
SL-18-057-14				
	SW1/4-NE1/4	40.00	TAX LANDS	YES

		40.00		
	Special features or uses: natural heritage features			
SL-20-057-14				
	SW1/4-NW1/4	40.00	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	TAX LANDS	YES
	W1/2-SE1/4	80.00	TAX LANDS	YES

		240.00		
SL-21-057-14				
	Und. 1/2 of SW1/4-NE1/4	40.00	TAX MINS	NO
	Und. 1/2 of SW1/4-NE1/4		NREG MINS	NO
	E1/2-NW1/4	80.00	NREG MINS	NO
	Und. 2/3 of NW1/4-NW1/4	40.00	TAX MINS	NO
	Und. 2/3 of SW1/4-NW1/4	40.00	TAX MINS	NO
	Und. 263/2160 of NE1/4-SW1/4	40.00	TAX MINS	NO
	Und. 7/16 of NE1/4-SW1/4		NREG MINS	NO
	Und. 2/3 of NW1/4-SW1/4	40.00	TAX MINS	NO
	S1/2-SW1/4	80.00	TAX MINS	NO
	Und. 1/2 of NE1/4-SE1/4	40.00	TAX MINS	NO
	Und. 1/2 of NE1/4-SE1/4		NREG MINS	NO
	W1/2-SE1/4	80.00	TAX MINS	NO
	Und. 43/1080 of SE1/4-SE1/4	40.00	TAX MINS	NO
	Und. 7/16 of SE1/4-SE1/4		NREG MINS	NO

		520.00		

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
SL-22-057-14				
	Und. 1/2 of SW1/4-NE1/4	40.00	TAX MINS	NO
	Und. 1/2 of SW1/4-NE1/4		NREG MINS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	Und. 1/2 of NE1/4-SW1/4	40.00	TAX MINS	NO
	Und. 1/2 of NE1/4-SW1/4		NREG MINS	NO
	Und. 1/2 of NW1/4-SW1/4	40.00	TAX MINS	NO
	Und. 1/2 of NW1/4-SW1/4		NREG MINS	NO
	Und. 31/2160 of SW1/4-SW1/4	40.00	TAX MINS	NO
	Und. 7/16 of SW1/4-SW1/4		NREG MINS	NO
	Und. 1/2 of SE1/4-SW1/4	40.00	TAX MINS	NO
	Und. 1/2 of SE1/4-SW1/4		NREG MINS	NO
	E1/2-SE1/4	80.00	TAX LANDS	YES
	Und. 1/2 of NW1/4-SE1/4	40.00	TAX MINS	NO
	Und. 1/2 of NW1/4-SE1/4		NREG MINS	NO

		360.00		
SL-23-057-14				
	NE1/4	160.00	TAX LANDS	NO
	SE1/4-SW1/4	40.00	TAX LANDS	YES
	SE1/4-SE1/4	40.00	TAX LANDS	YES

		240.00		
SL-24-057-14				
	NE1/4-NW1/4	40.00	TAX LANDS	YES
	SW1/4-SW1/4	40.00	TAX LANDS	YES

		80.00		
SL-25-057-14				
	E1/2-SW1/4	80.00	TAX LANDS	YES
	N1/2-SE1/4	80.00	TAX LANDS	YES

		160.00		
SL-26-057-14				
	E1/2-NE1/4	80.00	TAX LANDS	YES
	NW1/4-NW1/4	40.00	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	SE1/4-SW1/4	40.00	TAX LANDS	YES

		200.00		

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
SL-27-057-14				
	W1/2-NE1/4	80.00	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	Und. 49/864 of NE1/4-SW1/4	40.00	TAX MINS	NO
	Und. 7/16 of NE1/4-SW1/4		NREG MINS	NO
	Und. 133/1080 of SW1/4-SW1/4	40.00	TAX MINS	NO
	Und. 7/16 of SW1/4-SW1/4		NREG MINS	NO
	SE1/4-SW1/4	40.00	TAX LANDS	YES
	SW1/4-SE1/4	40.00	TAX LANDS	YES
	SE1/4-SE1/4	40.00	TAX MINS	NO

		320.00		
SL-29-057-14				
	W1/2-NE1/4	80.00	TAX LANDS	YES

		80.00		
	Special features or uses: historic/archaeologic sites; natural heritage features			
SL-31-057-14				
	NW1/4-SE1/4	40.00	TAX LANDS	YES

		40.00		
	Special features or uses: historic/archaeologic sites			
SL-32-057-14				
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		40.00		
	Special features or uses: historic/archaeologic sites			
SL-35-057-14				
	E1/2-SW1/4	80.00	TAX LANDS	YES

		80.00		
	Special features or uses: natural heritage features			
SL-36-057-14				
	FULL SECTION	640.00	SCHOOL	YES

		640.00		

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
SL-14-058-14				
	N1/2-NW1/4	80.00	TAX LANDS	NO
	S1/2-SW1/4	80.00	TAX LANDS	NO

		160.00		
	Except the bed of Partridge River; Special features or uses: natural heritage features			
 SL-15-058-14				
	SE1/4-SW1/4	40.00	TAX LANDS	NO
	NE1/4-SE1/4	40.00	TAX LANDS	NO

		80.00		
	Except the bed of Partridge River; Special features or uses: natural heritage features; historic/archaeologic sites			
 SL-16-058-14				
	E1/2-NE1/4	80.00	SCHOOL	YES
	W1/2-NE1/4	80.00	SCHOOL	NO
	W1/2	320.00	SCHOOL	NO
	SE1/4	160.00	SCHOOL	NO

		640.00		
	Special features or uses: historic/archaeologic sites			
 SL-17-058-14				
	N1/2-SW1/4	80.00	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	NO

		160.00		
 SL-21-058-14				
	Und. 17/30 of SW1/4-SW1/4	40.00	TAX LANDS	NO
	Und. 17/30 of SE1/4-SW1/4	40.00	TAX LANDS	NO

		80.00		

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
SL-28-058-14				
	E1/2-NE1/4	80.00	TAX LANDS	NO
	Und. 17/30 of NE1/4-NW1/4	40.00	TAX LANDS	NO
	Und. 17/30 of NW1/4-NW1/4	40.00	TAX LANDS	NO
	Und. 17/30 of SW1/4-NW1/4	40.00	TAX LANDS	NO
	Und. 17/30 of SE1/4-NW1/4	40.00	TAX LANDS	NO
	E1/2-SW1/4	80.00	TAX LANDS	YES

		320.00		
	Except the bed of the St. Louis River			
	Special features or uses: canoe/boating route			
SL-30-058-14				
	Und. 1/20 of LOT01 (NW1/4-NW1/4)	40.46	TAX LANDS	YES
	Und. 1/20 of LOT02 (SW1/4-NW1/4)	40.59	TAX LANDS	YES

		81.05		
	Except the bed of the St. Louis River			
	Special features or uses: canoe/boating route; natural heritage features			
SL-31-058-14				
	LOT02 (SW1/4-NW1/4)	40.79	TAX LANDS	NO

		40.79		
	Except the bed of the St. Louis River			
	Special features or uses: canoe/boating route; historic/archaeologic sites; natural heritage features			
SL-35-058-14				
	NW1/4-NE1/4	40.00	TAX LANDS	NO

		40.00		
	Except the bed of the St. Louis River			
	Special features or uses: canoe/boating route; historic/archaeologic sites			
SL-36-058-14				
	FULL SECTION	640.00	SCHOOL	YES

		640.00		
	Except the bed of the St. Louis River			
	Special features or uses: canoe/boating route; natural heritage features			

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
SL-13-058-15				
	NW1/4	160.00	TAX LANDS	NO

		160.00		
	Except the bed of the Partridge River			
	Special features or uses: natural heritage features			
SL-14-058-15				
	E1/2	320.00	TAX LANDS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	NO
	E1/2-SW1/4	80.00	TAX LANDS	NO

		440.00		
	Except the bed of the Partridge River			
	Special features or uses: natural heritage features			
SL-16-058-15				
	W1/2-NE1/4	80.00	SCHOOL	NO
	SE1/4-NE1/4	40.00	SCHOOL	NO
	W1/2	320.00	SCHOOL	NO
	SE1/4	160.00	SCHOOL	NO

		600.00		
SL-17-058-15				
	W1/2-NE1/4	80.00	TAX LANDS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	NO
	NE1/4-SW1/4	40.00	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	NO

		240.00		
SL-18-058-15				
	SE1/4-NE1/4	40.00	TAX LANDS	YES
	SE1/4-SW1/4	40.00	TAX LANDS	YES

		80.00		
	Except the bed of unnamed wetland (69-430W)			

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
SL-19-058-15				
	NE1/4-NE1/4	40.00	TAX LANDS	NO
	SW1/4-NE1/4	40.00	TAX LANDS	NO
	LOT01 (NW1/4-NW1/4)	44.86	TAX LANDS	NO
	E1/2-SW1/4	80.00	TAX LANDS	NO
	LOT03 (NW1/4-SW1/4)	44.48	TAX LANDS	NO
	NW1/4-SE1/4	40.00	TAX LANDS	NO
	S1/2-SE1/4	80.00	TAX LANDS	YES

		369.34		
	Except the bed of unnamed wetland (69-430W)			
	Special features or uses: natural heritage features, canoe/boating route			
SL-20-058-15				
	N1/2-NE1/4	80.00	TAX LANDS	NO
	N1/2-NW1/4	80.00	TAX LANDS	NO
	SW1/4-NW1/4, except that part described as follows:	37.75	TAX LANDS	YES
	Commencing at the SW corner of SW1/4-NW1/4, thence at an assumed azimuth of 90d 13m 49s along the E-W 1/4 line a distance of 530 ft., thence at an azimuth of 339d 51m 14s a distance of 213.35 ft. to a point being 200 ft. N. of the E-W 1/4 line measured at a perpendicular, thence at an azimuth of 270d 13m 49s a distance of 450 ft. to a point on the W. line of the NW1/4, thence at an azimuth of 181d 52m 02s a distance of 200.08 ft to the point of beginning.			
	SW1/4-NW1/4, that part described as follows:	2.25	TAX LANDS	NO
	Commencing at the SW corner of SW1/4-NW1/4, thence at an assumed azimuth of 90d 13m 49s along the E-W 1/4 line a distance of 530 ft., thence at an azimuth of 339d 51m 14s a distance of 213.35 ft. to a point being 200 ft. N. of the E-W 1/4 line measured at a perpendicular, thence at an azimuth of 270d 13m 49s a distance of 450 ft. to a point on the W. line of the NW1/4, thence at an azimuth of 181d 52m 02s a distance of 200.08 ft to the point of beginning.			
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	S1/2-SW1/4	80.00	TAX LANDS	YES
	SW1/4-SE1/4	40.00	TAX LANDS	YES

		360.00		
	Except the beds of Cedar Lake and unnamed wetland (69-431P, 69-432W)			
	Special features or uses: natural heritage features, canoe/boating route			

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
SL-21-058-15				
	NW1/4-NW1/4	40.00	TAX LANDS	NO
	SW1/4-SW1/4	40.00	TAX LANDS	NO
	NW1/4-SE1/4, the E. 200 ft. lying S. of river	4.78	TAX LANDS	NO
	SW1/4-SE1/4, the E. 330 ft. of W. 530 ft., except the W. 50 ft.	8.49	TAX LANDS	NO

		93.27		
	Except the bed of unnamed wetland (69-432W)			
	Special features or uses: natural heritage features, canoe/boating route			
SL-22-058-15				
	SW1/4-NE1/4	40.00	TAX LANDS	YES

		40.00		
	Special features or uses: natural heritage features, canoe/boating route			
SL-24-058-15				
	SW1/4-NW1/4	40.00	TAX LANDS	NO
	SW1/4	160.00	TAX LANDS	NO
	W1/2-SE1/4	80.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		320.00		
	Except the bed of unnamed wetland (69-990W)			
	Special features or uses: natural heritage features			
SL-25-058-15				
	E1/2-NE1/4	80.00	TAX LANDS	YES
	W1/2-NE1/4	80.00	TAX LANDS	NO
	NW1/4-NW1/4	40.00	TAX LANDS	NO
	NE1/4-SW1/4	40.00	TAX LANDS	NO
	SW1/4-SW1/4	40.00	TAX LANDS	YES
	NE1/4-SE1/4	40.00	TAX LANDS	YES
	NW1/4-SE1/4	40.00	TAX LANDS	NO
	S1/2-SE1/4	80.00	TAX LANDS	YES

		440.00		
	Except the bed of the St. Louis River			
	Special features or uses: natural heritage features, canoe/boating route			

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
SL-26-058-15				
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	SW1/4-SE1/4	40.00	TAX LANDS	YES

		80.00		
	Except the bed of the St. Louis River			
	Special features or uses: canoe/boating route			
SL-27-058-15				
	N1/2-NE1/4	80.00	TAX LANDS	NO
	SW1/4-NE1/4	40.00	TAX LANDS	NO
	SW1/4-SW1/4, the E. 165 ft. of W. 495 ft.	5.00	TAX LANDS	NO
	SW1/4-SW1/4, the W. 330 ft.	10.00	TAX LANDS	NO
	SW1/4-SW1/4, that part lying SE of Highway 100	6.20	TAX LANDS	NO

		141.20		
SL-28-058-15				
	NW1/4-NW1/4	40.00	TAX LANDS	NO
	SW1/4	160.00	TAX LANDS	YES
	SW1/4-SE1/4	40.00	TAX LANDS	YES
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		280.00		
SL-29-058-15				
	NW1/4-NE1/4	40.00	TAX LANDS	YES
	W1/2	320.00	TAX LANDS	YES
	SE1/4	160.00	TAX LANDS	YES

		520.00		
	Special features or uses: canoe/boating route			
SL-30-058-15				
	E1/2	320.00	TAX LANDS	YES
	NE1/4-NW1/4, except the N. 160 ft. of the E. 520 ft.	38.09	TAX LANDS	YES
	NE1/4-NW1/4, the N. 160 ft. of E. 520 ft.	1.91	TAX LANDS	NO
	LOT01 (NW1/4-NW1/4)	44.03	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	SE1/4-SW1/4	40.00	TAX LANDS	NO

		524.03		
	Special features or uses: canoe/boating route			

Saint Louis County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
SL-31-058-15				
	NE1/4	160.00	TAX LANDS	YES
	E1/2-NW1/4	80.00	TAX LANDS	YES
	LOT01 (NW1/4-NW1/4)	42.77	TAX LANDS	YES
	LOT02 (SW1/4-NW1/4)	42.55	TAX LANDS	YES
	LOT03 (NW1/4-SW1/4)	42.33	TAX LANDS	YES
	N1/2-SE1/4	80.00	TAX LANDS	YES
	SW1/4-SE1/4, the N. 330 ft. of the S. 990 ft.	10.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	TAX LANDS	YES

		497.65		
	Special features or uses: natural heritage features, canoe/boating route			
SL-32-058-15				
	FULL SECTION	640.00	TAX LANDS	YES

		640.00		
SL-33-058-15				
	NW1/4	160.00	TAX LANDS	YES
	W1/2-SW1/4	80.00	TAX LANDS	YES

		240.00		
SL-34-058-15				
	NW1/4-SE1/4	40.00	TAX LANDS	NO

		40.00		
SL-35-058-15				
	W1/2-NE1/4	80.00	TAX LANDS	YES
	SE1/4-NE1/4	40.00	TAX LANDS	YES
	NE1/4-SE1/4	40.00	TAX LANDS	YES

		160.00		
SL-36-058-15				
	FULL SECTION	640.00	SCHOOL	YES

		640.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-01-046-22				
	LOT01 (NE1/4-NE1/4)	40.07	TAX LANDS	YES
	LOT02 (NW1/4-NE1/4)	40.22	TAX LANDS	YES
	S1/2-NE1/4	80.00	TAX LANDS	YES
	LOT03 (NE1/4-NW1/4)	40.37	TAX LANDS	YES
	LOT04 (NW1/4-NW1/4)	40.52	TAX LANDS	YES
	S1/2-NW1/4	80.00	TAX LANDS	YES
	S1/2	320.00	TAX LANDS	YES

		641.18		
A-02-046-22				
	LOT01 (NE1/4-NE1/4)	40.52	TAX LANDS	YES
	LOT02 (NW1/4-NE1/4)	40.35	TAX LANDS	YES
	S1/2-NE1/4	80.00	TAX LANDS	YES
	LOT03 (NE1/4-NW1/4)	40.16	TAX LANDS	YES
	LOT04 (NW1/4-NW1/4)	40.02	TAX LANDS	YES
	S1/2-NW1/4	80.00	TAX LANDS	YES
	S1/2	320.00	TAX LANDS	YES

		641.05		
A-03-046-22				
	LOT01 (NE1/4-NE1/4)	40.13	TAX LANDS	YES
	LOT02 (NW1/4-NE1/4)	40.50	TAX LANDS	YES
	S1/2-NE1/4	80.00	TAX LANDS	YES
	LOT03 (NE1/4-NW1/4)	40.88	TAX LANDS	YES
	LOT04 (NW1/4-NW1/4)	41.25	TAX LANDS	YES
	S1/2-NW1/4	80.00	TAX LANDS	YES
	S1/2	320.00	TAX LANDS	YES

		642.76		
A-04-046-22				
	LOT01 (NE1/4-NE1/4)	41.40	TAX LANDS	YES
	LOT02 (NW1/4-NE1/4)	41.31	TAX LANDS	YES
	S1/2-NE1/4	80.00	TAX LANDS	YES
	LOT03 (NE1/4-NW1/4)	41.22	TAX LANDS	YES
	LOT04 (NW1/4-NW1/4)	41.14	TAX LANDS	YES
	S1/2-NW1/4	80.00	TAX LANDS	YES
	SW1/4	160.00	TAX LANDS	YES
	E1/2-SE1/4	80.00	SCHOOL	YES
	W1/2-SE1/4	80.00	TAX LANDS	YES

		645.07		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-05-046-22				
	LOT01 (NE1/4-NE1/4)	40.70	TAX LANDS	YES
	LOT02 (NW1/4-NE1/4)	39.89	TAX LANDS	YES
	S1/2-NE1/4	80.00	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	TAX LANDS	NO
	S1/2-SW1/4	80.00	TAX LANDS	YES
	SE1/4	160.00	TAX LANDS	YES

		520.59		
A-06-046-22				
	LOT01 (NE1/4-NE1/4)	36.14	TAX LANDS	NO
	NE1/4-SW1/4	40.00	TAX LANDS	NO
	LOT06 (NW1/4-SW1/4)	27.66	SCHOOL	YES
	LOT07 (SW1/4-SW1/4)	27.89	SCHOOL	YES
	SE1/4-SW1/4	40.00	SCHOOL	YES
	N1/2-SE1/4	80.00	TAX LANDS	NO
	SW1/4-SE1/4	40.00	SCHOOL	YES
	SE1/4-SE1/4	40.00	SCHOOL	NO

		331.69		
A-07-046-22				
	S1/2-NE1/4	80.00	TAX LANDS	NO
	E1/2-NW1/4	80.00	TAX LANDS	NO
	LOT01 (NW1/4-NW1/4)	27.95	TAX LANDS	NO
	LOT02 (SW1/4-NW1/4)	27.86	TAX LANDS	NO
	E1/2-SW1/4	80.00	TAX LANDS	NO
	LOT03 (NW1/4-SW1/4)	27.76	TAX LANDS	NO
	LOT04 (SW1/4-SW1/4)	27.67	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		471.24		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-08-046-22				
	NE1/4	160.00	TAX LANDS	YES
	NE1/4-NW1/4	40.00	SCHOOL	YES
	NW1/4-NW1/4	40.00	SCHOOL	NO
	SW1/4-NW1/4	40.00	TAX LANDS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	NW1/4-SW1/4, except 1 acre described as follows: Beginning at the NW corner, thence running E. on the quarter line a distance of 208 ft., thence S. 208 ft., thence W. 208 ft., thence N. along the section line 208 ft. to the place of beginning	39.00	TAX LANDS	YES
	SW1/4-SW1/4	40.00	SCHOOL	NO
	SE1/4-SW1/4	40.00	SCHOOL	YES
	NE1/4-SE1/4	40.00	TAX LANDS	YES
	NW1/4-SE1/4	40.00	SCHOOL	NO
	S1/2-SE1/4	80.00	TAX LANDS	YES

		639.00		
A-09-046-22				
	FULL SECTION	640.00	TAX LANDS	YES

		640.00		
A-10-046-22				
	N1/2-NE1/4	80.00	SCHOOL	YES
	SW1/4-NE1/4	40.00	SCHOOL	YES
	SE1/4-NE1/4	40.00	TAX LANDS	YES
	NW1/4	160.00	SCHOOL	YES
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	NW1/4-SW1/4	40.00	SCHOOL	YES
	S1/2-SW1/4	80.00	TAX LANDS	YES
	N1/2-SE1/4	80.00	SCHOOL	YES
	S1/2-SE1/4	80.00	TAX LANDS	YES

		640.00		
A-11-046-22				
	FULL SECTION	640.00	TAX LANDS	YES

		640.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-12-046-22				
	N1/2-NE1/4	80.00	TAX LANDS	YES
	SW1/4-NE1/4	40.00	TAX LANDS	YES
	SE1/4-NE1/4	40.00	SCHOOL	NO
	NW1/4	160.00	TAX LANDS	YES
	E1/2-SW1/4	80.00	SCHOOL	YES
	NW1/4-SW1/4	40.00	TAX LANDS	YES
	SW1/4-SW1/4	40.00	SCHOOL	NO
	N1/2-SE1/4	80.00	SCHOOL	YES
	S1/2-SE1/4	80.00	TAX LANDS	YES

		640.00		
A-13-046-22				
	N1/2	320.00	TAX LANDS	YES
	S1/2-SW1/4	80.00	TAX LANDS	NO
	NE1/4-SE1/4, the N1/2	20.00	TAX LANDS	NO
	NW1/4-SE1/4, the N1/2	20.00	TAX LANDS	NO
	S1/2-SE1/4	80.00	TAX LANDS	NO

		520.00		
A-14-046-22				
	W1/2-NE1/4	80.00	SCHOOL	YES
	SE1/4-NE1/4	40.00	TAX LANDS	YES
	N1/2-NW1/4	80.00	TAX LANDS	YES
	SW1/4-NW1/4	40.00	TAX LANDS	YES
	SE1/4-NW1/4	40.00	SCHOOL	YES
	SW1/4	160.00	SCHOOL	YES
	NE1/4-SE1/4	40.00	TAX LANDS	YES
	W1/2-SE1/4	80.00	SCHOOL	YES
	SE1/4-SE1/4	40.00	SCHOOL	YES

		600.00		
A-15-046-22				
	FULL SECTION	640.00	TAX LANDS	YES

		640.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-16-046-22				
	N1/2-NE1/4	80.00	SCHOOL	YES
	SW1/4-NE1/4	40.00	SCHOOL	YES
	SE1/4-NE1/4	40.00	SCHOOL	NO
	E1/2-NW1/4	80.00	SCHOOL	NO
	W1/2-NW1/4	80.00	SCHOOL	YES
	N1/2-SW1/4	80.00	SCHOOL	NO
	S1/2-SW1/4	80.00	SCHOOL	YES
	NE1/4-SE1/4	40.00	SCHOOL	NO
	W1/2-SE1/4	80.00	SCHOOL	YES
	SE1/4-SE1/4	40.00	SCHOOL	YES

		640.00		
A-17-046-22				
	E1/2	320.00	TAX LANDS	YES
	N1/2-NW1/4	80.00	TAX LANDS	NO
	SW1/4-NW1/4	40.00	TAX LANDS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	SW1/4	160.00	TAX LANDS	NO

		640.00		
A-18-046-22				
	W1/2-NE1/4	80.00	TAX LANDS	NO
	E1/2-NW1/4	80.00	TAX LANDS	NO
	LOT01 (NW1/4-NW1/4)	27.69	TAX LANDS	NO
	LOT02 (SW1/4-NW1/4)	27.83	TAX LANDS	NO
	E1/2-SW1/4	80.00	TAX LANDS	NO
	LOT03 (NW1/4-SW1/4)	27.97	TAX LANDS	NO
	LOT04 (SW1/4-SW1/4)	28.11	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		511.60		
A-19-046-22				
	N1/2-NE1/4	80.00	TAX LANDS	NO
	E1/2-NW1/4	80.00	TAX LANDS	NO
	LOT01 (NW1/4-NW1/4)	28.18	TAX LANDS	NO
	LOT02 (SW1/4-NW1/4)	28.18	TAX LANDS	NO
	E1/2-SW1/4	80.00	TAX LANDS	NO
	LOT03 (NW1/4-SW1/4)	28.18	TAX LANDS	NO
	LOT04 (SW1/4-SW1/4)	28.19	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	NO

		432.73		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-20-046-22				
	N1/2-NE1/4	80.00	TAX LANDS	YES
	SW1/4-NE1/4	40.00	TAX LANDS	YES
	N1/2-NW1/4	80.00	TAX LANDS	NO
	NW1/4-SE1/4	40.00	TAX LANDS	NO

		240.00		
A-21-046-22				
	NE1/4	160.00	TAX LANDS	YES
	N1/2-NW1/4	80.00	TAX LANDS	YES
	SE1/4-NW1/4	40.00	TAX LANDS	YES
	N1/2-SW1/4	80.00	TAX LANDS	NO
	E1/2-SE1/4	80.00	TAX LANDS	NO
	NW1/4-SE1/4	40.00	TAX LANDS	YES

		480.00		
A-22-046-22				
	NE1/4	160.00	SCHOOL	YES
	NW1/4	160.00	TAX LANDS	YES
	NE1/4-SW1/4	40.00	SCHOOL	NO
	NW1/4-SW1/4	40.00	SCHOOL	YES
	SW1/4-SW1/4	40.00	SCHOOL	NO
	SE1/4-SW1/4	40.00	SCHOOL	YES
	NE1/4-SE1/4	40.00	TAX LANDS	NO
	SW1/4-SE1/4	40.00	TAX LANDS	NO

		560.00		
A-23-046-22				
	N1/2	320.00	TAX LANDS	YES
	NW1/4-SW1/4	40.00	TAX LANDS	YES
	SW1/4-SW1/4	40.00	TAX LANDS	NO
	E1/2-SE1/4	80.00	TAX LANDS	NO

		480.00		
Special features or uses: historic/archaeologic sites				

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-24-046-22				
	NW1/4-NE1/4	38.58	SCHOOL	YES
	SW1/4-NE1/4	38.79	SCHOOL	YES
	SE1/4-NE1/4	39.00	SCHOOL	YES
	NE1/4-NW1/4	39.89	SCHOOL	YES
	NW1/4-NW1/4	39.82	TAX LANDS	NO
	SW1/4-NW1/4	39.82	SCHOOL	NO
	SE1/4-NW1/4	39.89	SCHOOL	NO
	NE1/4-SW1/4	39.90	SCHOOL	NO
	NW1/4-SW1/4	39.83	SCHOOL	NO
	SW1/4-SW1/4	39.83	SCHOOL	NO
	NW1/4-SE1/4	38.36	SCHOOL	YES

		433.71		
	Special features or uses: natural heritage features			
A-25-046-22				
	W1/2-NE1/4	80.00	TAX LANDS	NO
	N1/2-NW1/4	80.00	TAX LANDS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	NO
	S1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		440.00		
	Special features or uses: natural heritage features			
A-26-046-22				
	NE1/4-NE1/4	40.00	TAX LANDS	NO
	NW1/4-NE1/4, except 1.5 acre school site described as follows: Commencing at the NW corner, running thence S. a distance of 300 ft. along the W. quarter line of said forty, a distance of 15.5 rods, thence E. on a line parallel with the N. boundary of said section 26, a distance of 15.5 rods, thence N. on a line parallel with the W. quarter line of said forty, a distance of 15.5 rods, to the place of beginning.	38.50	TAX LANDS	NO
	SW1/4-NE1/4	40.00	TAX LANDS	NO
	NW1/4-NW1/4	39.83	SCHOOL	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	E1/2-SW1/4	80.00	SCHOOL	NO
	NW1/4-SW1/4	40.01	SCHOOL	NO
	SW1/4-SW1/4, the E. 440 ft. of the W. 880 ft. of the N. 495 ft.	5.00	TAX LANDS	NO

		363.34		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-27-046-22				
	E1/2	320.00	TAX LANDS	NO
	NW1/4-NW1/4, except 10 acres in NW corner	30.00	TAX LANDS	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	W1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4-SW1/4	40.00	TAX LANDS	NO

		550.00		
	Special features or uses: historic/archaeologic sites			
A-28-046-22				
	SE1/4-NE1/4	40.00	SCHOOL	NO
	W1/2	320.00	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		520.00		
A-29-046-22				
	N1/2-NE1/4	80.00	TAX LANDS	NO
	S1/2-NE1/4	80.00	TAX LANDS	YES
	NW1/4	160.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	TAX LANDS	NO
	S1/2-SW1/4	80.00	TAX LANDS	YES
	SE1/4	160.00	TAX LANDS	YES

		640.00		
A-30-046-22				
	E1/2-NW1/4	80.00	TAX LANDS	NO
	LOT01 (NW1/4-NW1/4)	28.15	TAX LANDS	NO
	LOT02 (SW1/4-NW1/4)	28.05	TAX LANDS	NO
	NE1/4-SW1/4	40.00	TAX LANDS	NO
	LOT03 (NW1/4-SW1/4)	27.95	TAX LANDS	NO
	LOT04 (SW1/4-SW1/4)	27.85	SCHOOL	YES
	SE1/4-SW1/4	40.00	SCHOOL	YES
	NE1/4-SE1/4	40.00	SCHOOL	NO
	NW1/4-SE1/4	40.00	TAX LANDS	NO
	S1/2-SE1/4	80.00	SCHOOL	YES

		432.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-31-046-22				
	N1/2-NE1/4	80.00	TAX LANDS	NO
	SW1/4-NE1/4	40.00	TAX LANDS	YES
	SE1/4-NE1/4	40.00	TAX LANDS	NO
	E1/2-NW1/4	80.00	TAX LANDS	YES
	LOT01 (NW1/4-NW1/4)	27.72	TAX LANDS	YES
	LOT02 (SW1/4-NW1/4)	27.55	TAX LANDS	YES
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	LOT03 (NW1/4-SW1/4)	27.39	TAX LANDS	YES
	LOT04 (SW1/4-SW1/4)	27.22	TAX LANDS	NO
	SE1/4-SW1/4	40.00	TAX LANDS	NO
	NE1/4-SE1/4	40.00	TAX LANDS	NO
	NW1/4-SE1/4	40.00	TAX LANDS	YES
	SW1/4-SE1/4	40.00	TAX LANDS	NO

		549.88		
A-32-046-22				
	N1/2-NE1/4	80.00	TAX LANDS	NO
	S1/2-NE1/4	80.00	TAX LANDS	YES
	W1/2	320.00	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	YES
	S1/2-SE1/4	80.00	TAX LANDS	NO

		640.00		
A-33-046-22				
	N1/2	320.00	TAX LANDS	NO
	W1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		560.00		
A-34-046-22				
	NE1/4	160.00	TAX LANDS	NO
	NE1/4-NW1/4	40.00	TAX LANDS	NO
	NW1/4-NW1/4	40.00	SCHOOL	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	S1/2	320.00	TAX LANDS	NO

		640.00		
A-35-046-22				
	FULL SECTION	640.00	TAX LANDS	NO

		640.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-36-046-22				
	NE1/4	160.00	SCHOOL	YES
	N1/2-NW1/4	80.00	SCHOOL	YES
	SW1/4-NW1/4	40.00	SCHOOL	NO
	SE1/4-NW1/4	40.00	SCHOOL	YES
	NE1/4-SW1/4	40.00	SCHOOL	YES
	NW1/4-SW1/4	40.00	SCHOOL	NO
	S1/2-SW1/4	80.00	SCHOOL	YES
	NE1/4-SE1/4	40.00	SCHOOL	NO
	NW1/4-SE1/4	40.00	SCHOOL	YES
	SW1/4-SE1/4	40.00	SCHOOL	NO
	SE1/4-SE1/4	40.00	SCHOOL	YES

		640.00		
	Special features or uses: natural heritage features			
A-01-046-23				
	LOT01 (NE1/4-NE1/4)	39.62	TAX LANDS	NO
	LOT02 (NW1/4-NE1/4)	38.87	TAX LANDS	NO
	S1/2-NE1/4	80.00	TAX LANDS	NO
	LOT03 (NE1/4-NW1/4)	36.12	TAX LANDS	NO
	LOT04 (NW1/4-NW1/4)	37.37	TAX LANDS	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	S1/2	320.00	TAX LANDS	NO

		631.98		
A-02-046-23				
	LOT01 (NE1/4-NE1/4)	37.22	TAX LANDS	NO
	LOT02 (NW1/4-NE1/4)	37.67	SCHOOL	YES
	SW1/4-NE1/4	40.00	SCHOOL	YES
	LOT03 (NE1/4-NW1/4)	38.12	SCHOOL	YES
	LOT04 (NW1/4-NW1/4)	38.57	SCHOOL	YES
	S1/2-NW1/4	80.00	SCHOOL	YES
	N1/2-SW1/4	80.00	SCHOOL	NO
	SE1/4	160.00	SCHOOL	YES

		511.58		
A-03-046-23				
	LOT01 (NE1/4-NE1/4)	38.79	TAX LANDS	NO
	LOT02 (NW1/4-NE1/4)	38.77	TAX LANDS	NO
	S1/2-NE1/4	80.00	TAX LANDS	NO
	LOT03 (NE1/4-NW1/4)	38.75	TAX LANDS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	NO
	E1/2-SW1/4	80.00	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	NO
	SW1/4-SE1/4	40.00	TAX LANDS	NO

		436.31		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
A-04-046-23				
	SE1/4-NE1/4	40.00	SCHOOL	NO
	SW1/4	160.00	TAX LANDS	NO

		200.00		
	Special features or uses: historic/archaeologic sites			
 A-05-046-23				
	LOT01 (NE1/4-NE1/4)	39.79	TAX LANDS	NO
	LOT02 (NW1/4-NE1/4)	39.77	TAX LANDS	NO
	S1/2-NE1/4	80.00	TAX LANDS	NO
	LOT03 (NE1/4-NW1/4)	39.75	TAX LANDS	NO
	LOT04 (NW1/4-NW1/4)	39.73	TAX LANDS	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	W1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4-SW1/4	40.00	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		599.04		
 A-06-046-23				
	LOT01 (NE1/4-NE1/4)	39.75	TAX LANDS	NO
	SW1/4-NE1/4	40.00	SCHOOL	YES
	SE1/4-NE1/4	40.00	TAX LANDS	NO
	LOT03 (NE1/4-NW1/4)	39.89	SCHOOL	NO
	LOT05 (SW1/4-NW1/4)	57.11	SCHOOL	YES
	SE1/4-NW1/4	40.00	SCHOOL	YES
	E1/2-SW1/4	80.00	SCHOOL	YES
	LOT06 (NW1/4-SW1/4)	56.85	SCHOOL	YES
	LOT07 (SW1/4-SW1/4)	56.59	TAX LANDS	NO
	NE1/4-SE1/4	40.00	TAX LANDS	NO
	W1/2-SE1/4	80.00	SCHOOL	YES
	SE1/4-SE1/4	40.00	SCHOOL	YES

		610.19		
 A-07-046-23				
	W1/2-NE1/4	80.00	TAX LANDS	YES
	E1/2-NW1/4	80.00	TAX LANDS	YES
	LOT01 (NW1/4-NW1/4)	56.42	TAX LANDS	YES
	LOT02 (SW1/4-NW1/4)	56.30	TAX LANDS	NO
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	LOT03 (NW1/4-SW1/4)	56.18	TAX LANDS	NO
	LOT04 (SW1/4-SW1/4)	56.06	TAX LANDS	NO
	SE1/4-SW1/4, except 2.07 acres	37.93	TAX LANDS	YES

		462.89		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-08-046-23				
	E1/2	320.00	SCHOOL	NO
	N1/2-NW1/4	80.00	R CREDIT	NO
	SW1/4-NW1/4	40.00	SCHOOL	NO
	SE1/4-NW1/4	40.00	R CREDIT	NO

		480.00		
A-09-046-23				
	E1/2	320.00	TAX LANDS	NO
	NE1/4-NW1/4	40.00	TAX LANDS	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	NE1/4-SW1/4	40.00	TAX LANDS	NO
	S1/2-SW1/4	80.00	TAX LANDS	NO

		560.00		
A-10-046-23				
	E1/2-NE1/4	80.00	SCHOOL	NO
	W1/2-NW1/4	80.00	TAX LANDS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	NO
	SW1/4	160.00	TAX LANDS	NO

		360.00		
A-11-046-23				
	NE1/4-NE1/4	40.00	TAX LANDS	NO
	S1/2-NE1/4	80.00	TAX LANDS	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	S1/2	320.00	TAX LANDS	NO

		520.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-12-046-23				
	SW1/4-NE1/4	39.77	SCHOOL	NO
	SE1/4-NE1/4	39.61	SCHOOL	NO
	NE1/4-NW1/4	39.33	SCHOOL	NO
	NW1/4-NW1/4	39.21	SCHOOL	NO
	SW1/4-NW1/4	39.24	SCHOOL	YES
	SE1/4-NW1/4	39.36	SCHOOL	YES
	NE1/4-SW1/4	38.90	SCHOOL	NO
	NW1/4-SW1/4, 2 acres in NW corner	2.00	TAX LANDS	NO
	SE1/4-SW1/4	38.91	SCHOOL	YES
	NE1/4-SE1/4	39.75	TAX LANDS	NO
	NW1/4-SE1/4	39.50	SCHOOL	NO
	SW1/4-SE1/4	39.48	SCHOOL	YES
	SE1/4-SE1/4	39.74	TAX LANDS	NO

		474.80		
	Special features or uses: historic/archaeologic sites			
A-13-046-23				
	N1/2	320.00	TAX LANDS	NO
	W1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4-SW1/4	40.00	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		600.00		
A-14-046-23				
	NW1/4-NE1/4	40.00	SCHOOL	YES
	N1/2-NW1/4	80.00	SCHOOL	YES
	E1/2-SW1/4	80.00	SCHOOL	NO
	W1/2-SW1/4	80.00	SCHOOL	YES
	N1/2-SE1/4	80.00	SCHOOL	YES
	SW1/4-SE1/4	40.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	SCHOOL	YES

		440.00		
A-15-046-23				
	N1/2-NE1/4	80.00	TAX LANDS	YES
	SW1/4-NE1/4	40.00	TAX LANDS	NO
	SE1/4-NE1/4	40.00	TAX LANDS	YES
	W1/2	320.00	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		640.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
A-16-046-23				
	NE1/4-NE1/4	40.00	SCHOOL	NO
	W1/2-NE1/4	80.00	SCHOOL	YES
	SE1/4-NE1/4	40.00	SCHOOL	YES
	NE1/4-NW1/4	40.00	SCHOOL	YES
	W1/2-NW1/4	80.00	SCHOOL	NO
	SE1/4-NW1/4	40.00	SCHOOL	NO
	NE1/4-SW1/4	40.00	SCHOOL	YES
	W1/2-SW1/4	80.00	SCHOOL	NO
	SE1/4-SW1/4	40.00	SCHOOL	NO
	SE1/4	160.00	SCHOOL	YES

		640.00		
A-17-046-23				
	S1/2-NE1/4	80.00	TAX LANDS	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	SW1/4	160.00	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	NO

		400.00		
	Special features or uses: historic/archaeologic sites			
A-18-046-23				
	NE1/4	160.00	SCHOOL	NO
	NE1/4-NW1/4	40.00	SCHOOL	NO
	LOT01 (NW1/4-NW1/4)	55.88	SCHOOL	NO
	S1/2-SE1/4	80.00	SCHOOL	NO

		335.88		
A-19-046-23				
	NE1/4-SE1/4, the W1/2	20.00	TAX LANDS	YES
	NE1/4-SE1/4, the E1/2	20.00	TAX LANDS	NO
	W1/2-SE1/4	80.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		160.00		
	Special features or uses: wildlife management area			
A-20-046-23				
	E1/2-NE1/4	80.00	SCHOOL	YES
	W1/2-NE1/4	80.00	SCHOOL	NO
	N1/2-NW1/4	80.00	SCHOOL	NO
	S1/2-SW1/4	80.00	SCHOOL	NO

		320.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
A-21-046-23				
	N1/2	320.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4-SW1/4	40.00	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	NO

		520.00		
A-22-046-23				
	NE1/4	160.00	SCHOOL	YES
	N1/2-NW1/4	80.00	TAX LANDS	NO
	S1/2-NW1/4	80.00	SCHOOL	YES
	E1/2-SW1/4	80.00	SCHOOL	NO
	N1/2-SE1/4	80.00	SCHOOL	NO
	SW1/4-SE1/4	40.00	SCHOOL	NO
	SE1/4-SE1/4, except Hwy. R/W 4.12 acres	35.88	TAX LANDS	NO

		555.88		
	Special features or uses: historic/archaeologic sites			
A-23-046-23				
	N1/2	320.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	TAX LANDS	YES
	S1/2-SW1/4	80.00	TAX LANDS	NO
	N1/2-SE1/4	80.00	TAX LANDS	YES
	S1/2-SE1/4	80.00	TAX LANDS	NO

		640.00		
A-24-046-23				
	NE1/4-NE1/4	40.00	SCHOOL	NO
	SW1/4-NE1/4	40.00	TAX LANDS	NO
	NE1/4-NW1/4	40.00	TAX LANDS	NO
	NW1/4-NW1/4	40.00	SCHOOL	YES
	S1/2-NW1/4	80.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	SCHOOL	YES
	S1/2-SW1/4	80.00	TAX LANDS	NO
	S1/2-SE1/4	80.00	TAX LANDS	NO

		480.00		
A-25-046-23				
	FULL SECTION	640.00	TAX LANDS	NO

		640.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-26-046-23				
	NE1/4	160.00	TAX LANDS	NO
	NW1/4-NW1/4	40.00	TAX LANDS	NO
	S1/2-NW1/4	80.00	SCHOOL	YES
	SW1/4	160.00	SCHOOL	YES
	W1/2-SE1/4	80.00	SCHOOL	YES
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		560.00		
A-27-046-23				
	NE1/4	160.00	TAX LANDS	NO
	NE1/4-NW1/4	40.00	TAX LANDS	NO
	NW1/4-NW1/4, except 1 acre described as follows: Commencing at the NW corner and running thence in an E'ly direction along the N. line of section 27, a distance of 16 rods, thence at right angles and in a S'ly direction 10 rods, thence at right angles and in a W'ly direction 16 rods, thence at right angles and in a N'ly direction 10 rods to place of beginning	39.00	TAX LANDS	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	S1/2	320.00	TAX LANDS	NO

		639.00		
A-28-046-23				
	NW1/4-NE1/4	40.00	TAX LANDS	NO
	SW1/4-NE1/4	40.00	SCHOOL	YES
	SE1/4-NE1/4	40.00	SCHOOL	NO
	S1/2	320.00	SCHOOL	YES

		440.00		
	Special features or uses: historic/archaeologic sites			

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-29-046-23				
	NW1/4	160.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	TAX LANDS	NO
	S1/2-SW1/4, except 4.5 acres described as follows: From a point on the E. and W. quarter line of 30-46-23, distant 10 ft. W. of the E. quarter corner thereof, run S'y and parallel with the E. line of section 30 for a distance of 1340 ft., thence deflect to the left at an angle of 82 deg. 49 min. for a distance of 265 ft., thence deflect to the left at an angle of 26 deg. 38 min. for a distance of 257 ft., thence deflect to the right at an angle of 14 deg. 23 min. for a distance of 260 ft., thence deflect to the right at an angle of 42 deg. 29 min. for a distance of 293 ft., thence deflect to the right at an angle of 18 deg. 33 min. for a distance of 235 ft. to the point of beginning of tract to be described, thence run W'y and parallel with the S. line of said section 29 for a distance of 100 ft., thence deflect to the left at an angle of 90 deg. 00 min. for a distance of 435.6 ft., thence deflect to the left at an angle of 90 deg. 00 min. for a distance of 450 ft., thence deflect to the left at an angle of 90 deg. 00 min. for a distance of 435.6 ft., thence deflect to the left at an angle of 90 deg. 00 min. for a distance of 350 ft. to the point of beginning	75.50	TAX LANDS	NO
	NE1/4-SE1/4, except Hwy. R/W 1.17 acres	38.83	TAX LANDS	NO
	W1/2-SE1/4	80.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		474.33		
A-30-046-23				
	NE1/4	160.00	TAX LANDS	NO
	E1/2-NW1/4	80.00	TAX LANDS	NO
	LOT01 (NW1/4-NW1/4)	55.15	TAX LANDS	NO
	LOT02 (SW1/4-NW1/4)	55.05	TAX LANDS	NO
	E1/2-SW1/4	80.00	SCHOOL	YES
	LOT03 (NW1/4-SW1/4)	54.95	TAX LANDS	NO
	LOT04 (SW1/4-SW1/4)	54.85	SCHOOL	YES
	NW1/4-SE1/4	40.00	TAX LANDS	NO
	SW1/4-SE1/4	40.00	SCHOOL	YES

		620.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
A-31-046-23				
	E1/2	320.00	TAX LANDS	NO
	E1/2-NW1/4	80.00	TAX LANDS	NO
	LOT01 (NW1/4-NW1/4)	54.72	TAX LANDS	NO
	LOT02 (SW1/4-NW1/4)	54.57	TAX LANDS	NO
	E1/2-SW1/4	80.00	TAX LANDS	NO
	LOT03 (NW1/4-SW1/4)	54.42	TAX LANDS	NO
	LOT04 (SW1/4-SW1/4)	54.27	TAX LANDS	NO

		697.98		
	Special features or uses: natural heritage sites			
A-32-046-23				
	N1/2-NE1/4	80.00	SCHOOL	YES
	N1/2-NW1/4	80.00	SCHOOL	YES
	S1/2-NW1/4	80.00	TAX LANDS	NO
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	NW1/4-SW1/4	40.00	TAX LANDS	NO
	S1/2-SW1/4	80.00	SCHOOL	YES
	W1/2-SE1/4	80.00	TAX LANDS	YES
	SE1/4-SE1/4	40.00	TAX LANDS	YES

		520.00		
	Special features or uses: historic/archaeologic sites			
A-33-046-23				
	E1/2-NE1/4	80.00	TAX LANDS	YES
	N1/2-NW1/4	80.00	TAX LANDS	NO
	SW1/4-NW1/4, except 1.27 acre Hwy. R/W	38.73	TAX LANDS	NO
	NW1/4-SW1/4, except 1 acre Hwy. R/W	39.00	TAX LANDS	NO
	E1/2-SE1/4	80.00	TAX LANDS	YES

		317.73		
A-34-046-23				
	NE1/4-NE1/4	40.00	SCHOOL	NO
	NW1/4-NE1/4	40.00	TAX LANDS	NO
	S1/2-NE1/4	80.00	SCHOOL	NO
	NE1/4-NW1/4	40.00	SCHOOL	YES
	W1/2-SW1/4	80.00	SCHOOL	YES
	SE1/4-SW1/4	40.00	TAX LANDS	NO
	NE1/4-SE1/4	40.00	TAX LANDS	NO
	S1/2-SE1/4	80.00	TAX LANDS	NO

		440.00		
	Special features or uses: historic/archaeologic sites			

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-35-046-23				
	N1/2-NE1/4	80.00	TAX LANDS	NO
	SW1/4-NE1/4	40.00	TAX LANDS	NO
	SE1/4-NE1/4	40.00	TAX LANDS	YES
	NE1/4-NW1/4	40.00	TAX LANDS	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	TAX LANDS	NO
	SW1/4-SW1/4	40.00	TAX LANDS	NO
	NE1/4-SE1/4	40.00	TAX LANDS	YES
	W1/2-SE1/4	80.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		560.00		
A-36-046-23				
	FULL SECTION	640.00	SCHOOL	YES

		640.00		
	Special features or uses: natural heritage features			
A-20-047-23				
	NE1/4-SE1/4, that part N. of old Soo Line Ry. R/W	31.51	TAX LANDS	NO
	NW1/4-SE1/4, that part N. of old Soo Line Ry. R/W	31.24	TAX LANDS	NO

		62.75		
A-21-047-23				
	E1/2-NW1/4	80.00	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		240.00		
A-22-047-23				
	N1/2-NE1/4	80.00	SCHOOL	YES
	S1/2-NE1/4	80.00	TAX LANDS	YES
	N1/2-NW1/4	80.00	TAX LANDS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	TAX LANDS	NO
	NE1/4-SE1/4, that part N. of old Soo Line Ry. R/W	39.54	TAX LANDS	YES
	NW1/4-SE1/4, that part N. of old Soo Line Ry. R/W	38.45	TAX LANDS	YES

		437.99		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-23-047-23				
	W1/2-NE1/4	80.00	TAX LANDS	NO
	SE1/4-NE1/4	40.00	TAX LANDS	NO
	W1/2	320.00	TAX LANDS	NO
	W1/2-SE1/4	80.00	TAX LANDS	NO

		520.00		
A-24-047-23				
	NE1/4-NE1/4	40.00	SCHOOL	NO
	W1/2-NE1/4	80.00	TAX LANDS	NO
	NE1/4-SW1/4, except old Soo Line Ry. R/W 1.38 acres	38.62	TAX LANDS	NO
	W1/2-SE1/4, except old Soo Line Ry. R/W 14.66 acres	65.34	TAX LANDS	NO

		223.96		
A-25-047-23				
	NE1/4-NE1/4, except coal and iron	40.00	TAX LANDS	NO
	NW1/4-NE1/4, except coal and iron	40.00	TAX LANDS	NO
	SW1/4-NE1/4, except coal and iron	40.00	TAX LANDS	NO
	SE1/4-NE1/4, except coal and iron	40.00	TAX LANDS	NO
	NE1/4-NW1/4, except coal and iron	40.00	TAX LANDS	NO
	NW1/4-NW1/4, except coal and iron	40.00	TAX LANDS	NO
	SW1/4-NW1/4, except coal and iron	40.00	TAX LANDS	NO
	SE1/4-NW1/4, except coal and iron	40.00	TAX LANDS	NO
	NE1/4-SW1/4, except coal and iron	40.00	TAX LANDS	NO
	W1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4-SW1/4, except coal and iron	40.00	TAX LANDS	NO
	NE1/4-SE1/4, except coal and iron	40.00	TAX LANDS	NO
	W1/2-SE1/4	80.00	TAX LANDS	NO
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		640.00		
A-26-047-23				
	Und. 7/12 of NE1/4-NE1/4	40.00	TAX LANDS	NO
	Und. 5/12 of NE1/4-NE1/4		NREG MINS	NO
	W1/2-NE1/4	80.00	TAX LANDS	NO
	SE1/4-NE1/4	40.00	TAX LANDS	NO
	NE1/4-NW1/4	40.00	TAX LANDS	NO
	NW1/4-NW1/4	40.00	SCHOOL	NO
	S1/2-NW1/4	80.00	TAX LANDS	NO
	N1/2-SW1/4	80.00	NREG MINS	NO
	SW1/4-SW1/4	40.00	SCHOOL	YES
	Und. 7/12 of SE1/4-SW1/4	40.00	TAX LANDS	NO
	Und. 5/12 of SE1/4-SW1/4		NREG MINS	NO
	SE1/4	160.00	NREG MINS	NO

		640.00		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
<hr/>				
A-27-047-23				
	N1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		240.00		
A-28-047-23				
	E1/2-NE1/4	80.00	TAX LANDS	NO
	SW1/4-NW1/4	40.00	TAX LANDS	NO
	S1/2-SW1/4	80.00	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		360.00		
A-29-047-23				
	NE1/4-NE1/4, the S1/2	20.00	TAX LANDS	YES
	NE1/4-NE1/4, the N1/2	20.00	TAX LANDS	NO
	NW1/4-NE1/4	40.00	TAX LANDS	NO
	E1/2-NW1/4	80.00	TAX LANDS	YES
	NE1/4-SW1/4	40.00	TAX LANDS	YES
	W1/2-SE1/4	80.00	TAX LANDS	YES
	SE1/4-SE1/4	40.00	TAX LANDS	NO

		320.00		
A-30-047-23				
	NE1/4-SW1/4	40.00	SCHOOL	NO
	LOT03 (NW1/4-SW1/4)	56.31	SCHOOL	NO
	NW1/4-SE1/4	40.00	SCHOOL	NO

		136.31		
A-31-047-23				
	LOT02 (SW1/4-NW1/4)	57.15	TAX LANDS	NO
	SE1/4-NW1/4	40.00	TAX LANDS	NO
	E1/2-SW1/4	80.00	TAX LANDS	NO
	LOT03 (NW1/4-SW1/4)	57.29	TAX LANDS	NO
	LOT04 (SW1/4-SW1/4)	57.43	TAX LANDS	NO
	SE1/4	160.00	TAX LANDS	NO

		451.87		

Aitkin County

MINING UNIT No. CO-SEC-TWP-RNG	Legal Description	Acres	Land Class	Surface Offered
A-32-047-23				
	NE1/4-NE1/4, except 1 acre commencing at the NE corner of NE1/4-NE1/4; thence running S. 208 ft.; thence W. 208 ft.; thence N. 208 ft.; thence E. 208 ft. to place of beginning	39.00	TAX LANDS	NO
	NW1/4-NE1/4	40.00	TAX LANDS	NO
	SE1/4-NE1/4	40.00	TAX LANDS	NO
	NE1/4-NW1/4	40.00	TAX LANDS	NO
	W1/2-NW1/4	80.00	SCHOOL	NO
	S1/2-SE1/4	80.00	TAX LANDS	NO

		319.00		
	Special features or uses: natural heritage feature			
A-33-047-23				
	NE1/4	160.00	TAX LANDS	NO
	S1/2	320.00	TAX LANDS	NO

		480.00		
A-34-047-23				
	N1/2	320.00	TAX LANDS	NO

		320.00		
A-35-047-23				
	NE1/4-NE1/4	40.00	TAX LANDS	NO
	NW1/4-NE1/4	40.00	TAX LANDS	YES
	S1/2-NE1/4	80.00	TAX LANDS	NO
	NW1/4	160.00	TAX LANDS	YES
	SW1/4	160.00	TAX LANDS	NO
	NE1/4-SE1/4	40.00	TAX LANDS	YES
	NW1/4-SE1/4	40.00	TAX LANDS	NO
	S1/2-SE1/4	80.00	TAX LANDS	YES

		640.00		
A-36-047-23				
	FULL SECTION	640.00	SCHOOL	YES

		640.00		

Citizen Petition Signatures
Requesting Environmental Assessment Worksheet
for Proposed Minnesota Department of Natural Resources
October 2012 Mineral Lease Auction

More than 160 signatures are attached requesting an EAW.

Please note that some pages are single-sided and some are double-sided.

**PETITION FOR ENVIRONMENTAL ASSESSMENT WORKSHEET
FOR OCTOBER 2012 STATE METALLIC MINERALS LEASE SALE**

WHEREAS State Metallic Minerals Leases up for auction in October 2012 may have the potential for significant environmental effects on natural resources such as groundwater near existing drinking water wells, designated trout streams, popular fishing lakes, wetlands, and areas of high biological diversity, including areas immediately adjacent to Tettegouche State Park; and

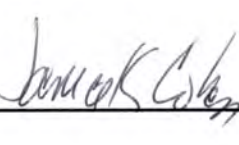
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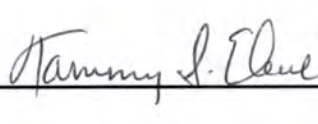
WHEREAS the State of Minnesota is proceeding with plans for an extensive copper-sulfide mining district without evaluating potential cumulative harms to natural resources, private wells and private property values from prospecting and mining activities; and

WHEREAS existing rules provide no opportunity for public process and assessment of environmental harm at the time when prospecting plans are approved by the State,

THEREFORE, the undersigned persons request that the Minnesota Department of Natural Resources provide an Environmental Assessment Worksheet for its proposed October 2012 Minerals Lease Sale.

FULL NAME (PRINT CLEARLY)	SIGNATURE	ADDRESS	CITY, STATE, ZIP	EMAIL (PRINT CLEARLY)
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JANICE K. COHEN		1602 MN Ave Duluth	MN	jkcohen63@gmail
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Tammy S. Elwell		1621 E 15th St Duluth	MN 55812	tamtam014@yahoo.com
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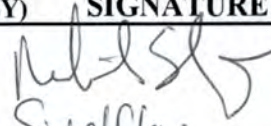
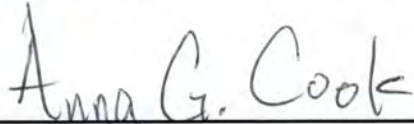
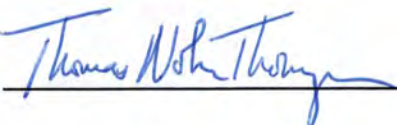
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FULL NAME (PRINT CLEARLY)	SIGNATURE	ADDRESS	CITY, STATE, ZIP	EMAIL (PRINT CLEARLY)
Melinda Suefflow		PO Box 511 000000	55603 Finland MN	melindasuefflowe@yahoo.com
Anna G. Cook		2629 Skyline Parkway	Duluth, MN	annagcook@gmail.com
Thomas Noh Thompson		1370 White Lake Dr.	Duluth, MN 55803	thomasthompsonso@frontier.com

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FOR OCTOBER 2012 STATE METALLIC MINERALS LEASE SALE**



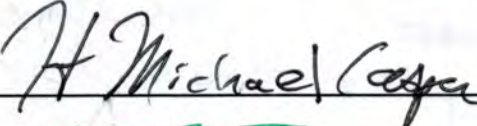

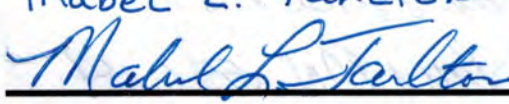
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FULL NAME (PRINT CLEARLY)	SIGNATURE	ADDRESS	CITY, STATE, ZIP	EMAIL (PRINT CLEARLY)
Rock W Anderson		5774 Lax Lake Rd.	Silver Bay, MN 55614	
Mary Jo Yainton		5716 Lax Lake Rd	Silver Bay MN 55614	
H Michael Capra		5460 Lax Lake Rd.	Silver Bay, MN 55614	
Melodie Riosloff		5736 Lax Lake Rd	SILVER BAY 55614	regtenn@hotmail
Mabel L. Tarlton		5732 Lax Lake Rd	Silver Bay MN 55614	mabel@LaxLake.com

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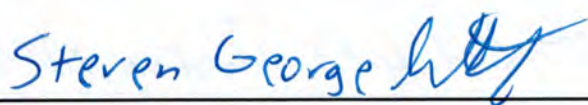

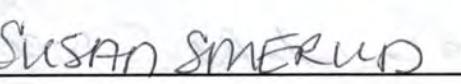
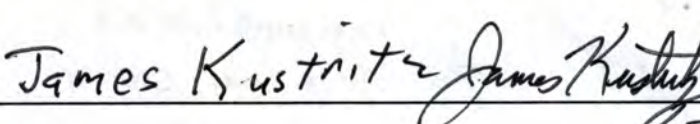
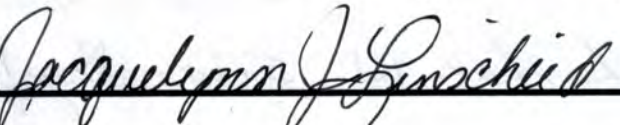
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FULL NAME (PRINT CLEARLY)	SIGNATURE	ADDRESS	CITY, STATE, ZIP	EMAIL (PRINT CLEARLY)
Steven George		PO Box 535	Finland, MN 55603	vent@stbcglobal.net
Vicki Tracy		2941 N. Highway Ave Chassak, MN 55618		thevicki@gmail.com
SUSAN SMERUD		5816 LAX LAKE SILVER BAY MN 55614		smud64@gmail.com
James Kustritz		6589 Park Hill Rd	Finland MN 55603	
		5850 Lax Lake Rd.		
Jacquelyn J. Linscheid		Silver Bay, MN	55614	

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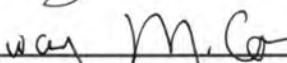
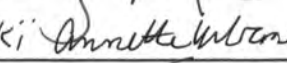



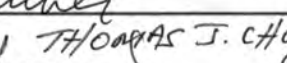
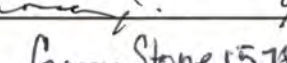
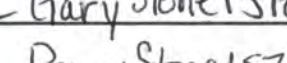
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FULL NAME (PRINT CLEARLY)	SIGNATURE	ADDRESS	CITY, STATE, ZIP	EMAIL (PRINT CLEARLY)
Liz Doane		1315 240 th Street	St. Cloud, MN 56301	liz.doane@doane.edu
Margie Conway		7050 IGH, MN	Baldert. 55077	MekConway@hotmail.com
Annette Urbaniski		4151 88th Ln NE	Circle Pines MN 55014	banski@prodigy.net
FLORENCE SANDOK		1516 13 th East	Rochester NE 55906	fsandok@charter.net
Joy Schochet		2310 Rose Ln	Ely, MN 55731	
Diane Bulkes		117847	MT 169	47 PETER 257847
Thomas J. Chou		965 E. Camp St.	Ely	SNOWFLAKE.Algorithms@Google.com
Gary Stone		1578 Bearhead Park Rd	Ely	
Penny Stone		1578 Bearhead St	PKRD Ely	

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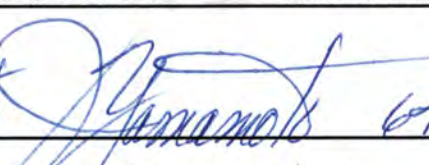
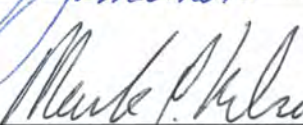

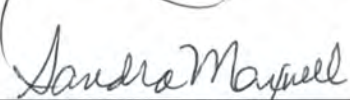
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FULL NAME (PRINT CLEARLY)	SIGNATURE	ADDRESS	CITY, STATE, ZIP	EMAIL (PRINT CLEARLY)
Joyce Yamamoto		6452 Hwy 61E Silver Bay MN		
Mark C. Nelson		6167 Lake Rd. Finland, MN.		55604
Katherine A. Nelson		6167 Lax Lake Rd Finland		55603
Sandra Maxwell		6185 Lax Lake Rd	Finland, MN	55603

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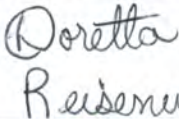

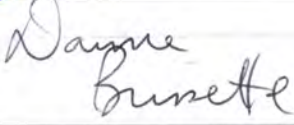
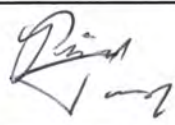
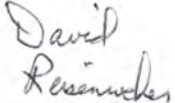
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FULL NAME (PRINT CLEARLY)	SIGNATURE	ADDRESS	CITY, STATE, ZIP	EMAIL (PRINT CLEARLY)
Doretta Reisenweber		111 Garden St	Duluth MN 55812	dorierduluth@ hotmail.com
Jessica Tatro		3216 Hennepin Ave	Mpls MN 55408	jessica.tatro@ sierraclub.org
Dawn Brissette		5307 E. Superior St	Duluth 55804	mail@richardtosse ↑
Richard Toseland		5307 E. Superior St	Duluth MN 55804	same
David Reisenweber		111 Garden St Duluth MN	Duluth MN 55812	bigwater@cleanwine .net

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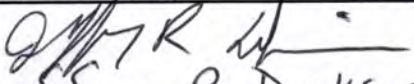
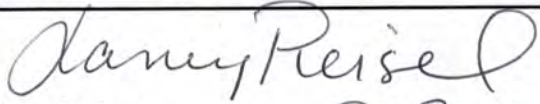
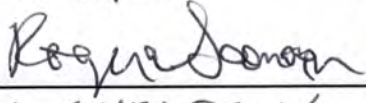
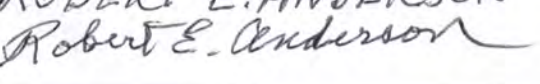

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FULL NAME (PRINT CLEARLY)	SIGNATURE	ADDRESS	CITY, STATE, ZIP	EMAIL (PRINT CLEARLY)
Jeffrey R. Dickson		P.O. Box 660 Finland MN 55603	Finland MN 55603	geopoet2@gmail.com
NANCY PIERSEL		PO Box 1660 FINLAND MN 55603	FINLAND MN 55603	geopoet2@gmail.com
ROGER SAAMANEN		1058 SKI HILL RD. TWO HAWKS, MN 55616	TWO HAWKS, MN 55616	
ROBERT E. ANDERSON		5718 LAX LAKE RD SILVER BAY, MN. 55614	SILVER BAY, MN. 55614	
Paul Johnson		5563 LAX LAKE RD Silver Bay Mn 55614	Silver Bay Mn 55614	

**PETITION FOR ENVIRONMENTAL ASSESSMENT WORKSHEET
FOR OCTOBER 2012 STATE METALLIC MINERALS LEASE SALE**

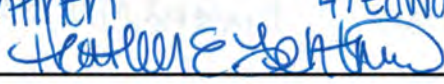

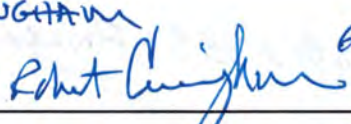

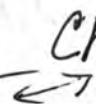
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Heather E. Lentinen		47 Edwards Dr.	Silver Bay, MN 55614	
Erin Manning		6587 Park Hill Rd.	Finland, MN 55603	emanni29@hotmail.com
ROBERT P CUNNINGHAM		6185 LAX LAKE RD	FINLAND MN.	
Matt Tyler		6722 Park Hill Rd.	Finland MN 55603	tyler0045@gmail.com
Chris Kustritz		6589 Park Hill Rd	Finland MN 55603	

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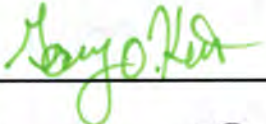
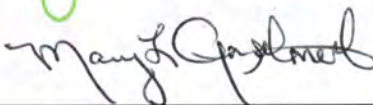



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Gary O. Kent		Box 433	Finland, MN. 55603	
MARY L. Anselment		13 DRAKE	Silver Bay, MN 55614	
AMELIA GEORGE		Po Box 535	FINLAND, MN 55603	
Honor Schunaberger		9609 Arrowhead Rd	Isabella, MN 55607	
Kaare Melby		5782 Little Marais Rd.	Finland, MN 55603	

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GARY CLEMENTS	<i>[Signature]</i>	1362 Lincoln, ST. PAUL, MN 55105	ST. PAUL, MN 55105	gclements@yahoo.com
Jane Clements	<i>[Signature]</i>	1335 Wash Rd, Ely, MN 55731	Ely, MN 55731	jane4chire@yahoo.com
BARB BURNS	<i>[Signature]</i>	3995 Stocking Pt Rd Ely, MN 55731	Ely, MN 55731	elyburns2@yahoo.com
Mark Pratt	<i>[Signature]</i>	1364 Peninsula Rd Ely, MN 55731	Ely, MN 55731	
NANCY ROE	<i>[Signature]</i>	1685 BRADACH RD ELY, MN 55758	ELY, MN 55758	WALLDOG FRONTIER.NET
GAYLOR DAVIS	<i>[Signature]</i>	1685 Bradach Rd Ely, MN 55731	Ely, MN 55731	11 11 MIE
Maurice E. Rich	<i>[Signature]</i>	3877 SWANSON STARS RD. ELY, MN	ELY, MN	FRESHIRE FRONTIER.NET
Doug Siveshus	<i>[Signature]</i>	3823 Dorem Dr Ely, MN 55731	Ely, MN 55731	
Dan Hume	<i>[Signature]</i>	1220 WASH RD Ely, MN 55731	Ely, MN 55731	
Geoff Urban	<i>[Signature]</i>	1018 Willow Trail Faribault, MN 55024	Faribault, MN 55024	geoff.urban@yahoo.com

all from Eagles Nest

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FOR OCTOBER 2012 STATE METALLIC MINERALS LEASE SALE**

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Amy Gardner	<i>Amy Gardner</i>	PO Box 446 Finland, MN 55603	Finland, MN 55603	ourkaya1@gmail.com
Michelle Duhan	<i>Michelle Duhan</i>	PO Box 456 Finland, MN 55603	Finland, MN 55603	riversiderep1@gmail.com
Elli King	<i>E King</i>	PO Box 526 Finland, MN 55603	Finland, MN 55603	bushsugar@live.com

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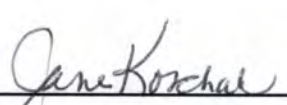
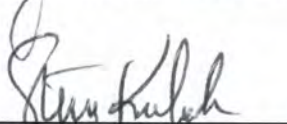
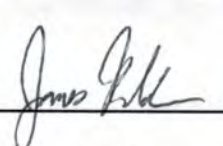

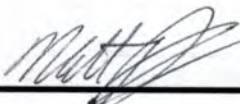
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Jane Koschak		P.O. Box 397	ELY, MN 55731	jane.koschak@gmail.com
STEVEN L. KOSCHAK		P.O. Box 397	ELY, MN 55731	slk.koschak@gmail.com
JAMES S. KOSCHAK		1329 E. HARVEY ST.	ELY, MN 55731	james.koschak@gmail.com
THOMAS G. KRUMME		8725 BIRCH LK. RD	ELY, MN 55731	tg.krumme@gmail.com
Matthew Haekenkamp		14 W. Chapman	ELY, MN 55731	mhaekenkamp@yahoo.com

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[illegible]

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Caroline Owens	<i>Caroline Owens</i>	1325 Triggs Rd	Ely MN 55731	joccarolin@aol.com
JOSEPH F. OWENS	<i>Joe Owens</i>	13007X66 RD	ELY, MN 55731	11
Betty Jo Kubierski	<i>Betty J. Kubierski</i>		Ely, MN 55731	bjtkub@frontier.net
Teresa K. Sagen	<i>Teresa K. Sagen</i>	13667 Deer Rd	Ely, MN 55731	

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Nick Banovetz	[Signature]	1649 Dayton Ave	St. Paul, MN 55101	banovetz@gmail.com
Harv Snyder	[Signature]	P.O. Box 270 Ely, MN		whitshell@aol.com
Steven M. Hoffman	[Signature]	2408 Brady Path	Inver Grove, MN 55076	
DONALD E. WILLIAMS		12978 E. RIDGE RD	Ely 55731	DEW43@aol.com
Gerard Snyder		P.O. Box 270 Ely MN		
Phil Hogan		1902 Pine Tree Trail	Ely MN 55731	phogan@frontier.net
Nicole Rom		2514 Lyndale Ave S.	Mpls, MN 55405	nicokrom@hotmail.com
Barbara Durnea		10602 Ferner Ave SE	Delano, MN 55328	buddypops@yahoo.com
Doris Ann Lawson Gerdes		10566 Hwy 1, Isabella	MN 55607	digerdes@frontier.com
Lynden B. Gerdes	[Signature]	10566 Hwy 1, Isabella	MN 55607	lbgendes@frontier.com

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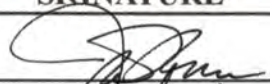
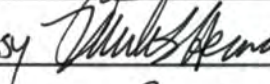
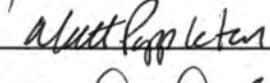
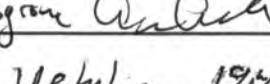

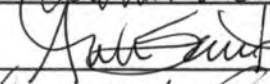
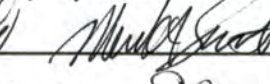
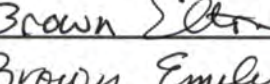
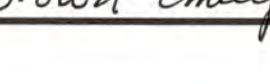

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Joe Bianco		300 W. Long	Ely MN 55731	joseph.bianco@essentia.com
Mark Hennessy		2127 Twin Bluff Rd.	Red Wing 55066	mark.hennessy@redstetmcc.com
Matt Poppleton		2015 James	St. Paul 55105	mattpoppleton@gmail.com
Ann Albrecht-Cisner		756 Widska Circle	Wayzata MN 55391	anncosgrove51@gmail.com
Anne Stewart		1940 Pine Tree Trl	Ely, MN 55731	astewart42@gmail.com
Chris Williams		C Ridge Rd	Ely MN 55731	
Ann Santo		35 E. Corn St.	Ely MN 55731	
Mark A. Santo		35 E Corn St.	Ely, MN 55731	
Elton W. Brown		1603 Hanson Rd	Ely 55731	ewbrown2@me.com
Emily M Brown		1603 Hanson Rd	Ely 55731	ewbrown@frontiernet.net

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Maureen K. Johnson	<i>Maureen Johnson</i>	6763 253rd Ave NE	Stacy MN 55079	
JAMES T. HART	<i>James T. Hart</i>	1458 Bear Head St. Rt. Rd, Ely, MN 55731		jthart@frontiernet.net
Bruce L Johnson	<i>Bruce Johnson</i>	6763 253rd Ave NE	Stacy MN 55079	
ELLEN CASHMAN	<i>Ellen Cashman</i>	206 E. Sheridan St. Ely, MN 55731		barebones@frontiernet.net
Reid Carron	<i>Reid Carron</i>	3100 Hartley Pt. Rd, Ely, MN 55731		reid-carron@notmail.com
RON BRODIEAN	<i>Ron Brodiean</i>	1350 5TH AVE TRAIL	ISABELLA MN	
Stephen J. Snyder	<i>Stephen J. Snyder</i>	4601 Sunnyside Rd Edina, MN 55424		Stephen.Snyder@snyderattorneys.com
Cynthia Snyder	<i>Cynthia Snyder</i>	4601 Sunnyside Rd Edina MN 55424		snydereindy@gmail.com
Rolf Thompson	<i>Rolf Thompson</i>	617 MAIN ST. E, WARASHA MN 55981		rolf.m.thompson@gmail.com
BJB Winkelman	<i>BJB Winkelman</i>	529 E Sheridan Ely MN 55731		FrancisWinkelman@notmail.com

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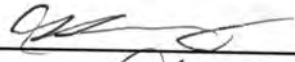
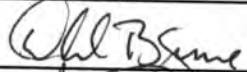

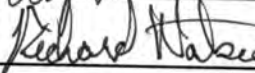

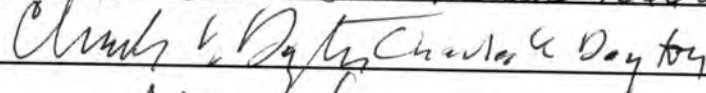
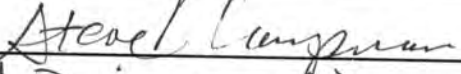



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		11420 110th St	Cologne MN 55322	
Dodd B Cosgrove		756 Widsten Circle	Wayzata MN 55391	dodd.cosgrove@gmail.com
Betty Fureh		42 N Klondike	Ely, MN 55731	bffureh@frontier.net
Richard Watson		14 E Boundary St.	Ely, MN 55731	rwatson@gmail.com
Sara M. Evans		1666 Coffman St #133	Falcon Heights MN 55108	saraevans1888@gmail.com
Charles & Day		" "	" "	chuckday@gmail.com
Steve Lampman		1321 N. Hwy 21	Ely, MN 55731	slampman@frontier.net
Paul Danicic		2721 IDAHO Ave S	SLP 55426	
Barbara Dunsmore		10602 Fenner Ave. S.E.	Delano, MN 55328	
Laverne Dunsmore		10602 Fenner Ave. S.E.	Delano, MN 55328	buddypops@frontier.net

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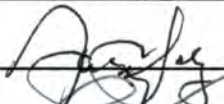
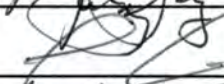
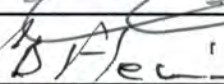
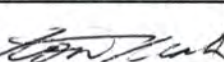
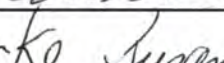
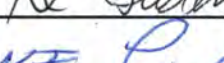

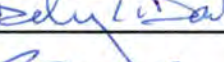
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FULL NAME (PRINT CLEARLY)	SIGNATURE	ADDRESS	CITY, STATE, ZIP	EMAIL (PRINT CLEARLY)
Nancy Schultz		NH Forest 9926 Ldg Rd	Isabella, MN 55607	n2chu42@cr-bps.
Jan Kinn		921 W 6th St, Virginia, MN 55806		jan.kinn@kinn.com
Pete Fleming		6517 Crackleberry Ln	Woodbury, MN 55119	peteflem@comcast.net
Tom Mahlum		5312 Chantrey Ln	Edina, MN 55436	tmahlum@kmc.com
Susan Schurke		1101 Ring Rock Rd	Ely, MN 55731	
Paul Schurke		1101 Ring Rock Rd	Ely, MN 55731	
Betsy Daub		1395 Arlington Ave W.	S. Paul, MN 55108	
Greg Seitz		1115 Gordon Ave	Maplewood, MN 55101	daubandshert@krael.com

**PETITION FOR ENVIRONMENTAL ASSESSMENT WORKSHEET
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[illegible]

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Sharon Angell Magliulo	S.A. Magliulo	821 E. Pattison	Ely MN 55731	smagliulo55731@gmail.com
Linda A. Lewis	Linda Lewis	311 S Central #3	Ely MN 55731	@yaho
Cecilia Rolando	CECILIA ROLANDO	PO Box 194,	Ely, MN 55731	crdesign19@gmail.com
Robert Beate	[Signature]	1340 1st Ave E	Ely MN 55731	RobertBeate@gmail.com
VALERIE NESTERVIL	[Signature]	304 E WHITE ST	ELY MN 55731	VALERIEMEST@GMAIL.COM
CHIP HANSON	[Signature]	304 E WHITE ST	ELY MN 55731	CHIPHANSE@CITILINK.NET
Carol Orban	Carol Orban	2 E. Conant St.	Ely MN 55731	CarolOrban46@gmail.com
Will Hauser	[Signature]	821 E. Pattison ST.	Ely, MN 55731	
WILL HAUSER	[Signature]			
MARCIA Chambers	Marcia Chambers	1118 Ring Rock Rd	Ely	5152wolf@aol.com
Evy Chambers				

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BRADLEY SAGEN	<i>Bradley Sagen</i>	13667 Deer Rd	Ely, MN 55731	brad-sagen@hotmail.com
Andrew Urban	<i>Andrew Urban</i>	1347 Walsh Rd	Ely MN 55731	urbshop@frontiernet.net
Elizabeth Urban	<i>Elizabeth Urban</i>	1347 Walsh Rd	Ely MN 55731	
Jim Leick	<i>James Leick</i>	6550 STEVENS RD	Duluth MN 55803	
Linda Suter	<i>Linda Suter</i>	12773 47 th St NE	St Michael, MN 55376	
Michael Gilgosh	<i>Michael Gilgosh</i>	12773 47 th NE	" " " "	
Maryro Leonard	<i>Theresa Leonard</i>	609 Locust Ln	Woodstock IL 60098	
Joyce Aubol	<i>Joyce Aubol</i>	1952 E. Chub Lake Rd,	Carlton, MN 55712	
Jill Drilling	<i>Jill Drilling</i>	5535 State Hwy	Sandstone, MN 55072	
Richard Hall	<i>Richard Hall</i>	303 E. White St.	Ely mn 55731	

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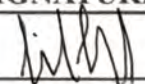
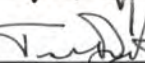
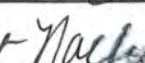
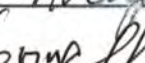
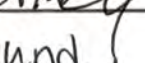
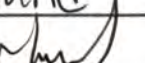
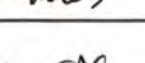
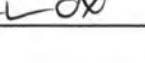


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Mike Molzahn		12337 Endless Waters Rd Ely	55116	mike.f.molzahn@wellsfargo.com
Truman Porter		1640 ELEANOR AVE ST PAUL MN	55116	trporter@ustfamily.net
Naelyn Porter		N Porter "	"	nporter@ustfamily.net
Laughton McConnell		438 Buckwood	ELY	condor6@22.net
Debbie Okerlund		5648 Pillsbury S.	Mpls MN 55419	
Neil Okerlund				
Frank Henn		5341 Zenith Ave S	Mpls MN 55410	
Mike Folger		5341 Zenith Ave S	Mpls MN 55410	
Core Fosse		1161 Lealand Rd	Mpls, MN	rfosse@comcast.net
Richard Fosse		1161 Lealand Rd	Mpls, MN	rfosse@comcast.net

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Rynn Anne Vespa	[Signature]	Fall Lake Rd	Ely, MN 55731	lavesper@gmail.com
Herb LePlatt	[Signature]	707 Chagrin Rd.	Chanhassen MN 55317	herb22@msn.com
Wende Nelson	[Signature]	9 N. Yukon Dr.	Ely MN 55731	wende@frontier.net
Scott Williams	[Signature]	9 N. Yukon Dr	Ely MN 55731	scottwilliams@spokane.com
Robin Haeger	[Signature]	22245 W 35th	Ankeny, IA 50023	
Sarah Hansen	[Signature]	1445.5th Ave E	Ely MN 55731	
Bill Struve	[Signature]	204 W 4th	Waterville, MN 56096	
STEVE & LINDA LAMB	[Signature]	7870 Guild Ct	Apple Valley MN 55124	
JONATHAN GREEN	[Signature]	2316 Rose Lane,	Ely, MN 55731	JONGREEN@AMERITECH.NET

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Mary Loure Fenhur	<i>[Signature]</i>	13330 Pine Rd	Ely, MN	55731
Ron Schipper	<i>[Signature]</i>	730 Alameda Dr	Proctor, MN	55816
Terrence McKenzie Kohrt	<i>[Signature]</i>	16512 Saylor Dr	MTKA, MN	55345
Liv Vislitzka	<i>[Signature]</i>	1393 Highway 169	Ely, MN	55731
WILL HAUSER	<i>[Signature]</i>	821 Potters St.	Ely	MN 55731

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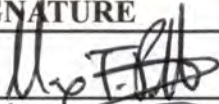
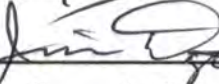
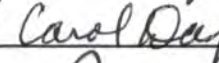
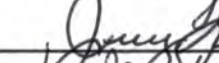

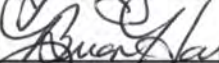
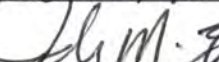
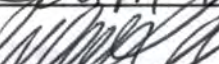
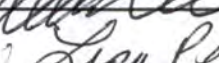
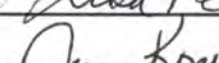
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Max Pittman		1554 Cordwood Ln	Ely, MN 55731	epicadventures2@gmail.com
Jim Dayton		2590 E Rum River Dr. S.	Cambridge, MN 55002	
Carol Dayton		2550 E Rum River Dr. S.	Cambridge, MN 55002	
Jerry GRABLE		14578 MESQUITE DR ORLAND PK, 60467	Orland, IL 60467	Jerry6520comcast.net
Karen Graham		11600 37th Ave N Plymouth, MN 55441	Plymouth, MN 55441	gramkle@comcast.net
Brian Harrington		"	"	harrington.brian@comcast.net
John M. Elk		3076 Hermannland Rd	55811	lek@nwchic.com
DAVE WEBB		315 RIVINGTON RD	DEATH, MN 55804	
Lisa Pekuri		2776 Cedar L. Rd	Ely MN 55731	
Jane Koschak		PO Box 397	Ely MN 55731	