



Northern Cheyenne Tribe

Wind Power Project

Program Review 2006

Ingrid Gardner



Project Overview

- Project began in 2002
- Sole decision maker and final authority
 - » NORTHERN CHEYENNE TRIBE
- Technical Participant
 - » Distributed Generation Systems, Inc.
- Tribal Participant
 - » TRIBAL EDA COMMITTEE
 - » TRIBAL EDA PLANNER



Project Design

- Development Phase Approach

- *Long Term Wind Data Collected*

- » RAWS SITE

- » AIR QUALITY SITES

- » ON-SITE MET TOWERS

- 50 meter tower

- 20 meter tower



Project Design Cont.

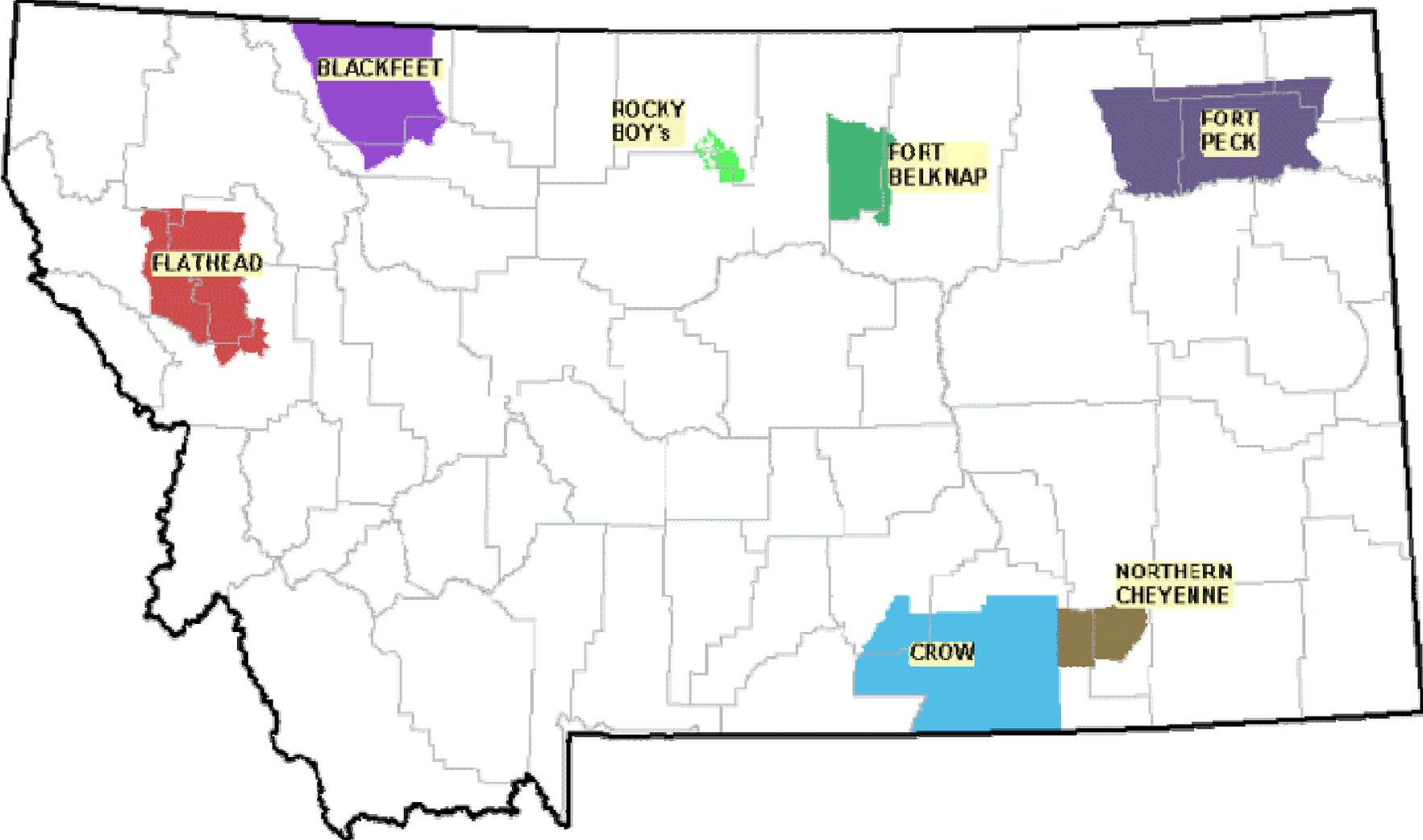
- Pre-Construction Phase
 - » 30 MW Project . . .
 - » 69 KV Line . . .
 - » 20 GE 1.5 MW Turbines . . .

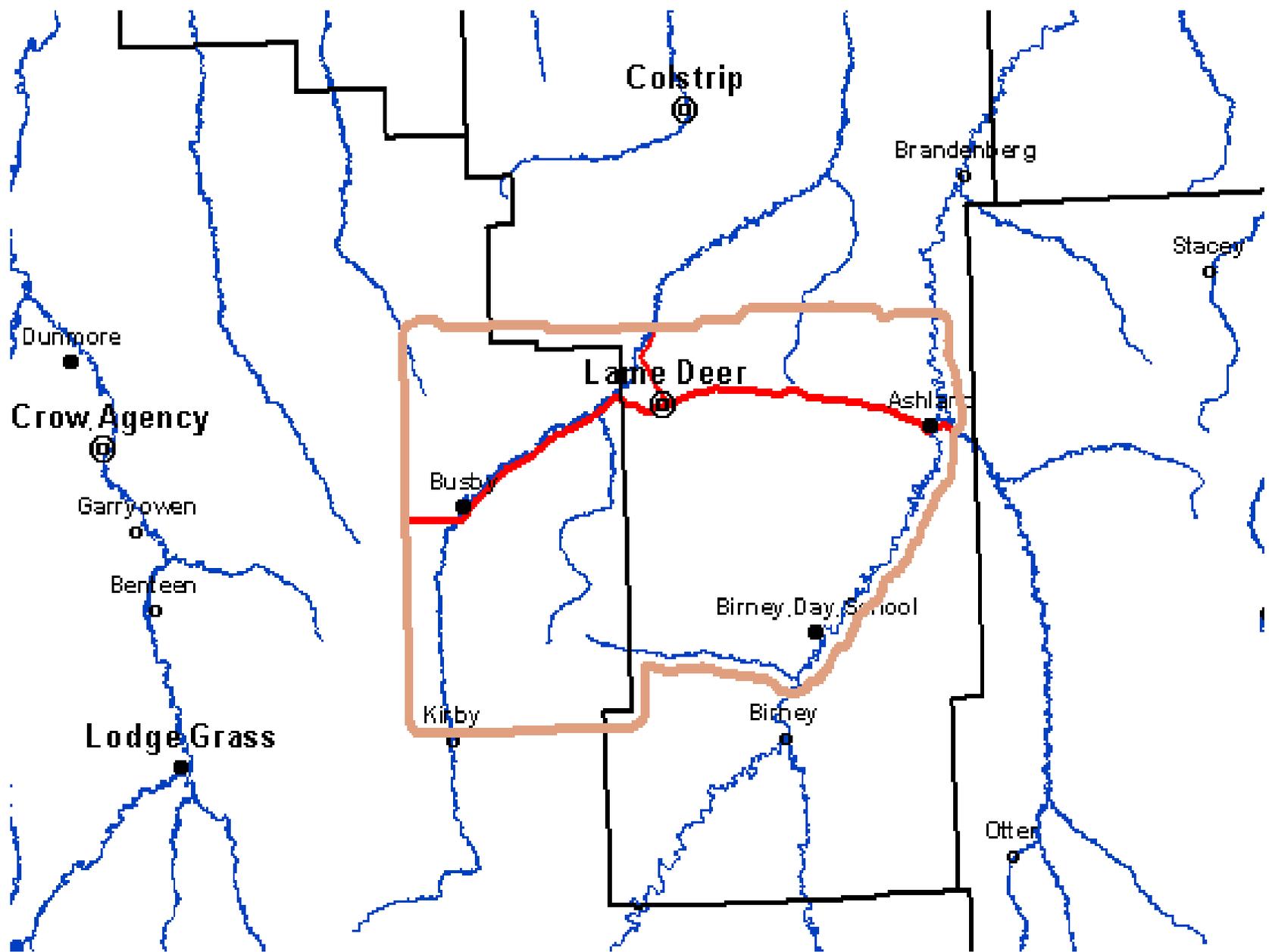


Physical Description

- Located on Tribal Trust Land
 - » Rolling hills and deep ravines
 - » 4200' in elevation
 - » Land Use is grazing
 - » Land Cover is seasonal grasses

MONTANA





Colstrip

Brandenburg

Stacey

Dummore

Crow Agency

Lambe Deer

Ashland

Garryowen

Busby

Benleen

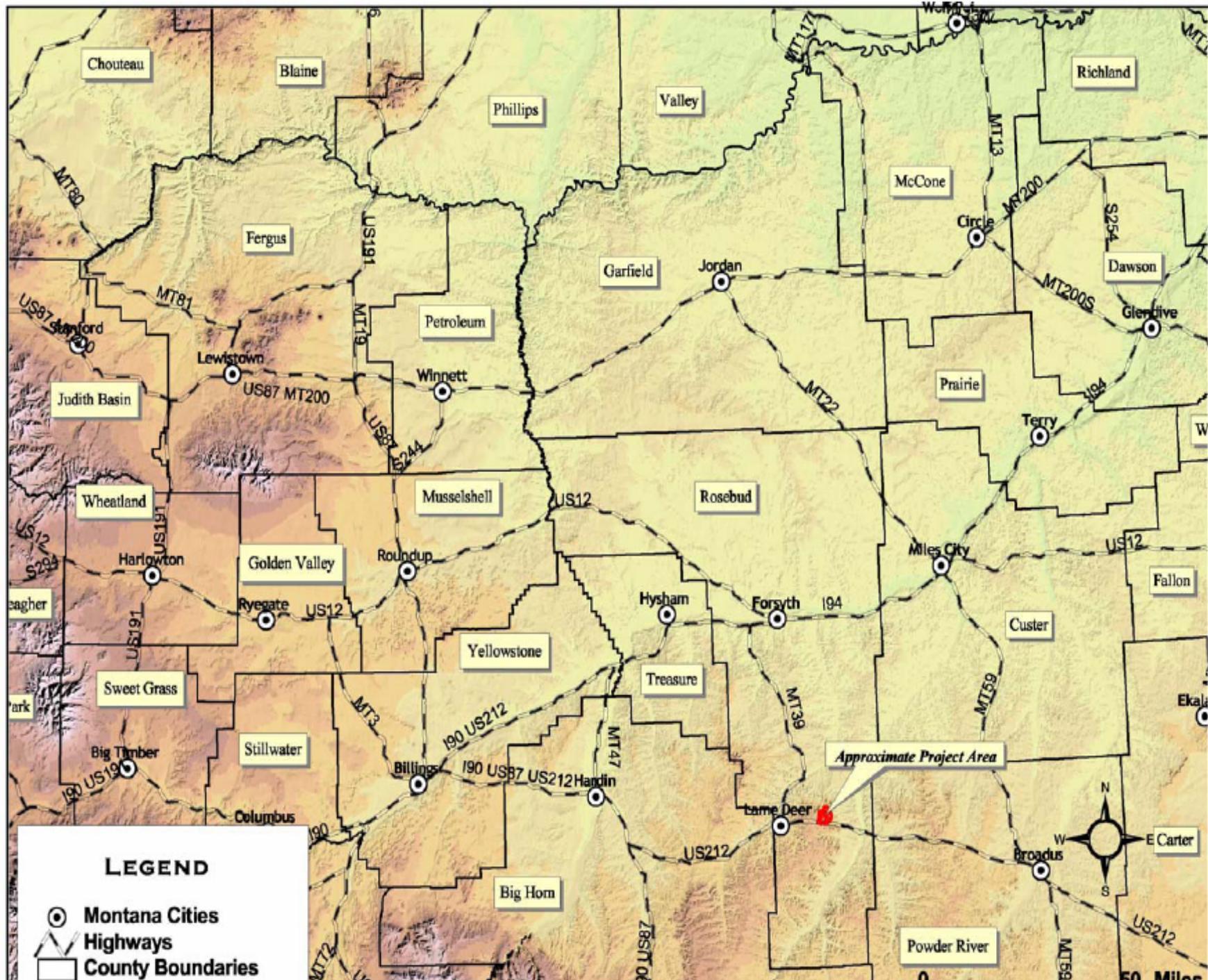
Birney Day School

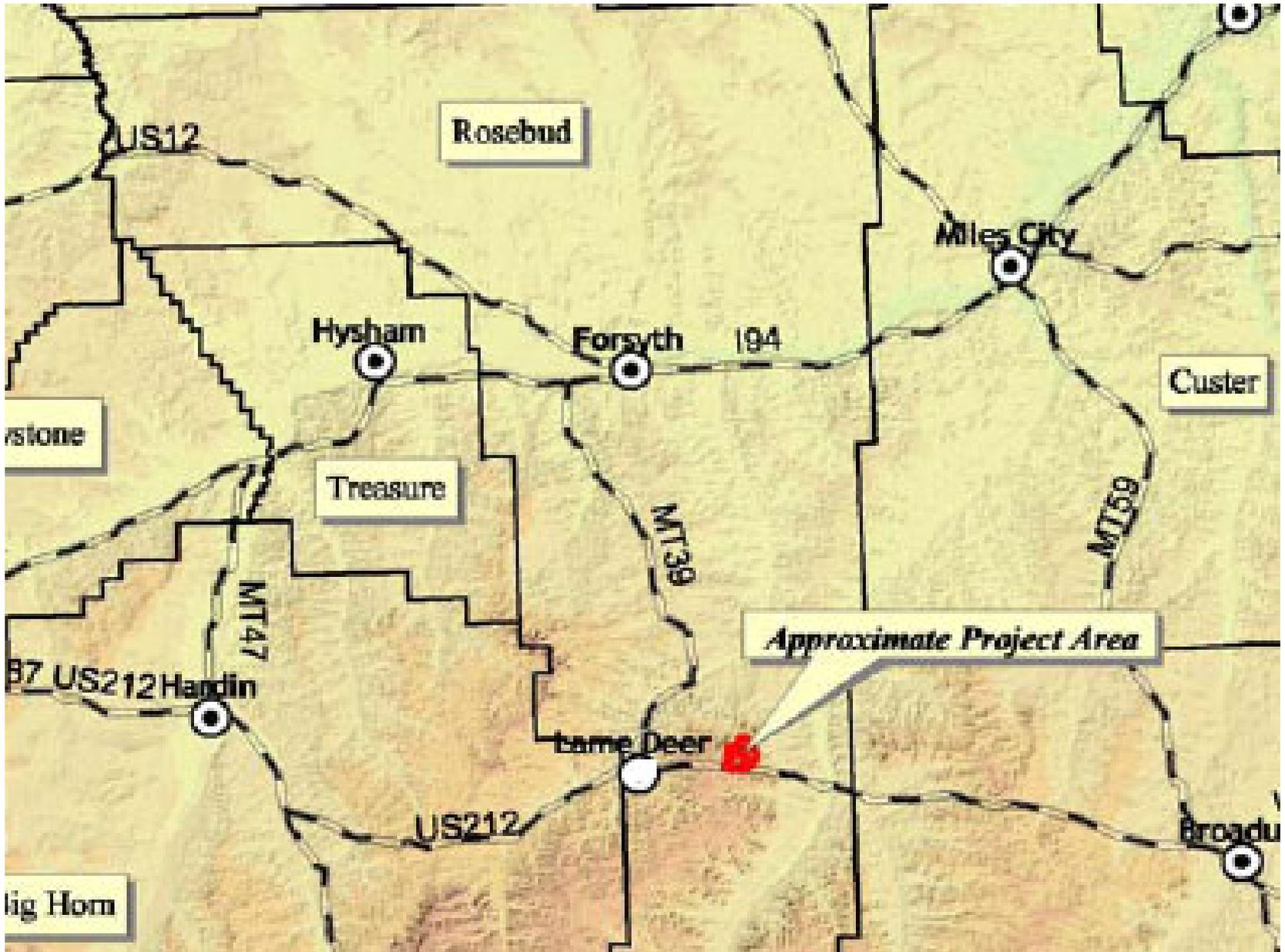
Lodge Grass

Kirby

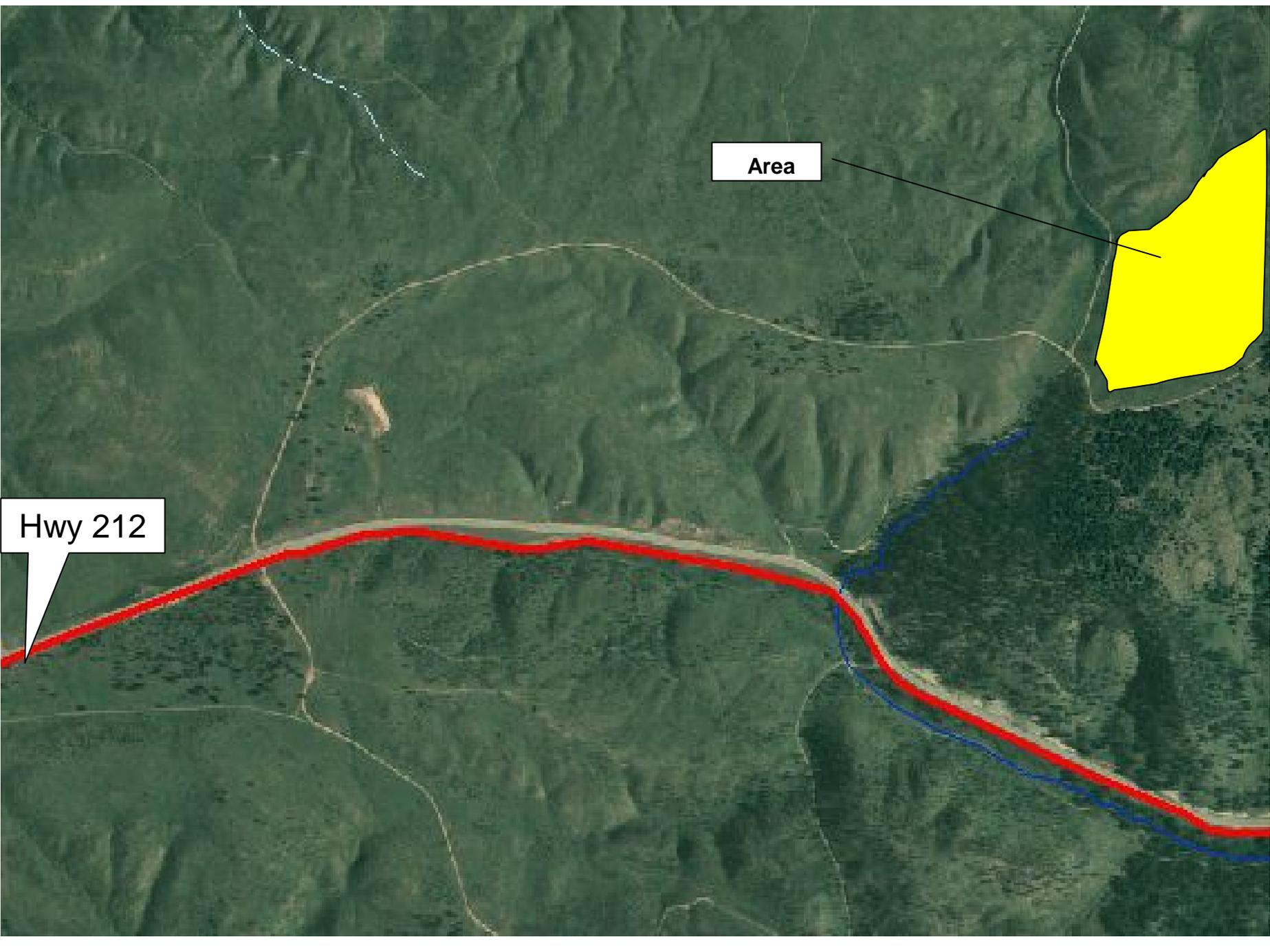
Birney

Otter



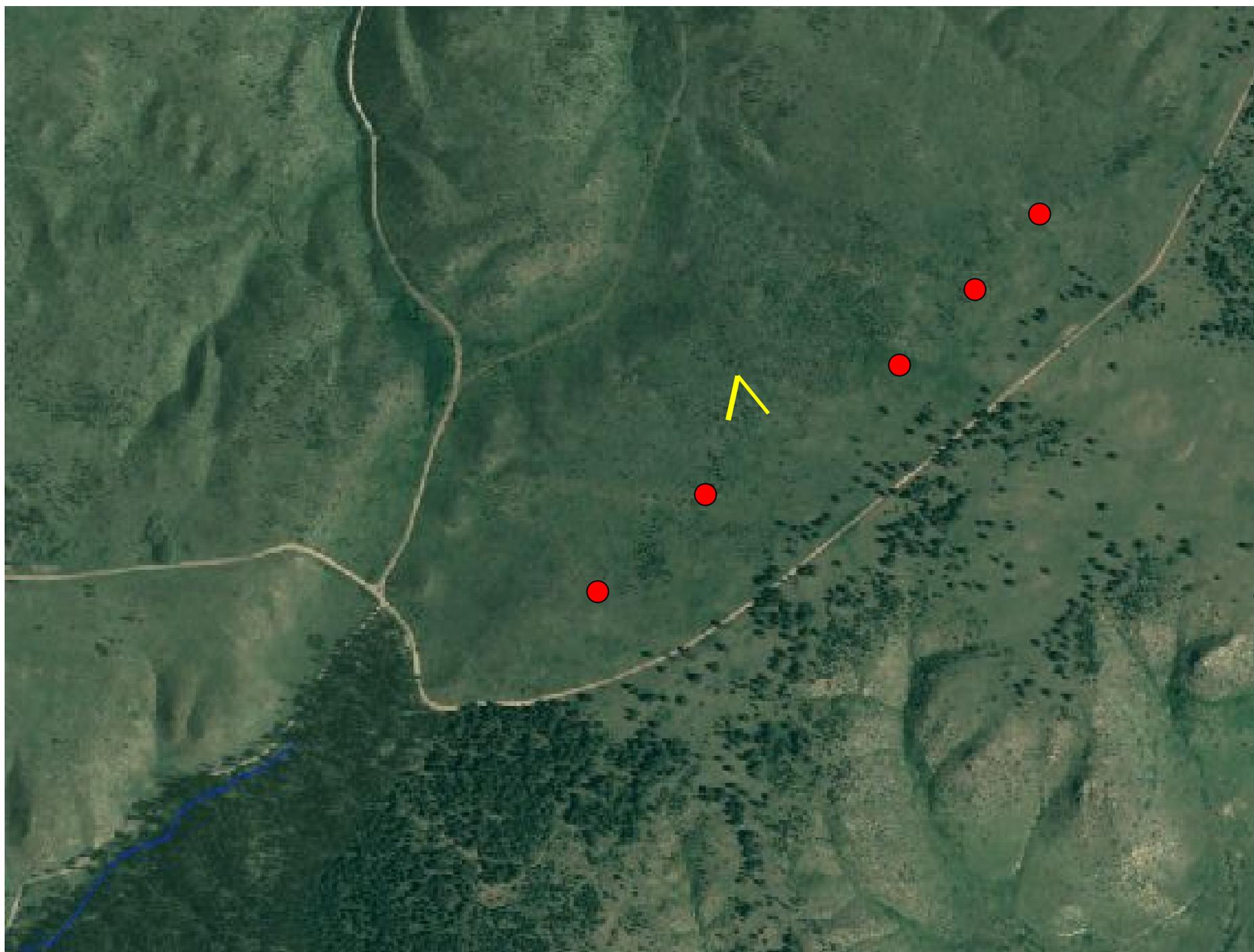


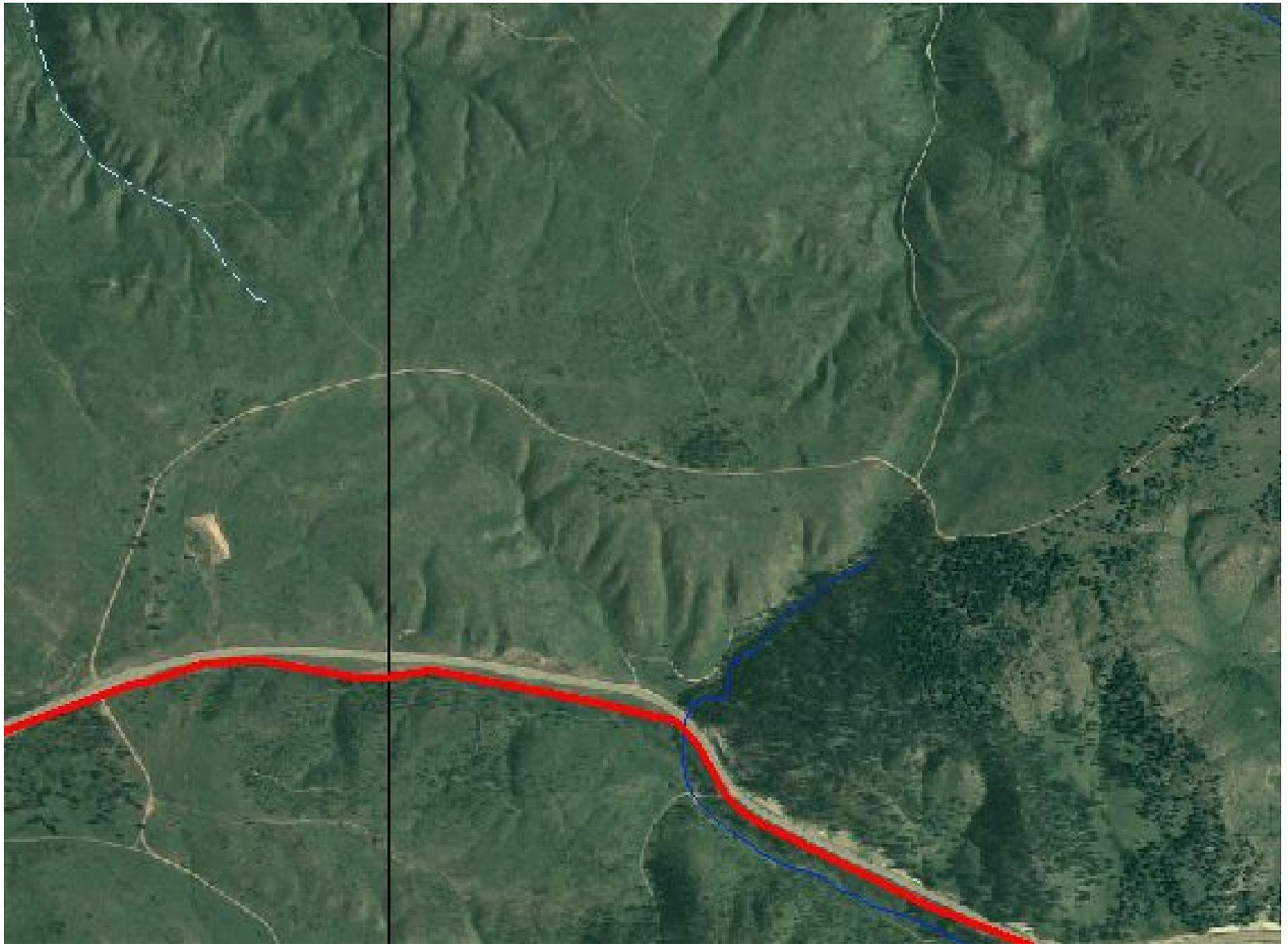




Hwy 212

Area







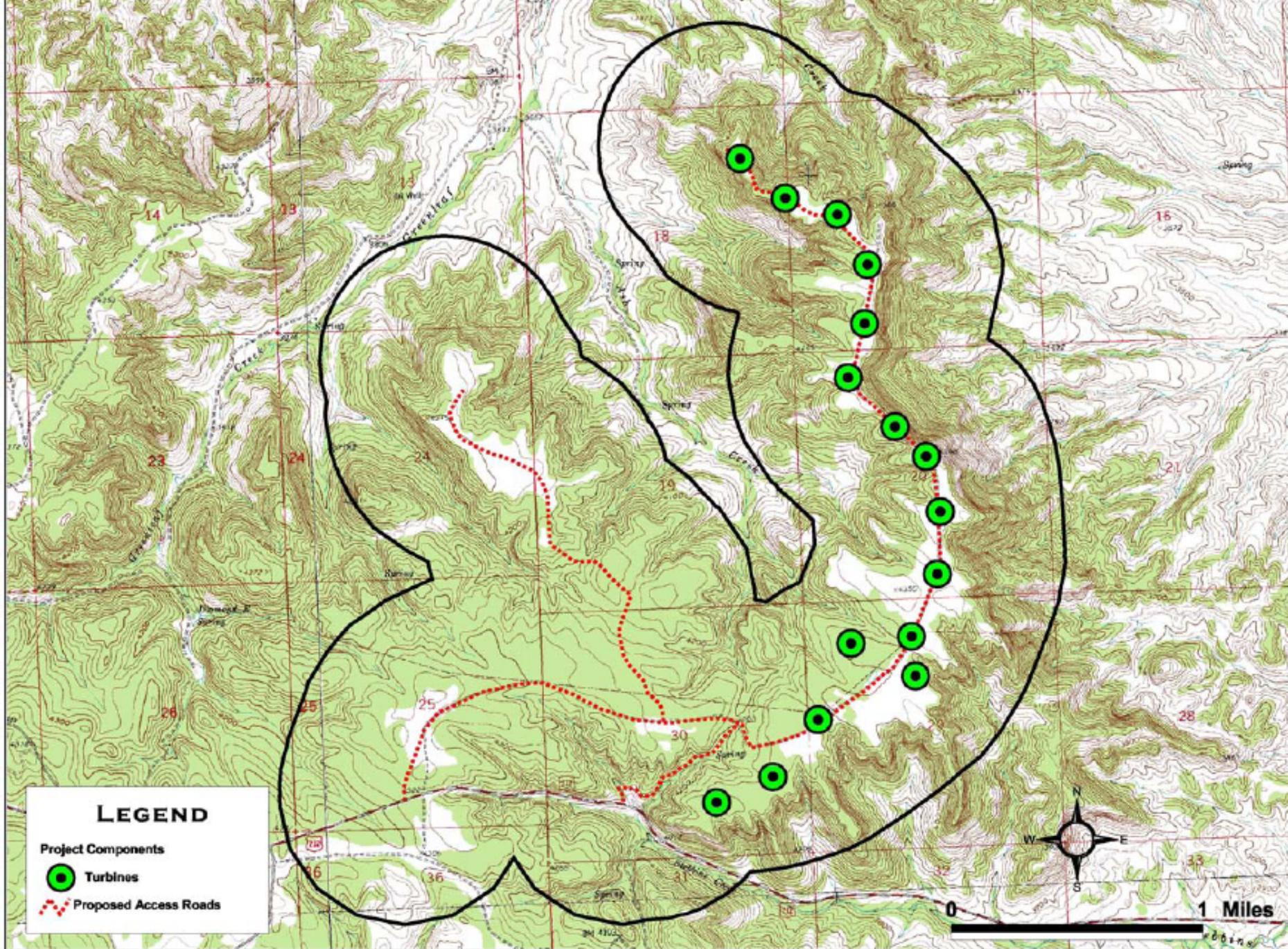


Figure 2. A map showing existing road and proposed turbine locations.

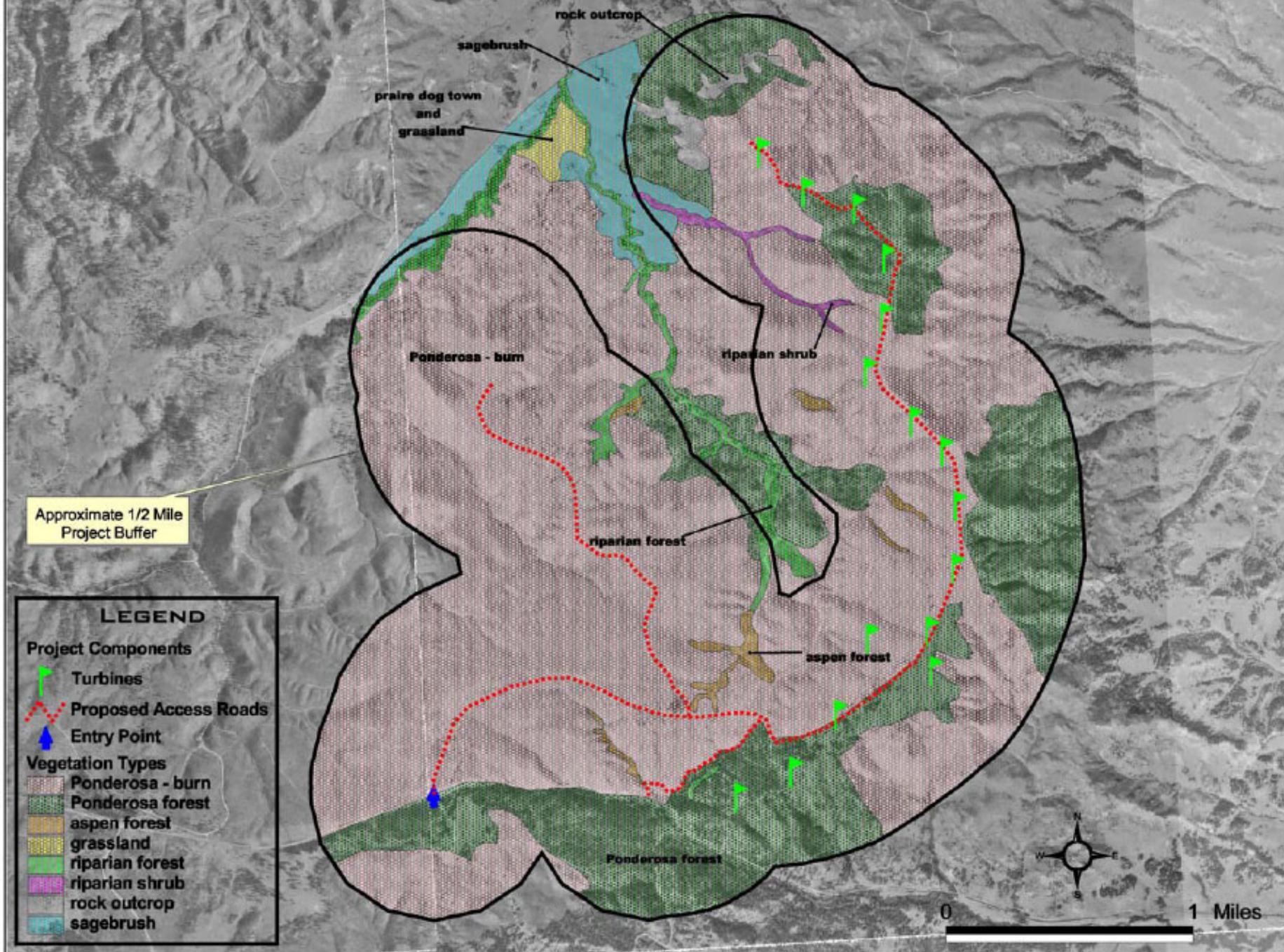


Figure 4. A map of vegetation types in the project area.

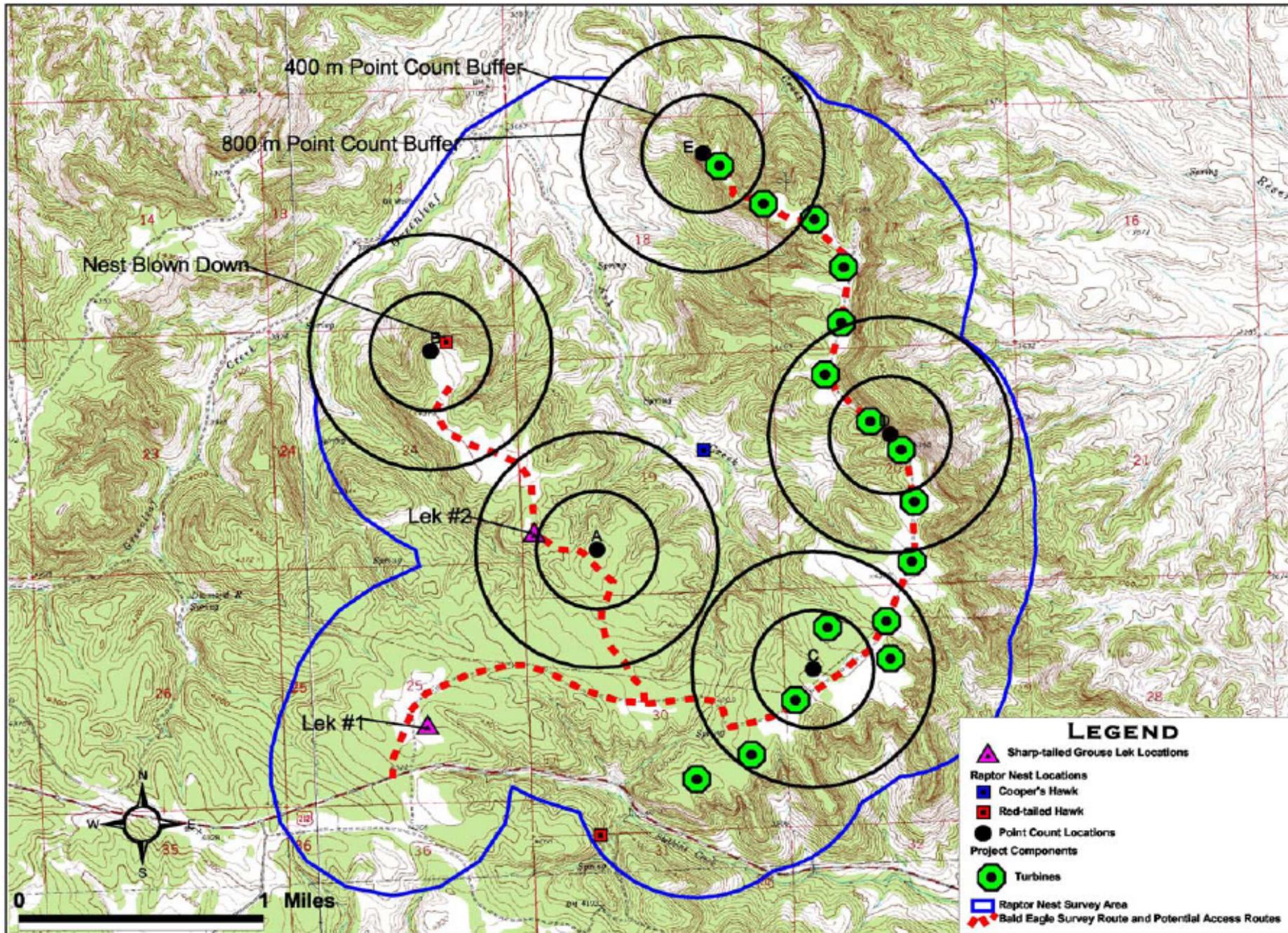


Figure 5. Locations of point counts, eagle survey routes, and raptor nest search areas surrounding the project area.



Project Dynamics

- Environmental Assessment
 - » Phase I Avian Study
 - » Cultural Assessment
 - » Geotechnical Analysis
 - » Biological Assessment Report
 - » Final EA Report
 - » Interconnection Studies



NC Tribe Involvement

- Tribal Government Structure– “Separation of Powers”

Executive – Tribal President

Legislative – Vice President, Council

Judicial - (2) Elected Judges



Tribal Structure cont.

- Established Boards & Committees
 - Natural Resources Board
 - EDA Committee
 - Cultural Resources Board
 - Land Committee



Future Project Plans

- Project Financing- Disgen
 - Available & Marketable Wind
 - STATE & PPA Issues
 - Interconnect Studies
- Project Financing- Tribe
 - Tribal Priorities- other Resource Issues
 - EDA Committee & EDA Planner
- Solution
 - Tribal Energy Team