



# 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.

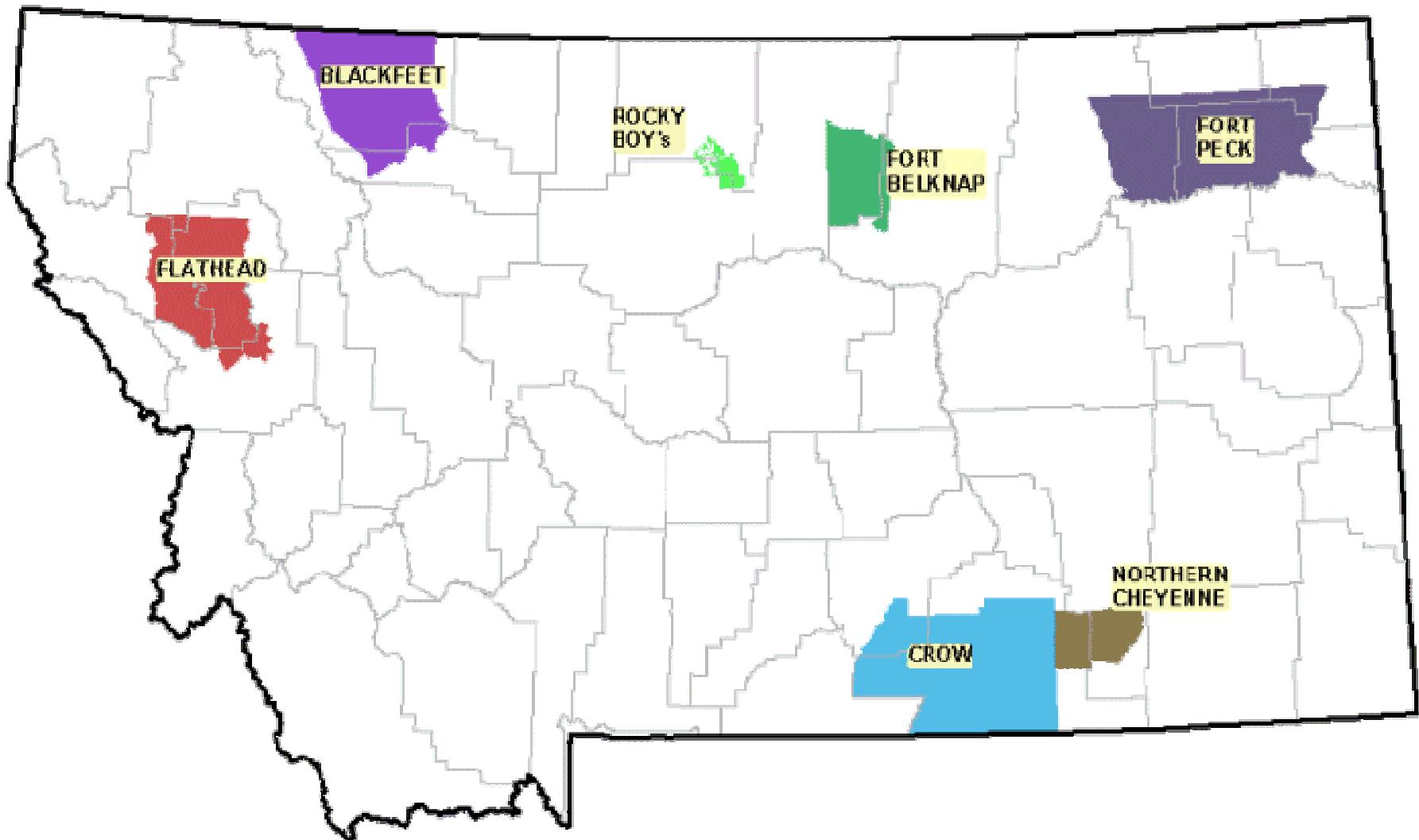
- Pre-Construction Phase
  - » 30 MW Project . . .
  - » 69 KV Line . . .
  - » 20 GE 1.5 MW Turbines . . .

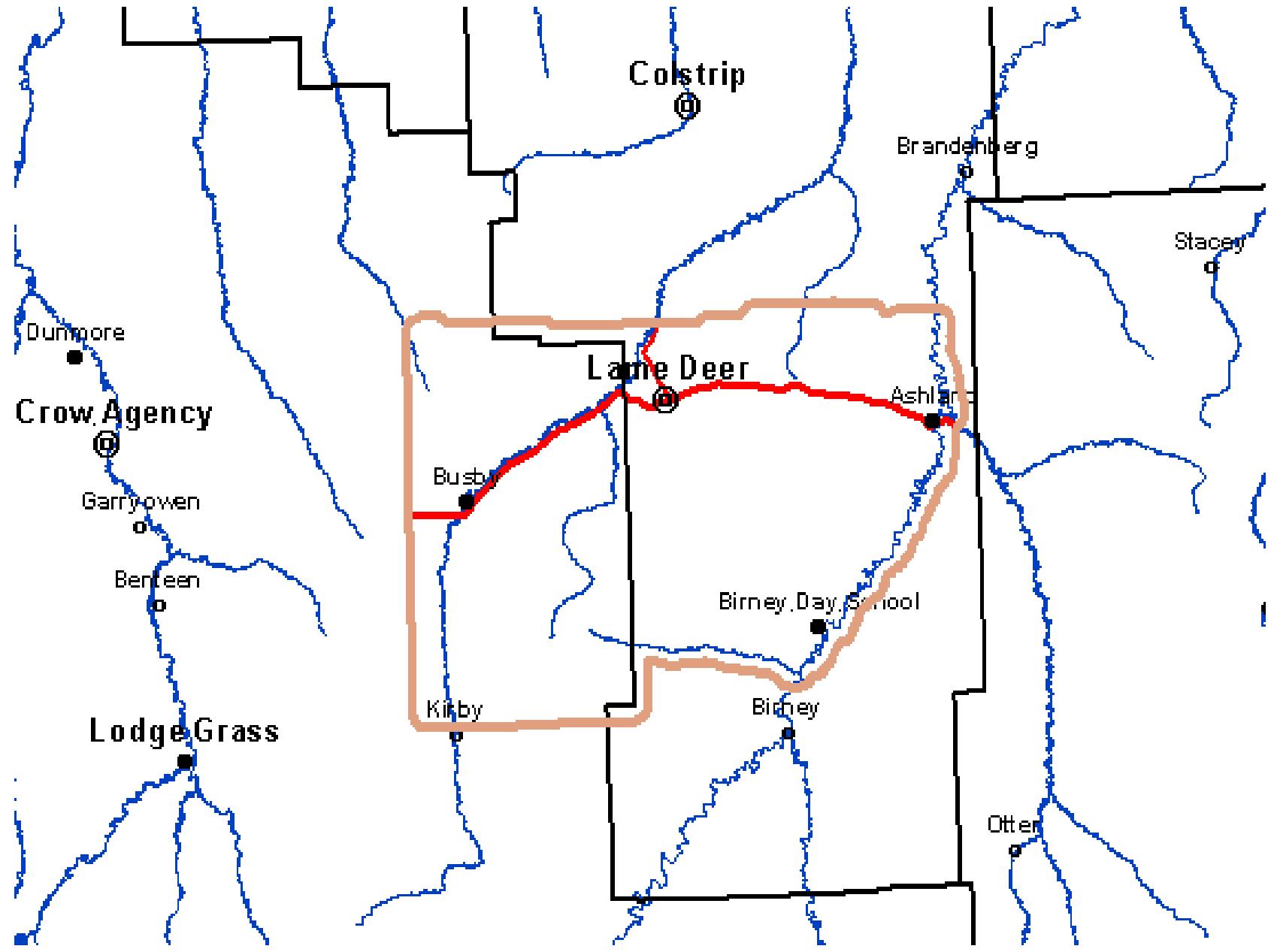


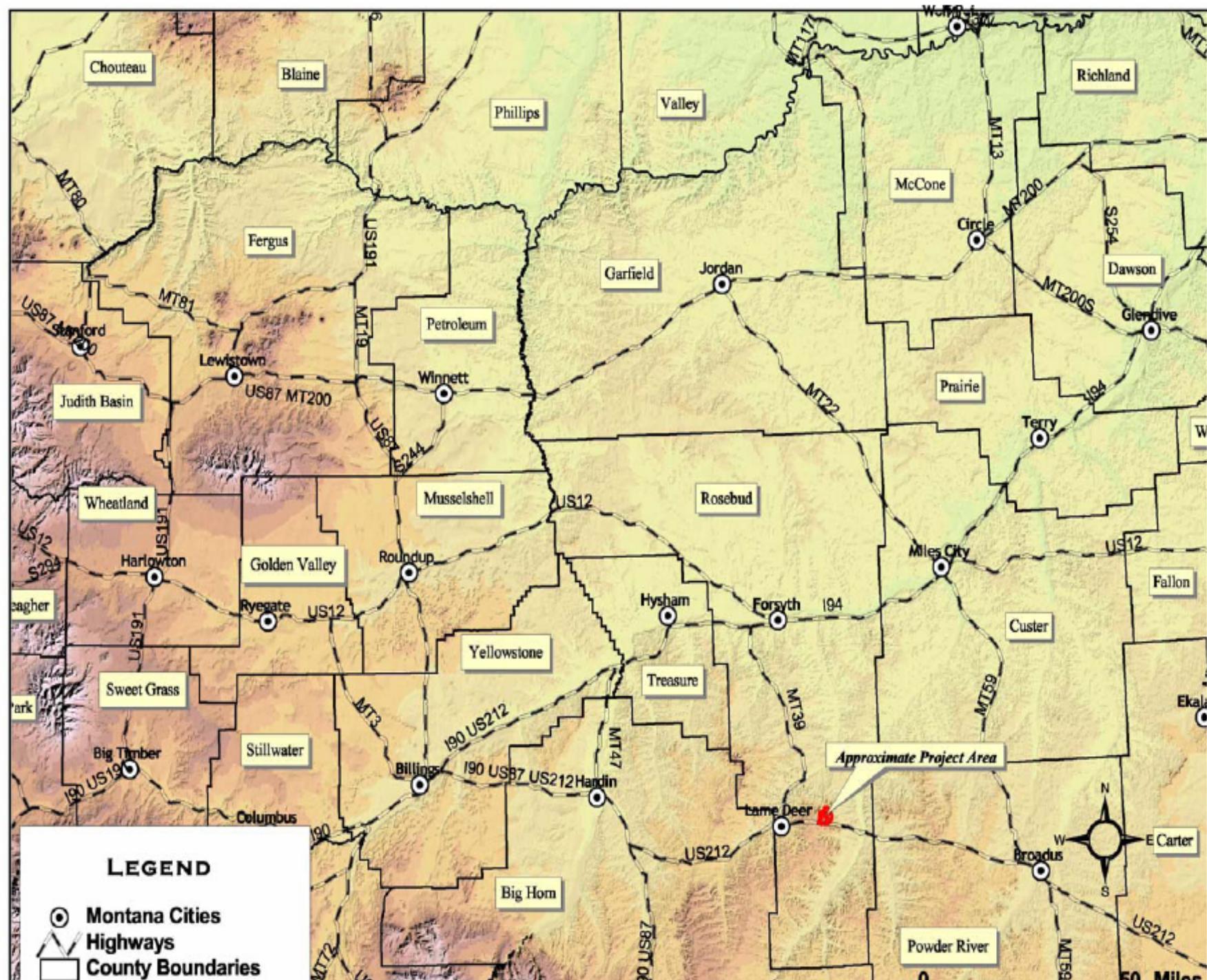
# Physical Description

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

# MONTANA







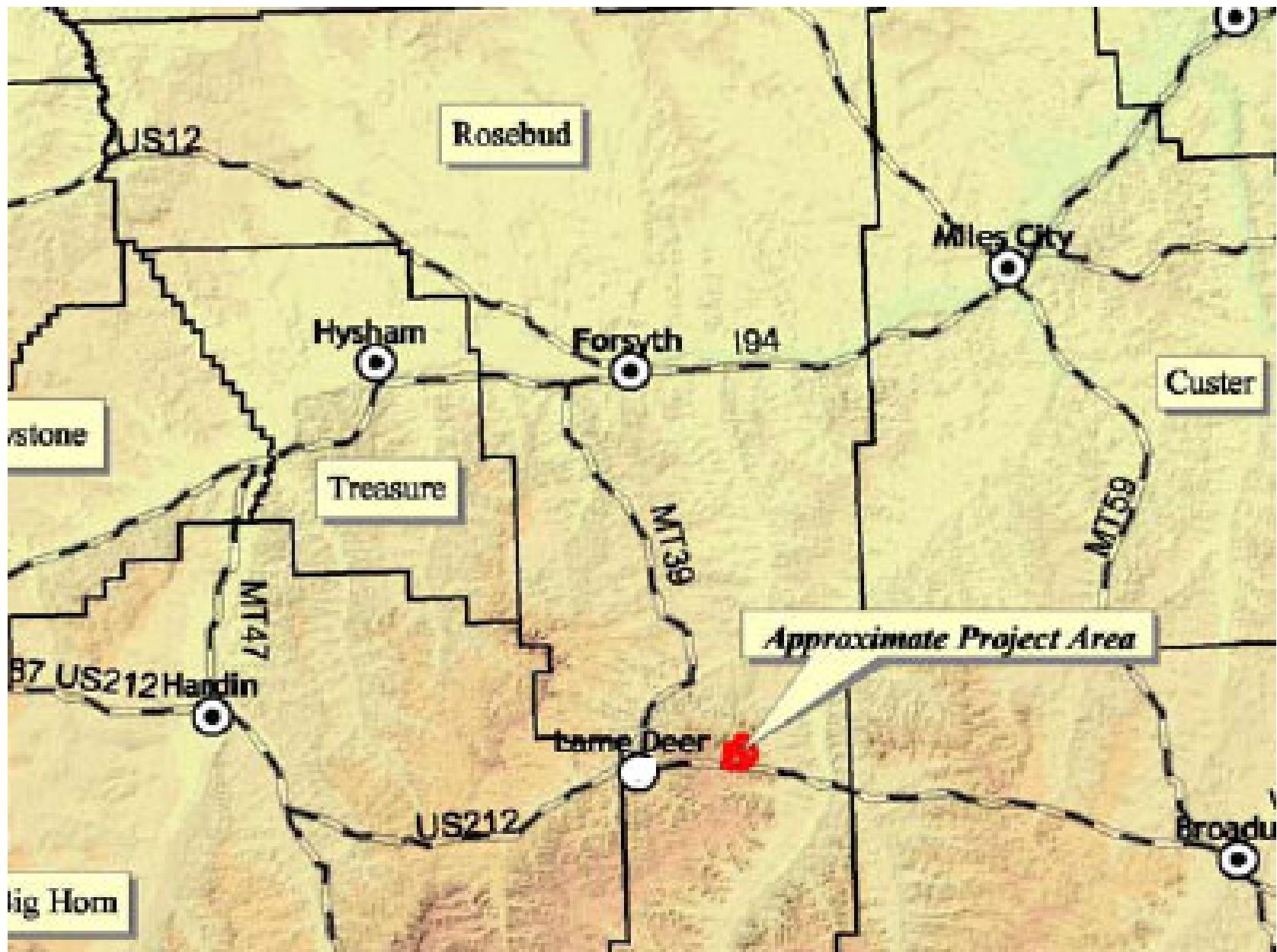
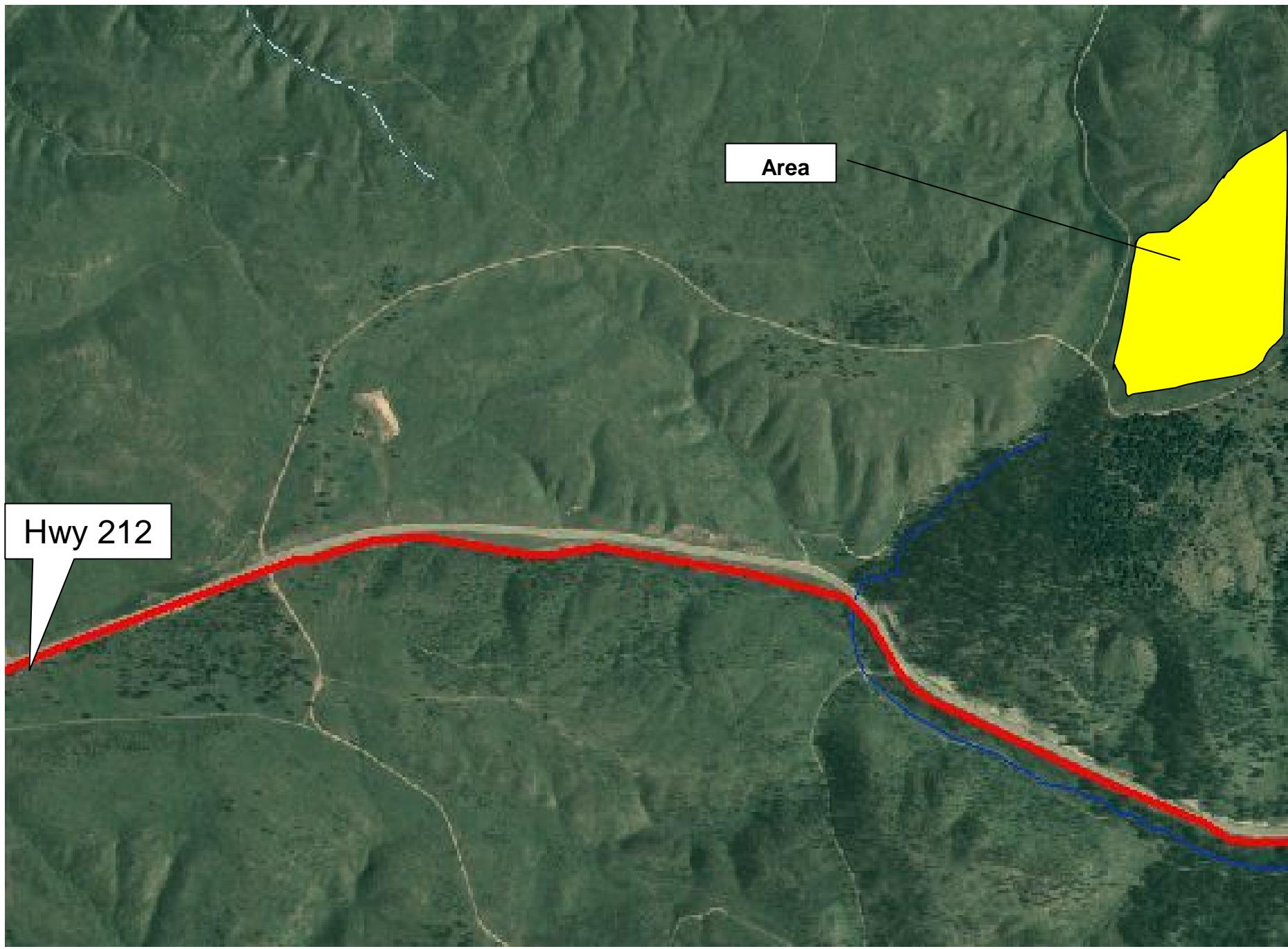
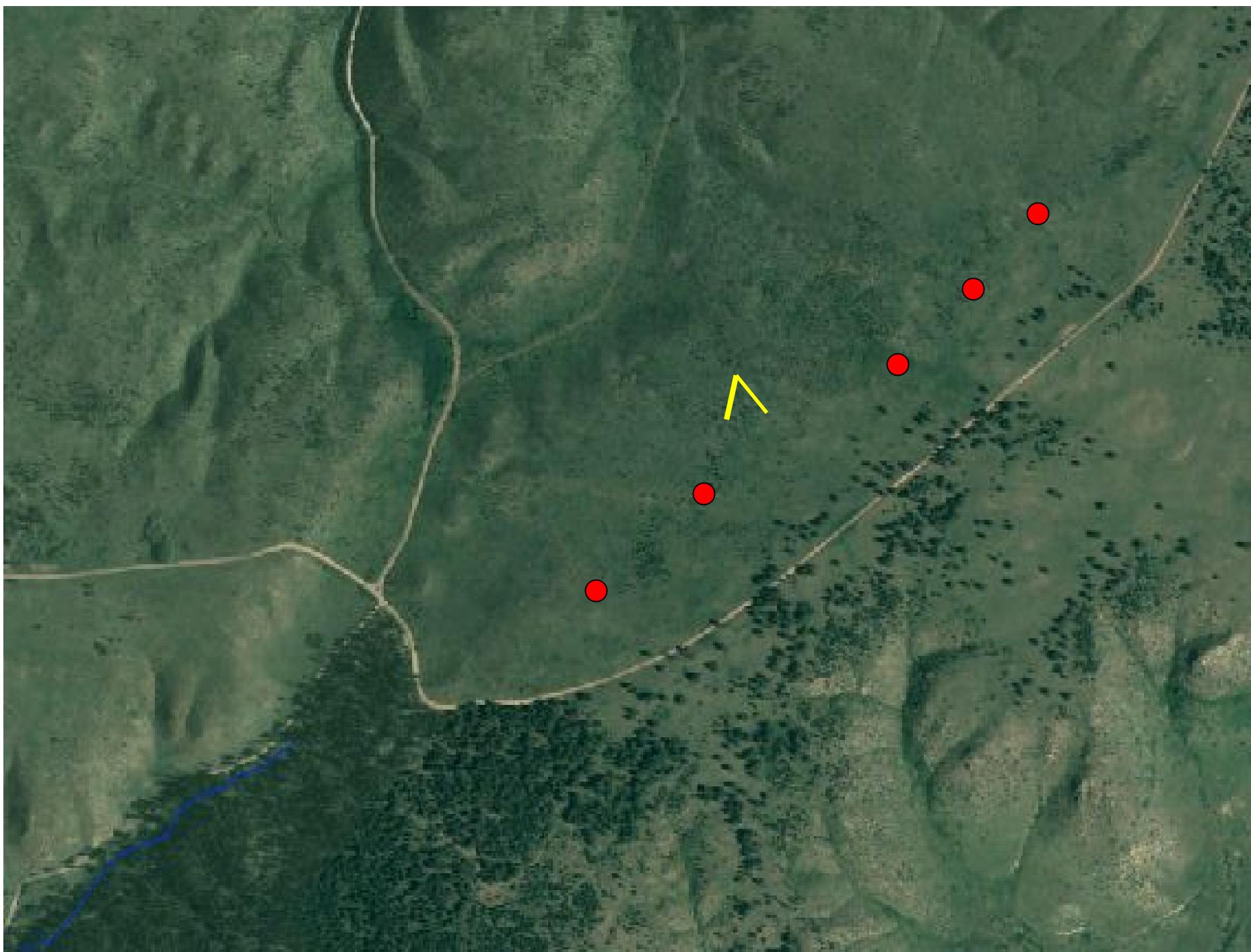


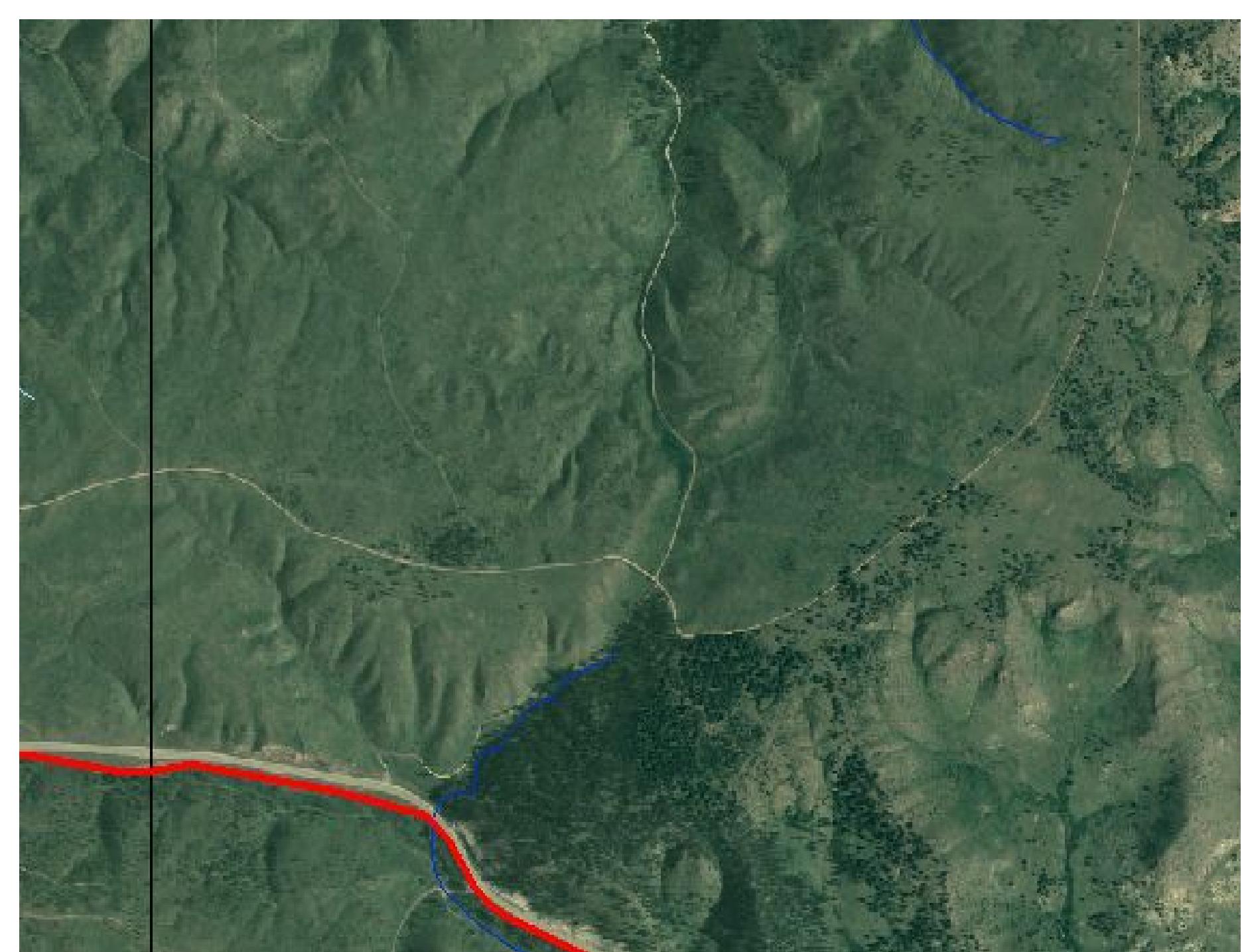


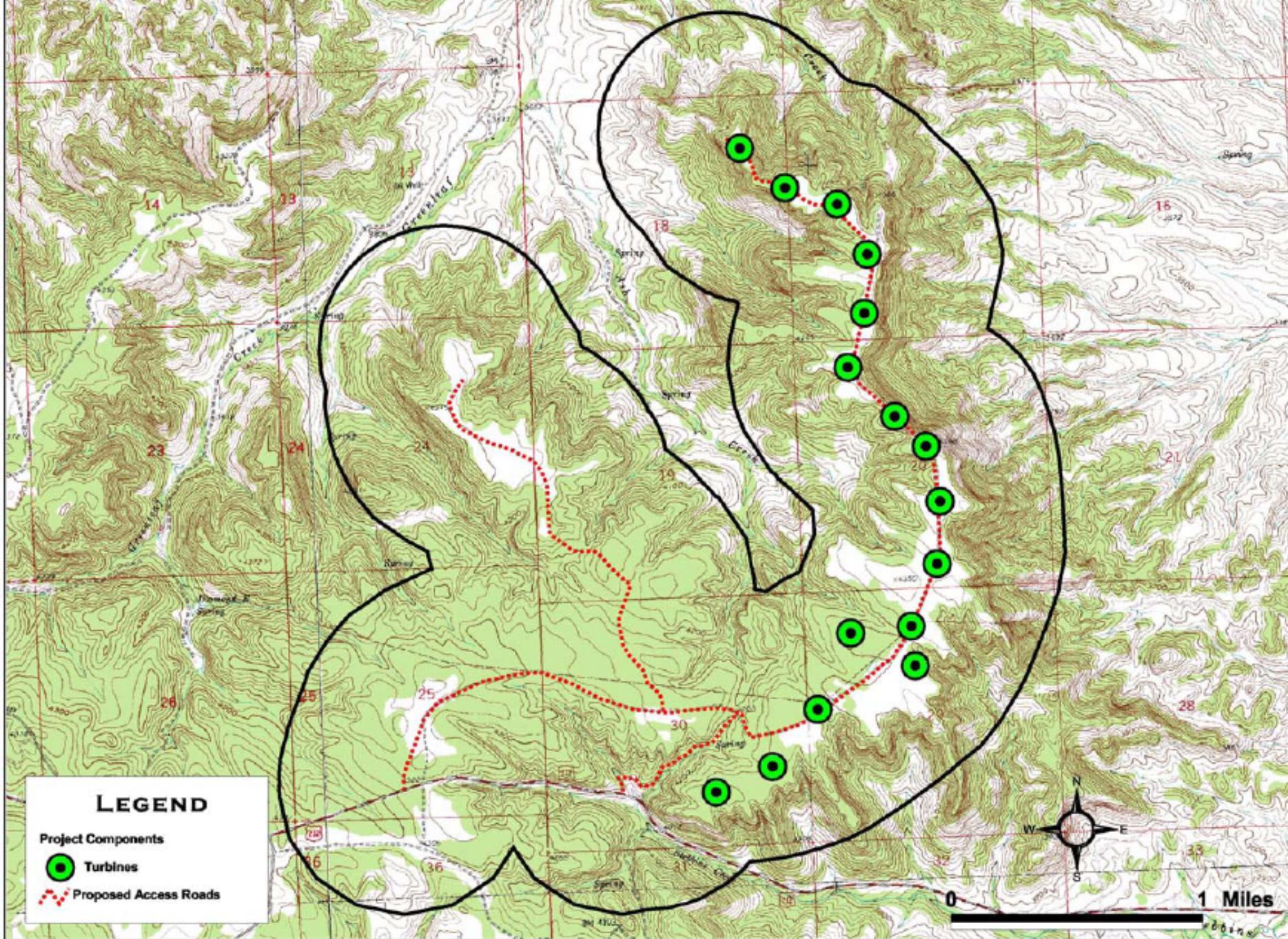
Fig. 2. A dry, open landscape under a blue sky.











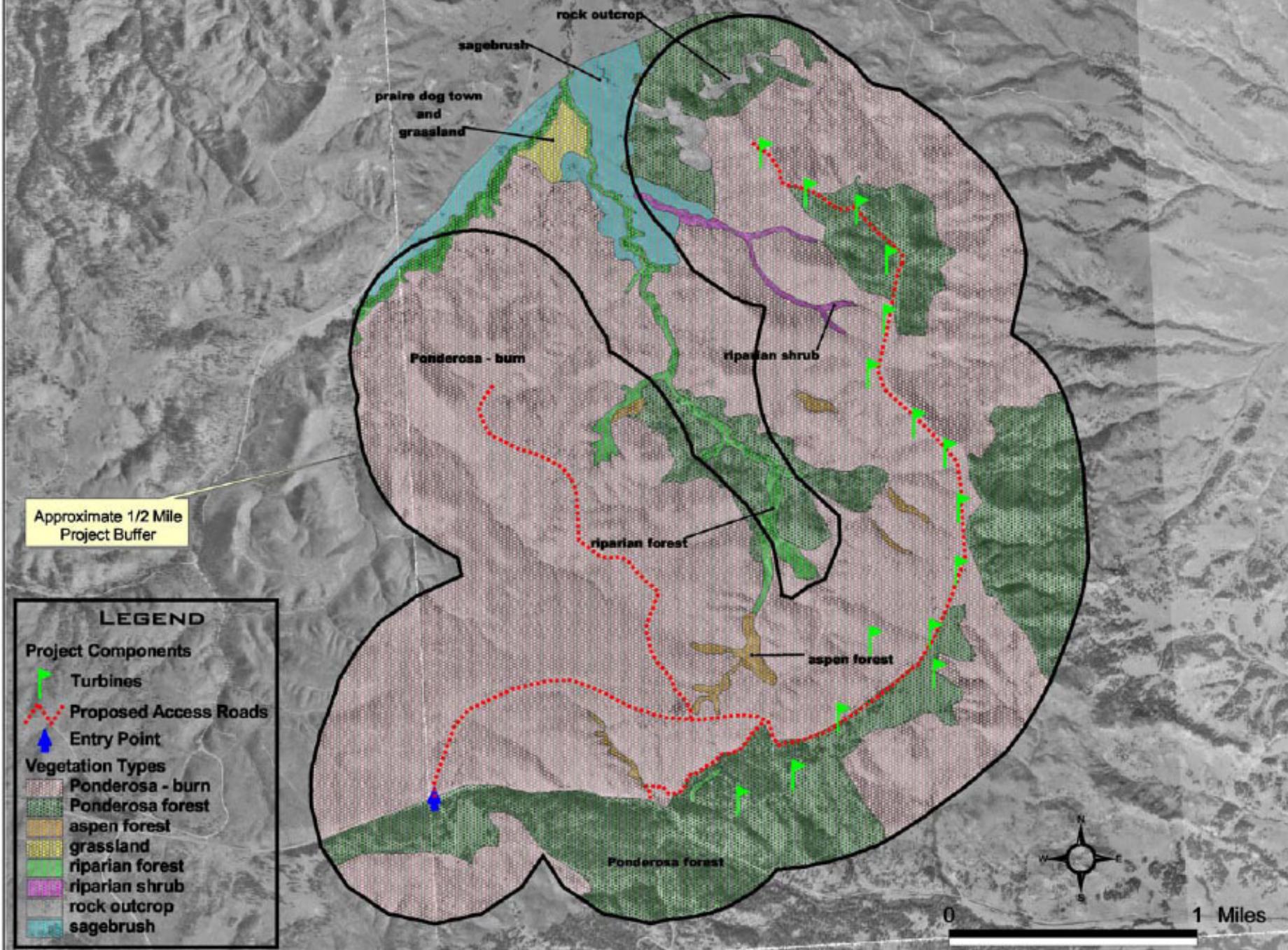


Figure 4. A map of vegetation types in the project area.

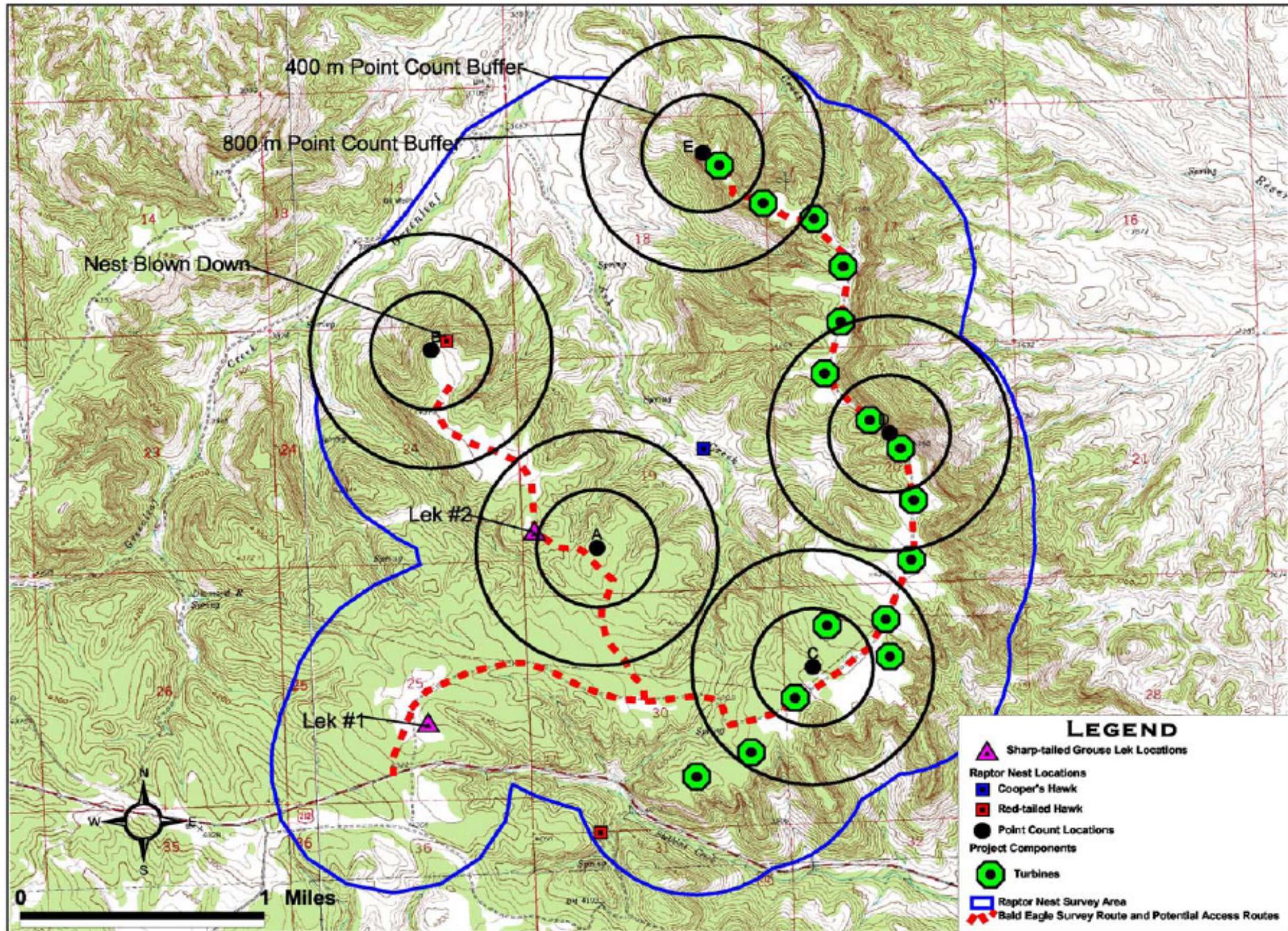


Figure 5. Locations of point counts, eagle survey routes, and raptor nest search areas surrounding the project area.



# 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