



Pre-Con Environmental Inspection Form

Inspection Date :	2/2/2024	Project Name:	Denali State
County, State:	Weld, CO	Survey Type:	Pre-construction
Location (Township, Range, Section):	T5N R67W S13	JSA Completed:	2/2/2024

Surface Conditions:

Current use:	Agriculture	Working Pad Surface (Acres):	9.98ac
Visible from a Main Highway:	Yes	Nearest Public Road (ft):	95th Avenue (2,651ft E)
Nearest Residence (ft):	2,320ft (SE)	# of Dwellings on Property:	0
Nearest Pipeline (ft):	10ft (E)	Nearest Lease Equipment (ft):	5ft (E)
Has surface been used for Agriculture in last 5 years:	Yes	Access Road Size (length X width, acres):	2,635ft x 30ft, 1.87ac
Is there dead or stressed vegetation near the location?:	No	Disturbance Area (Acres):	16.21ac
Stressed vegetation Notes:	NA	Depth of topsoil (in):	NA
Is there excess trash, debris, concrete near location?:	No	Soil sample date; time:	NA
Trash Notes:	NA	Soil sulfate sample results (mg/kg):	NA
Area assessed (e.g., "300' radius from stake"):	1/2 mile buffer	NRCS Soil Map Units within Disturbance Area:	Olney fine sandy loam, 1 to 3 percent slopes - 9.96ac; Otero sandy loam, 5 to 9 percent slopes - 6.15ac; Haverson loam, 1 to 3 percent slopes - 0.10ac
Appearance/Use of Adjacent Areas:	Agriculture, O+G Production, Rangeland	Depth to water (below ground surface):	NA
ROW (length X width, acres):	NA	Comments:	NA
TOTAL AFFECTED AREA (acres):	18.09ac		

Production Facility:

Existing Facility (Name):	NA
New Facility (Name):	Denali State/5N67W13 1-23
New Facility Equipment List:	23 Wells, 23 Separators, 2 Water tanks, 2 VPU, 18PWV, 8 Combustors, 2 Maintenance tanks, 1 Unloading separator, 3 Oil LACT, 3 VRUs, 3 IAC, 1 automation tower, 1 Blow case, 2 Phase Vertical Separators, 3 Separator LP VRUs, 2 Water LACT

Safety issues:

Safety Comments:	NA
Flowline Cleared?:	NA
Flowline Comments:	NA

Water Resources:

<u>Surface Waters of the State</u>			
Within 500ft?	No		
Distance to contaminant migration pathway:	NA	Distance to surface water:	NA
Direction:	NA		
Baseline condition (if within 500ft):	No Surface Waters of the State were identified within 500 ft of the Working Pad Surface.		
Resolution:	CLEARED		

<u>Riparian Corridor</u>			
Within 500ft?	No		
Distance to contaminant migration pathway:	NA	Distance to riparian corridor:	NA
Direction:	NA		
Baseline condition (if within 500ft):	No riparian corridors were identified intersecting the Working Pad Surface. No current constraint.		
Resolution:	CLEARED		

<u>Wetland</u>			
Within 500ft?	No		
Distance to contaminant migration pathway:	NA	Distance to wetland:	NA
Direction:	NA		
Baseline condition (if within 500ft):	No wetlands were identified intersecting or within 500ft of the Working Pad Surface. A National Wetland Inventory (NWI) riverine wetland, intersecting the northeast corner of the Disturbance Area, coincides with a National Hydrography Dataset (NHD) mapped stream and was confirmed not present during the field survey. A second NWI-mapped riverine wetland, located west within 500ft of the Working Pad Surface, also coincides with an NHD-mapped stream and was confirmed not present during the field survey. No current constraint.		
Resolution:	CLEARED		

<u>Waters of the U.S.</u>			
Within 500ft?	No		
Distance to contaminant migration pathway:	NA	Distance to Water of the U.S.:	NA
Direction:	NA		
Baseline condition (if within 500ft):	A National Wetland Inventory (NWI) riverine wetland, in the northeast corner of the Disturbance Area, coincides with a National Hydrography Dataset (NHD) mapped stream and was confirmed not present during the field survey. A second NWI-mapped riverine wetland, located west of the Working Pad Surface, also coincides with an NHD-mapped stream and was confirmed not present during the field survey. No current constraint.		
Resolution:	CLEARED		

High Priority Habitat:

Total HPH Disturbed Acreage	8.89ac	Nearest HPH	0.0 mi (NE)		
High Priority Habitat Name		Within 1 Mile (Y/N)	Distance (ft)	Estimated Acreage Disturbed (N/A if none)	Comments
Raptors					
Bald eagle active nest site		Y	Intersects	8.89ac	1/2 Mile HPH Buffer Intersects
Aquatics					
Native Fish and other native aquatic species conservation waters		Y	1,370ft	N/A	ANSCW, No project impacts

Additional Wildlife Concerns:

Suitable burrowing owl habitat within 1/4 mile of work area or access road?

Yes

An active prairie dog colony is present 965ft southeast of the Working Pad Surface. CPW recommends no permitted or authorized surface disturbing activities within 1/4 mile for large industrial disturbances (drill rig, building a residential development, etc.) of burrowing owl nest during March 15 - October 31. Construction start date is scheduled for 2/15/24 and surveys are recommended to determine if burrowing owls are present.

Resolution: **SURVEYS RECOMMENDED**

Bald eagle winter night roost?

No

Bald eagle active nest?

Yes

There is no bald eagle winter night roost mapped within 1/2 mile of the Working Pad Surface. A bald eagle nest, Nest_C1, is present 1,993ft northeast of the Working Pad Surface. During the field survey, 1 adult bald eagle was observed on the nest. CPW recommends no permitted or authorized human activities within 1/2 mile of active nests from December 1 to July 31. 2DOT is currently monitoring the nest, no current constraint.

Resolution: **CLEARED**

Preble's mouse NDIS mapped area?

No

Possible Preble's mouse habitat area?

No

No Preble's mouse habitat was observed during the field survey. No current constraint.

Resolution: **CLEARED**

Ute ladies'-tresses orchid habitat?

No

No Ute ladies'-tresses orchid habitat was observed during the field survey. No current constraint.

Resolution: **CLEARED**

Raptor nest within 1/2 mile of work area or access road?

Yes

Raptor nest currently occupied?

No

Trees suitable for nesting raptors within 1/3 mile of work area or access road?

Yes

Two previously unmapped nests, RNest_C9 and RNest_C10, were observed within a 1/2 mile of the Disturbance Area during the field survey, both of which were unoccupied. If construction activities are anticipated within 1/2 mile of a nest between February 15 and July 31, raptor nest surveys are recommended.

Resolution: **SURVEYS RECOMMENDED**

MBTA Ground Nesting Species within 50ft of work area or access road?

No

MBTA ground nest identified within 50ft of work area or access road?

No

The Disturbance Area falls within an agricultural field that is annually harvested for sod. Due to on-going agricultural practices, it is unlikely for any ground nesting birds to establish nests within the Disturbance Area. No ground nests were observed during the field survey. No current constraints.

Resolution: **CLEARED**

CPW State Listed species:

No

No CPW State listed species were observed during the field survey. No current constraints.

Resolution: **CLEARED**

Existing Land Cover Types

Land Cover Type **Acreage within 1 mile**

Cultivated Crops	2,042.74
Herbaceous	211.63
Hay/Pasture	45.56
Developed, Open Space	40.76
Developed, Medium Intensity	30.35
Woody Wetlands	26.93
Open Water	25.82
Developed, Low Intensity	12.91
Deciduous Forest	8.01
Emergent Herbaceous Wetlands	4.23
Developed, High Intensity	3.12
Evergreen Forest	2.45
Barren Land	2.33
Mixed Forest	1.56

Description: Based on National Land Coverage Data (NLCD), the overall agricultural area shows predominantly Cultivated Crops within 1 mile of the Disturbance Area. The field survey confirmed that the dominant land use within 1 mile from the Disturbance Area is agricultural fields, with some rangeland and oil and gas operations.

Land Cover Type **Disturbed Acreage**

Cultivated Crops	16.93
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Description: Based on NLCD, the Disturbance Area consists of cultivated crop fields, with a majority falling within a center-pivot irrigated area. The field survey confirmed that the Disturbance Area falls within an irrigated agricultural field, used to grow sod.

Surveyor Name(s):

Madelene Lockner,
Madison Alsbach

Title(s):

Project Coordinator,
Environmental Specialist
Project Manager

Date: 2/2/2024

Reviewed By:

Erika Tokarz

Title:

Signature:

Erika Tokarz

Date Signed:

2/6/2024

(3301-23) Denali State

SECTION 13, TOWNSHIP 5N, RANGE 67W, WELD COUNTY, CO

Map Location: X:\PDC Energy\3301-23 Denali State\Maps\Environmental Maps\PreCon\3301-23 Denali State Pre-Con Environmental Survey Figure 1_240129.mxd



- Disturbance Area
- Working Pad Surface
- Township
- Section
- Access Road

PREPARED BY:



7674 Grandview Ave., Ste. 210
Arvada, CO 80002

0 500 1,000
Feet

SOURCES:
Project Features, 2DOT 2024
and Chevron 2024

PREPARED FOR:

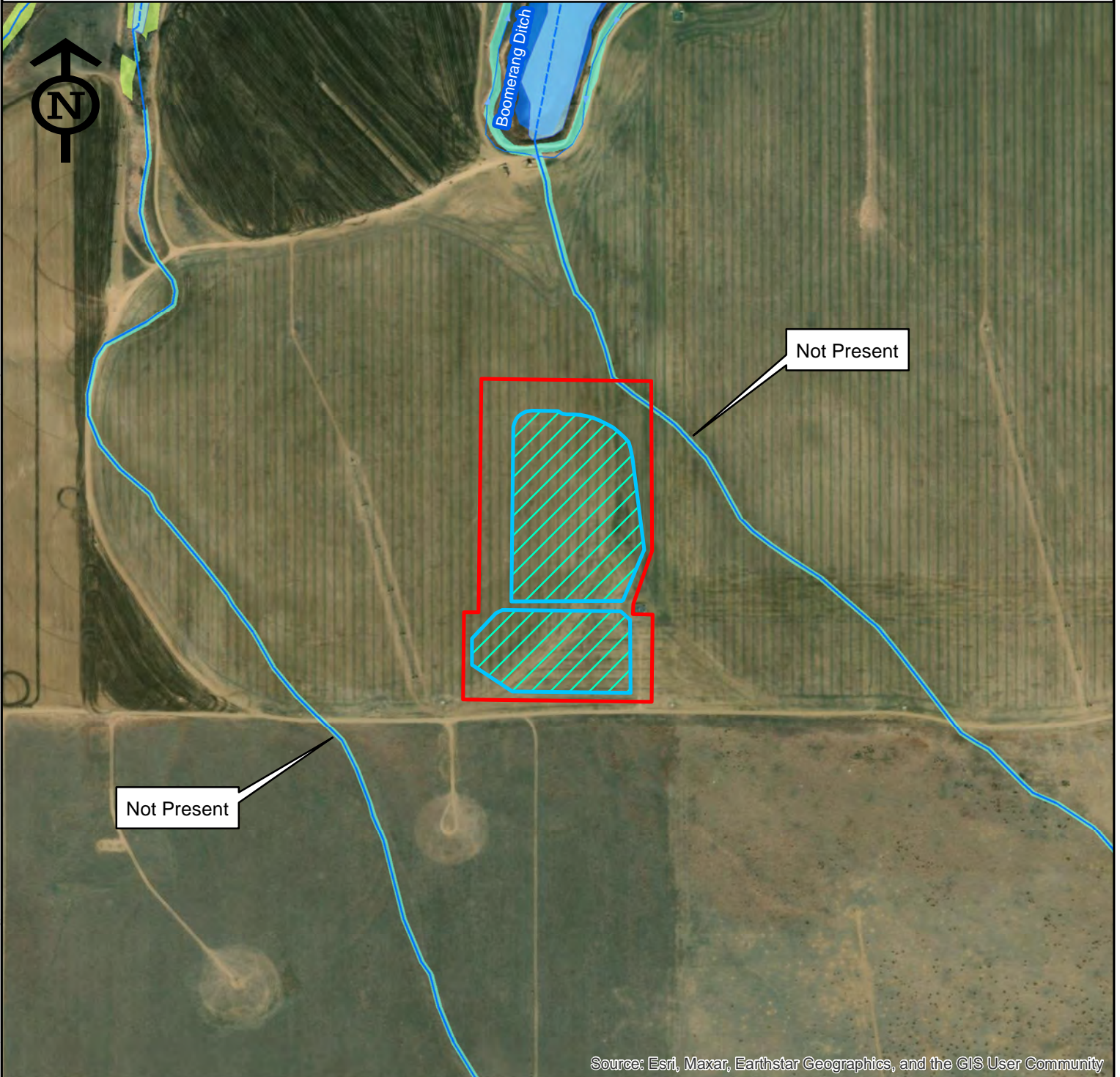


Projection: Nad83 UTM 13N Date: 1/31/2024
Drafted By: JH Reviewed By: JP

Project
Overview

(3301-23) Denali State

SECTION 13, TOWNSHIP 5N, RANGE 67W, WELD COUNTY, CO



- | | |
|----------------------|--|
| Disturbance Area | NHD Mapped Artificial Path |
| Working Pad Surface | NWI Mapped Freshwater Emergent Wetland |
| NHD Mapped Lake/Pond | NWI Mapped Freshwater Pond |
| NHD Mapped Ditch | NWI Mapped Riverine |
| NHD Mapped Stream | |

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0 250 500
Feet

SOURCES:
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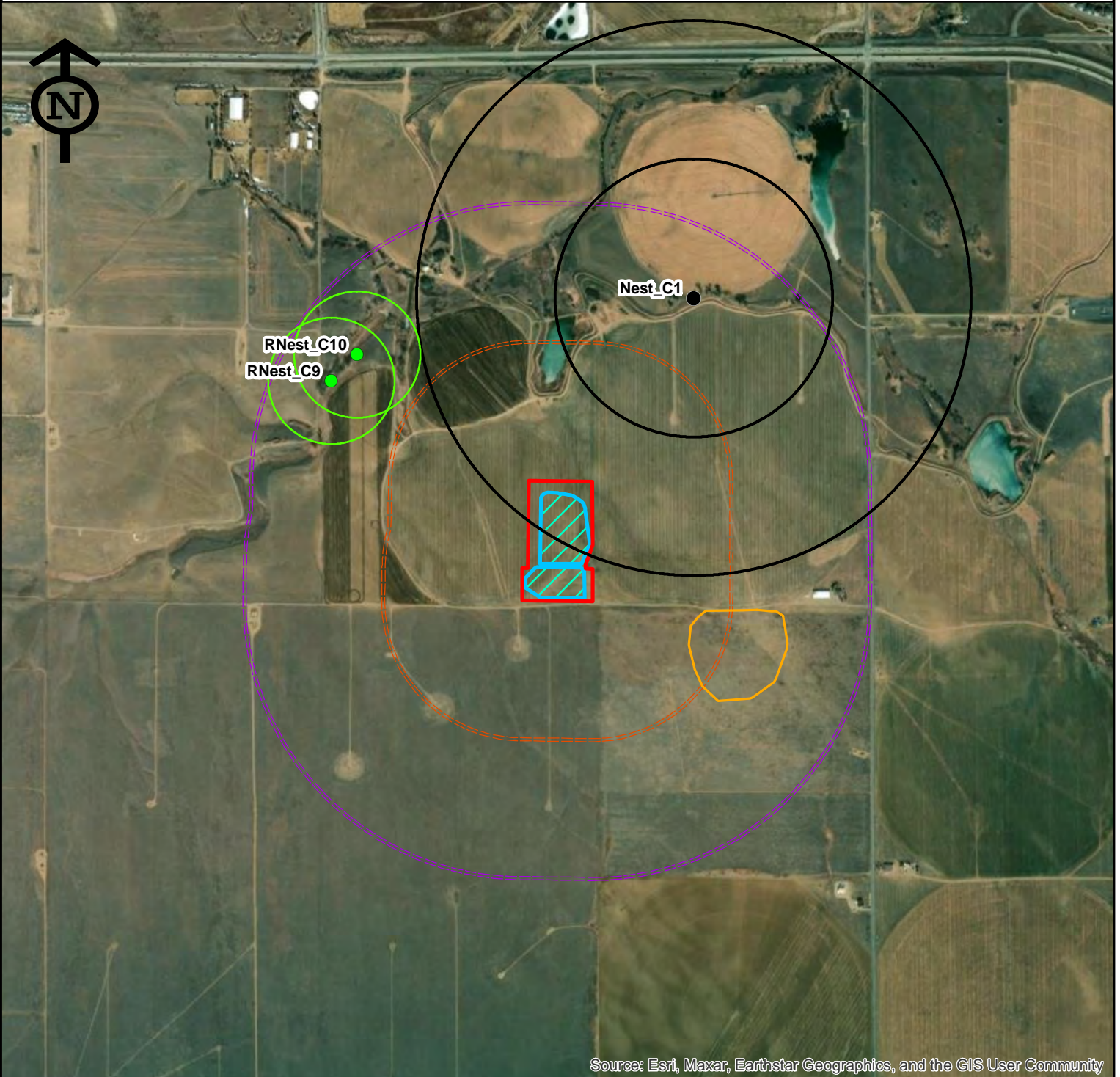
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Hydrology
Overview










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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- | | | |
|---|---|---|
|  Disturbance Area |  UNRA Nest |  Raptor Nest 600 ft Buffer |
|  Working Pad Surface |  BAEA Nest |  Bald Eagle Nest 1/4-1/2 Mile Buffer |
|  1/4 Mile Buffer | |  Potential Burrowing Owl Habitat |
|  1/2 Mile Buffer | | |

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0 0.25
 Miles

SOURCES:
Project Features, 2DOT 2024
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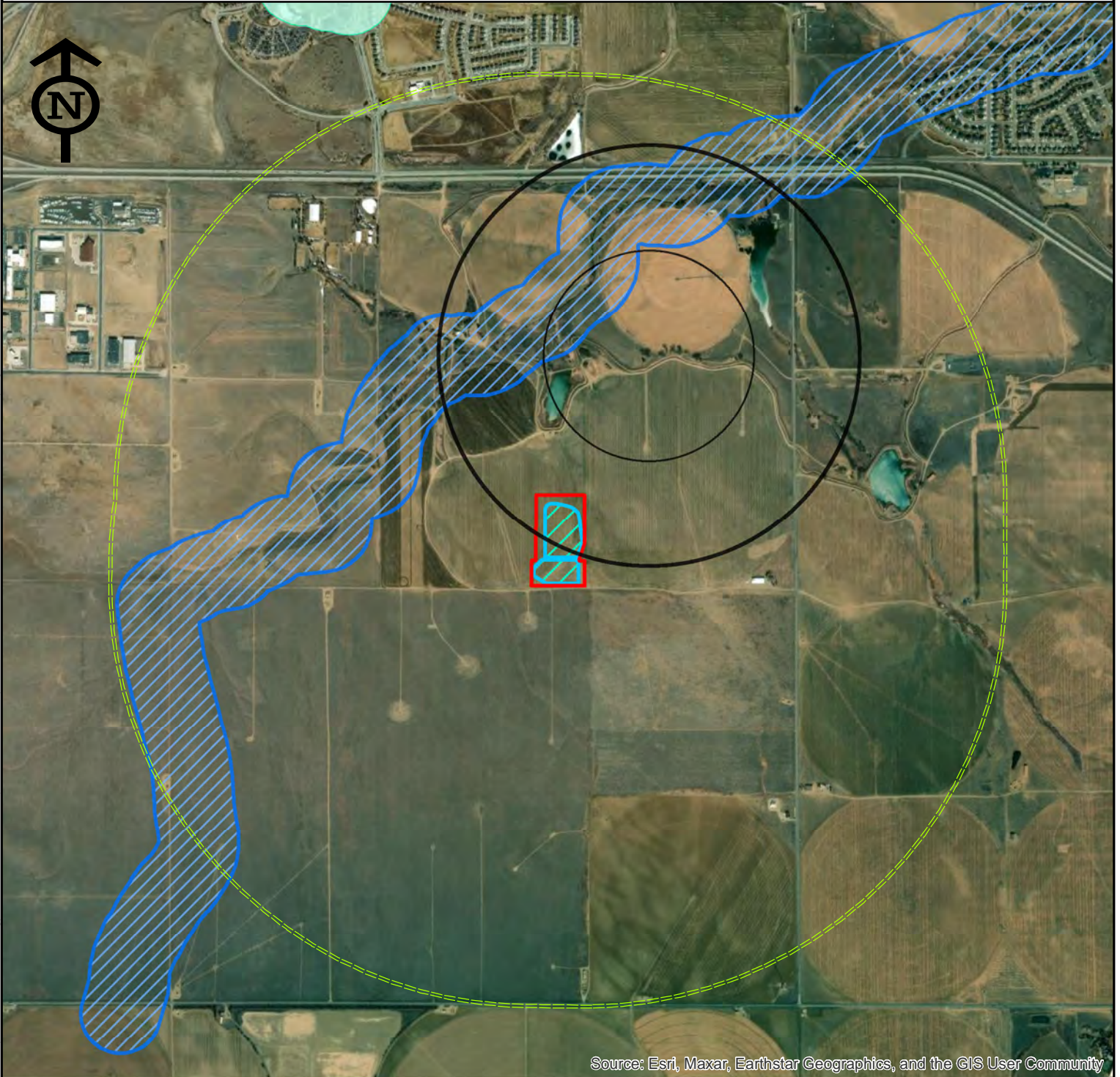
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Wildlife
Overview








(3301-23) Denali State

SECTION 13, TOWNSHIP 5N, RANGE 67W, WELD COUNTY, CO

Map Location: X:\PDC Energy\3301-23 Denali State\Maps\Environmental Maps\PreCon\3301-23 Denali State Pre-Con Environmental Survey Figure 4_240129.mxd




Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- | | |
|---|---|
|  Disturbance Area |  Aquatic Native Species Conservation Waters |
|  Working Pad Surface |  Bald Eagle Active Nest Site - Quarter Mile Buffer |
|  1 Mile Buffer |  Bald Eagle Active Nest Site - Half Mile Buffer |
|  Aquatic Sportfish Management Waters | |

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0 0.33
 Miles

SOURCES:
Project Features, 2DOT 2024
and Chevron 2024

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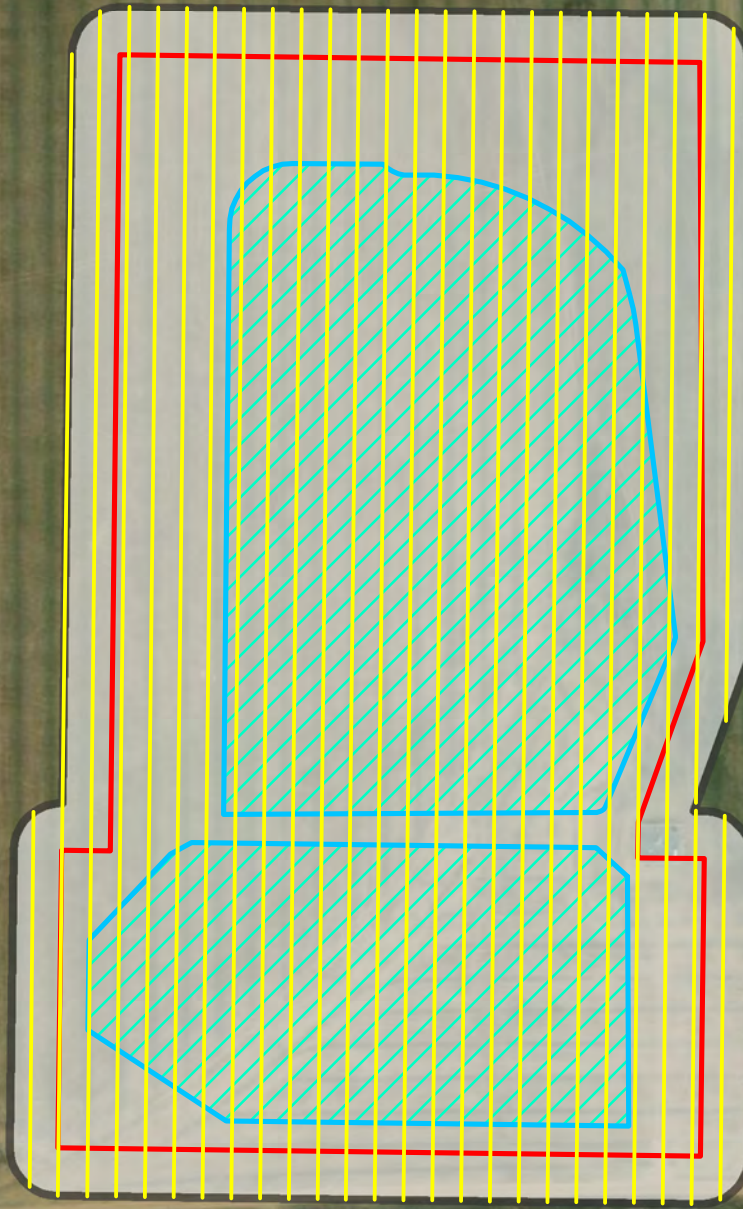


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High Priority Habitat
Overview

(3301-23) Denali State

SECTION 13, TOWNSHIP 5N, RANGE 67W, WELD COUNTY, CO



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- Disturbance Area
- 50ft Buffer
- Working Pad Surface
- 30ft Transects

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0 100 200
Feet

SOURCES:
Project Features, 2DOT 2024
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Ground Nest
Transects

(3301-23) Denali State

SECTION 13, TOWNSHIP 5N, RANGE 67W, WELD COUNTY, CO



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

-  Disturbance Area
-  Working Pad Surface
-  Olney fine sandy loam, 1 to 3 percent slopes
-  Otero sandy loam, 5 to 9 percent slopes
-  Haverson loam, 1 to 3 percent slopes

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0 100 200
Feet

SOURCES:
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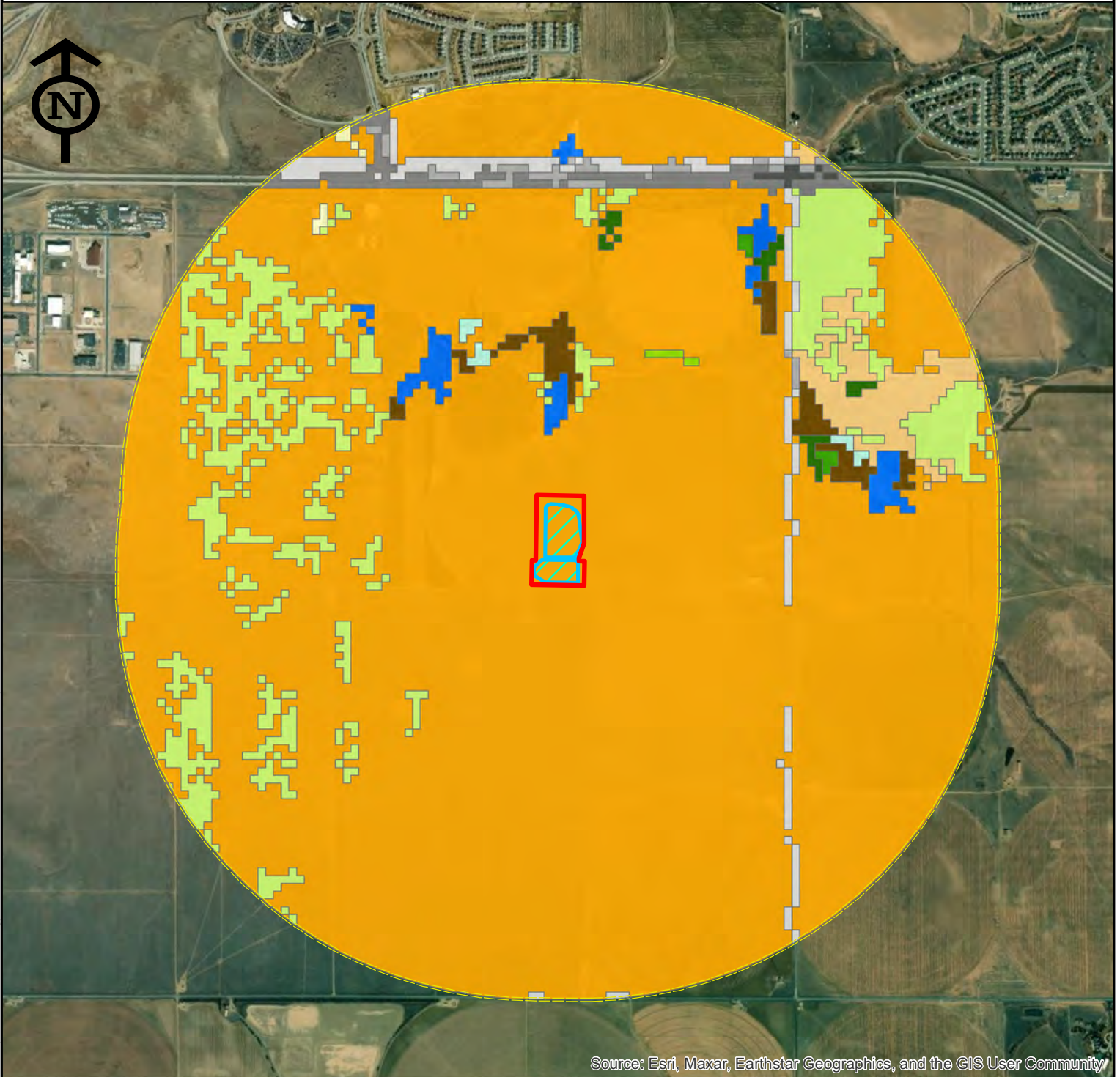
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Soils:
Disturbance Area

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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- | | | | |
|---------------------|-----------------------------|------------------------------|----------------|
| Disturbance Area | Deciduous Forest | Emergent Herbaceous Wetlands | Open Water |
| Working Pad Surface | Developed, Open Space | Evergreen Forest | Woody Wetlands |
| 1 Mile Buffer | Developed, Low Intensity | Hay/Pasture | |
| Barren Land | Developed, Medium Intensity | Herbaceous | |
| Cultivated Crops | Developed, High Intensity | Mixed Forest | |

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0 0.33
Miles

SOURCES:
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PREPARED FOR:



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Land Cover
Overview



Photograph 1. Center of Project Area, facing north.



Photograph 2. Center of Project Area, facing east.



Photograph 3. Center of Project Area, facing south.



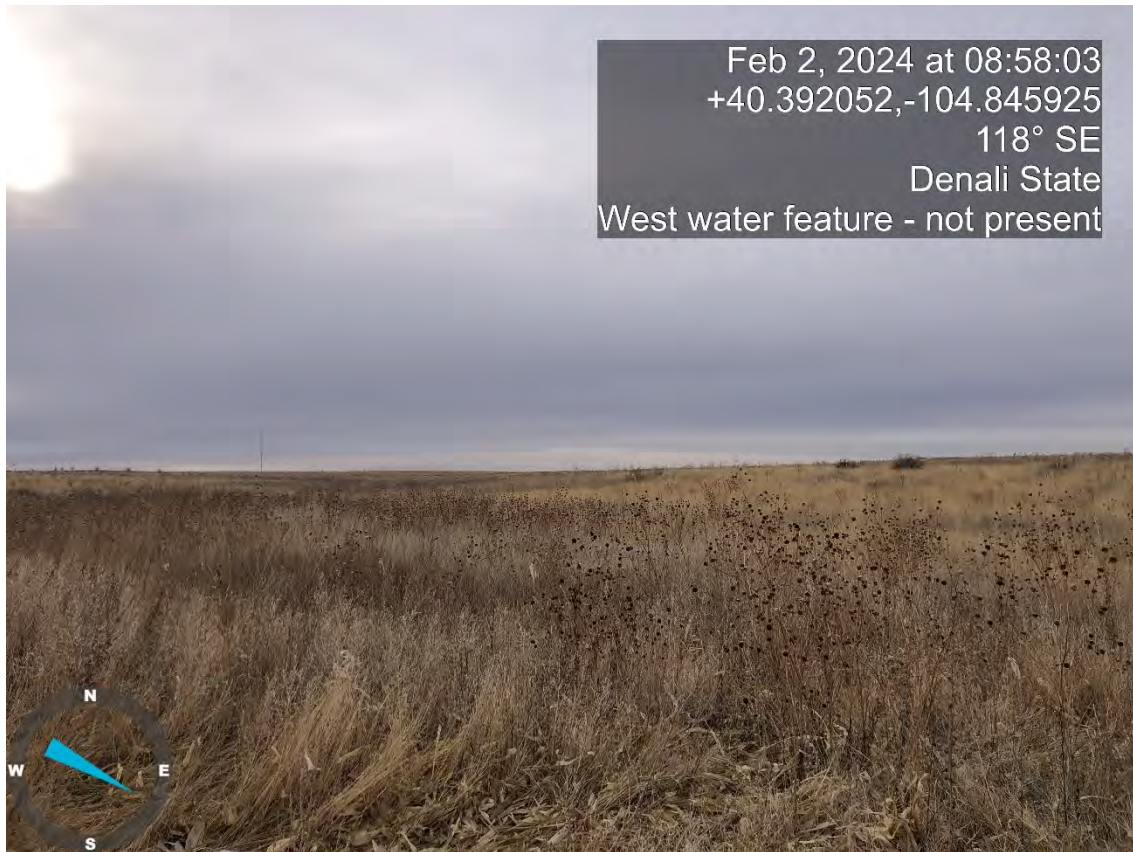
Photograph 4. Center of Project Area, facing west.



Photograph 5. West water feature, facing northwest. Photo was taken from on top of the feature. The mapped stream is not present.



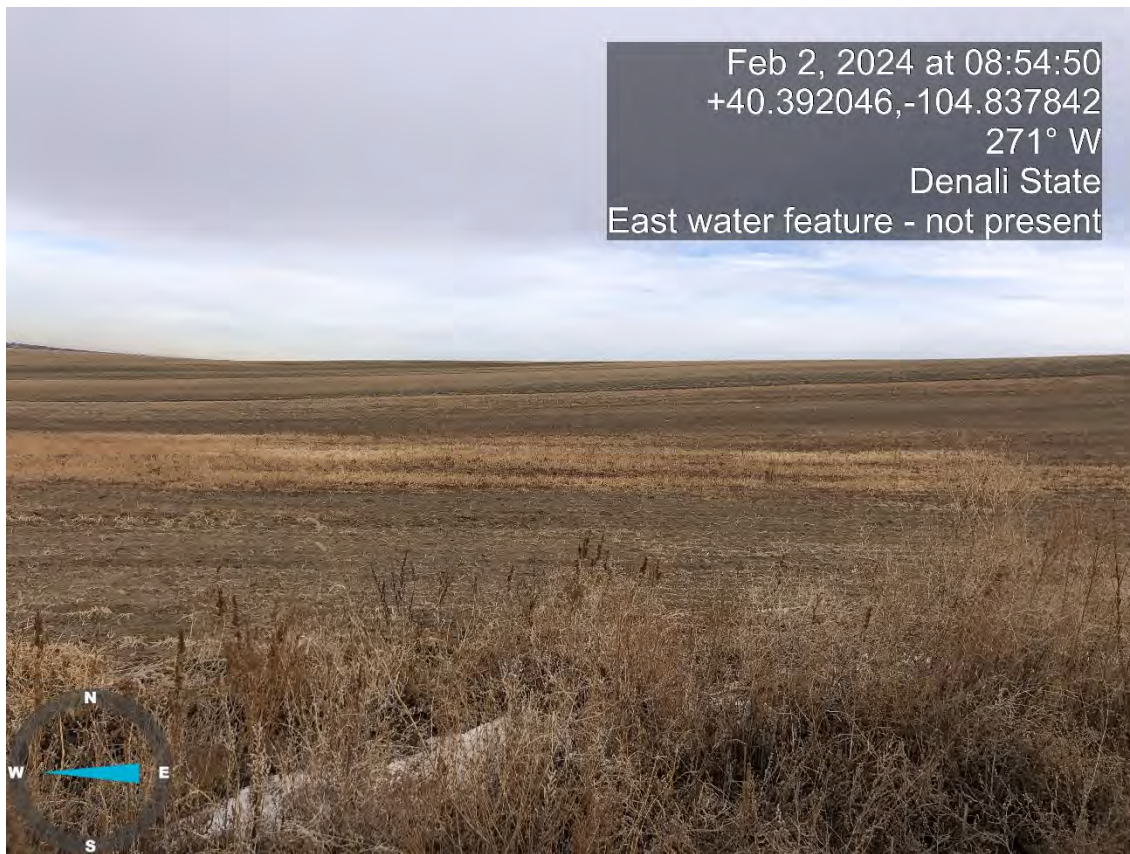
Photograph 6. West water feature, facing southwest. Photo was taken from on top of the feature. The mapped stream is not present.



Photograph 7. West water feature, facing southeast. Photo was taken from on top of the feature. The mapped stream is not present.



Photograph 8. East water feature, facing southeast. Photo was taken from on top of the feature. The mapped stream is not present.



Photograph 9. East water feature, facing west. Photo was taken from on top of the feature. The mapped stream is not present.



Photograph 10. Previously unmapped raptor nest, RNest_C10.



Photograph 11. Previously unmapped raptor nest, RNest_C9.



Photograph 12. Adult Bald Eagle roosting above Nest_C1.