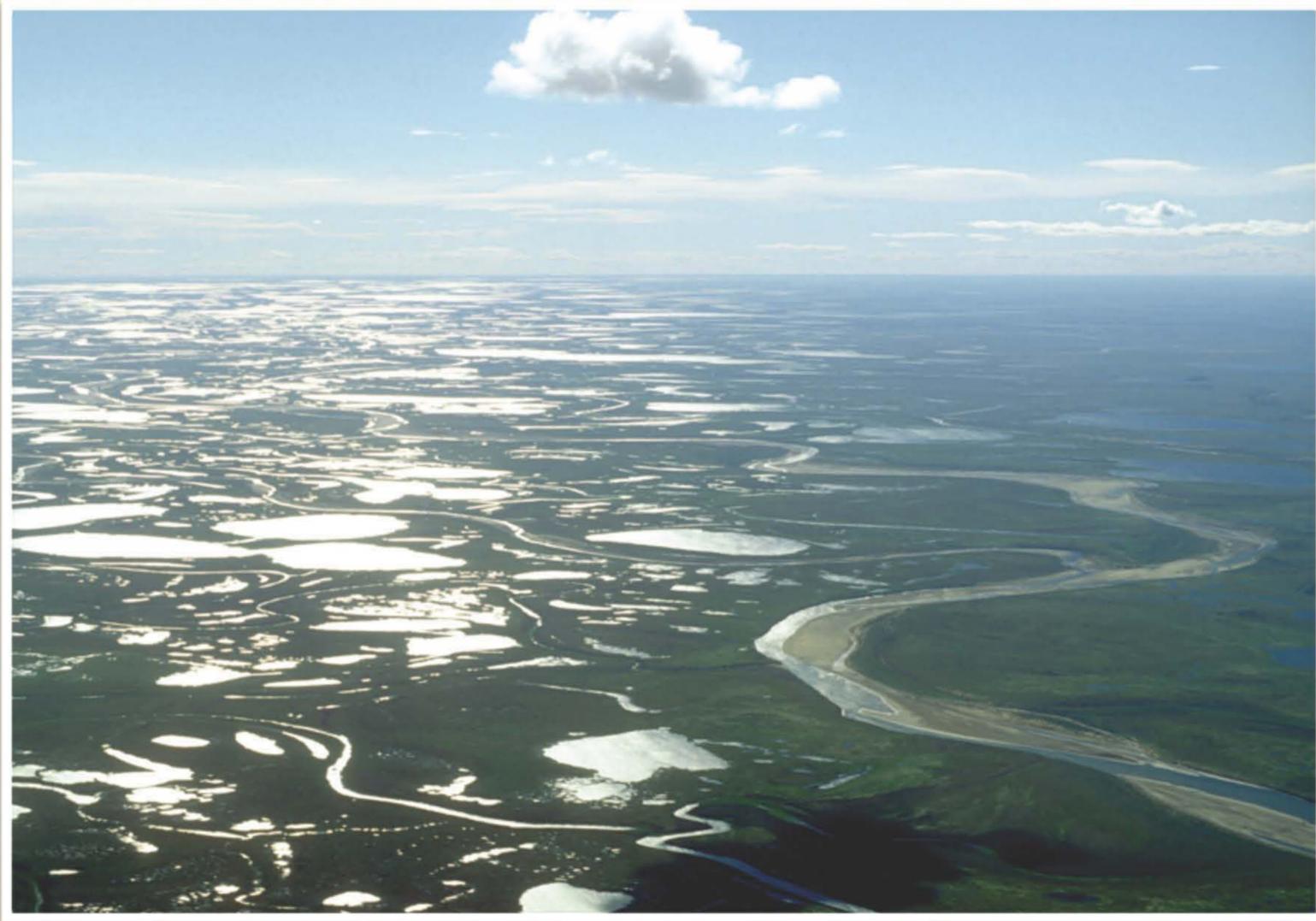




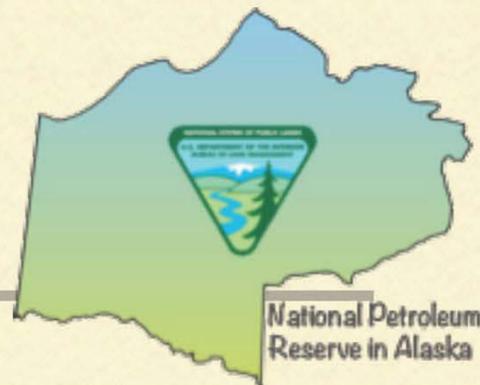
GREATER MOOSES TOOTH ONE DEVELOPMENT PROJECT

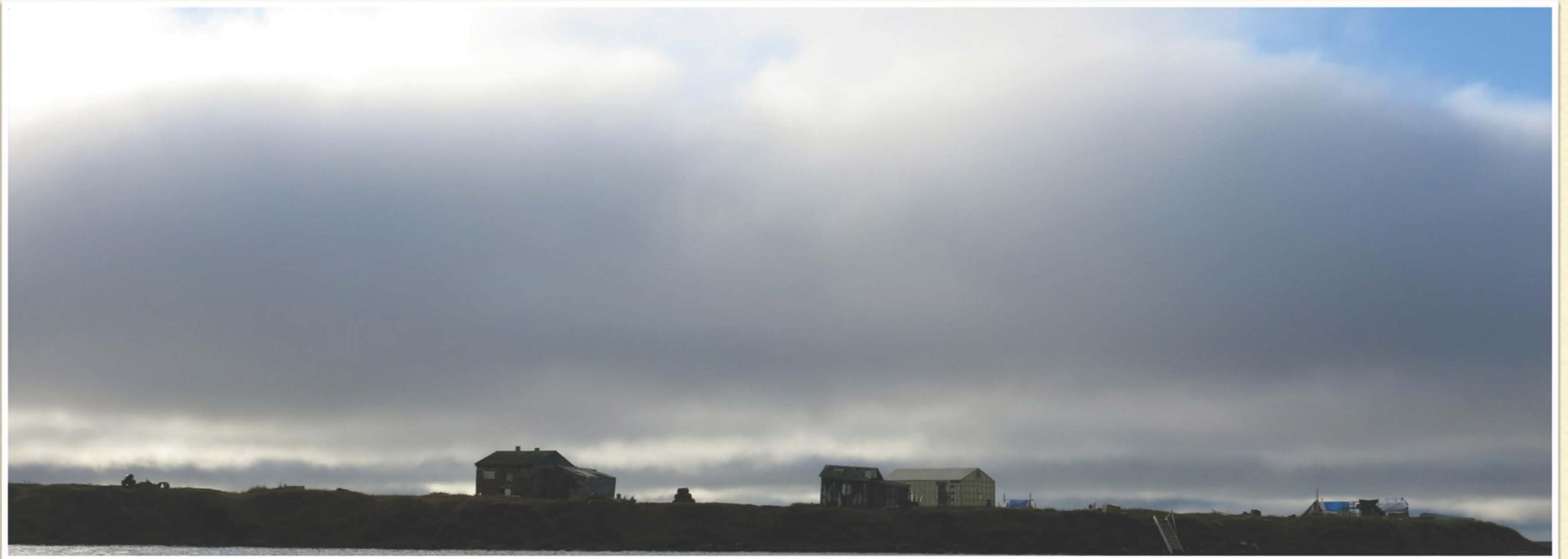
Draft Supplemental Environmental Impact Statement - Public Meeting and ANILCA § 810 Subsistence Hearing

MEETING OVERVIEW



- Turn down cell phone alerts
- Exits and emergency plan
- Introductions
- Presentation on the Draft Supplemental Environmental Impact Statement
- Public comment





FORMAL OPENING OF SUBSISTENCE HEARING

ANILCA § 810 Subsistence Hearing

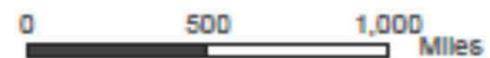
PRESENTATION OUTLINE



- The proposed project
 - The National Environmental Policy Act (NEPA) process
 - Alternatives identified and considered
 - How to read the document
 - Summary of caribou sections
 - How to comment on the plan
 - Discussion of subsistence issues
 - Public comments
-



Greater Mooses Tooth 1



	Anaktuvuk Pass	Atqasuk	Barrow	Nuiqsut	Point Lay	Wainwright
GMT 1	145	145	145	12	280	205

Approximate distance in miles between Greater Mooses Tooth 1 (GMT 1) and villages.

Map Location



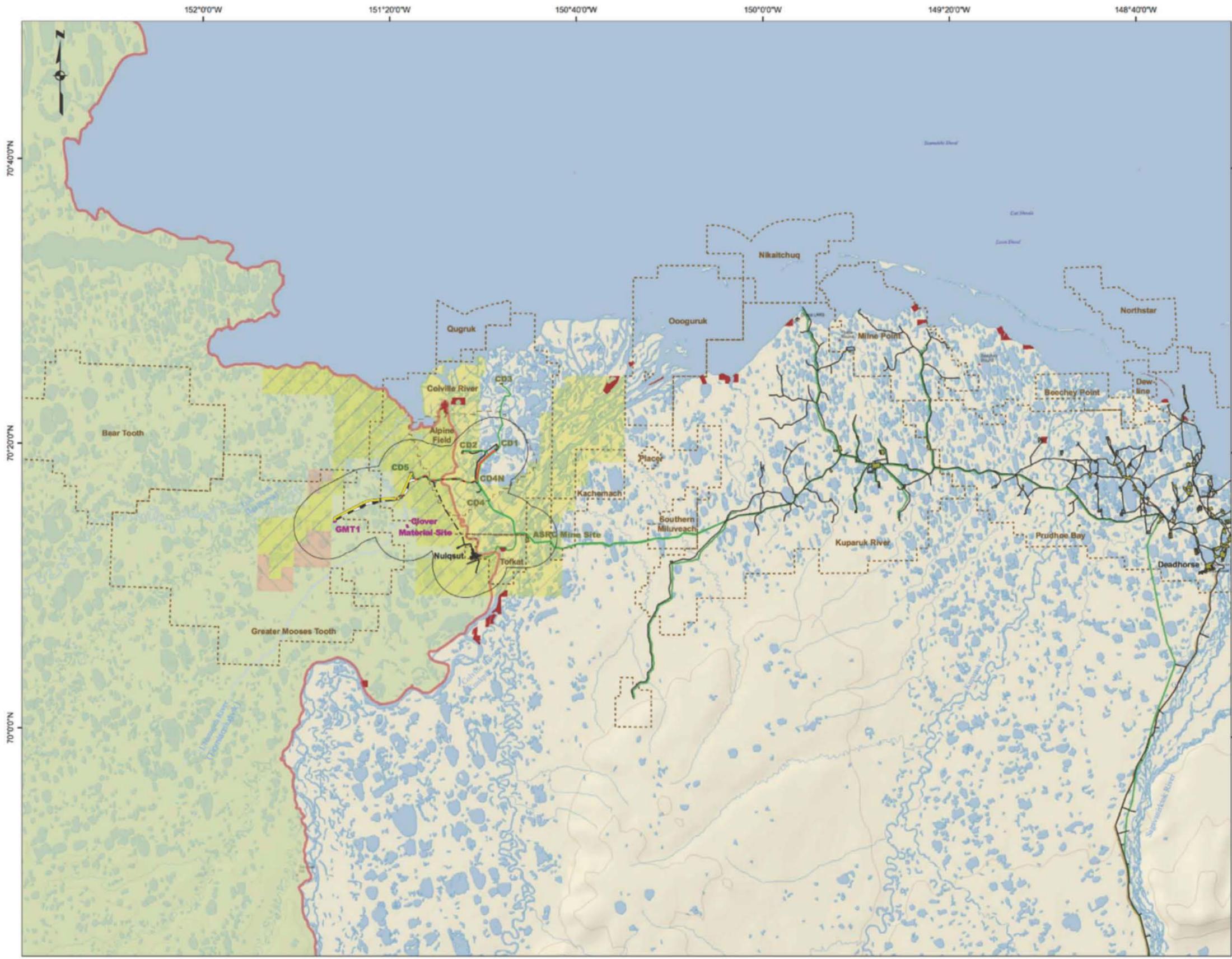


Figure 2.4-1
GMT1 Project
Vicinity

- | | |
|---|---|
| DSEIS Proposed Infrastructure | Proposed or Permitted (not part of GMT1) |
| Pipeline | Pipeline |
| Road | Road |
| 14 inch Water ¹ Injection Line | Facility |
| Bridge | Existing |
| Facility | Pipeline |
| Boundary | Road |
| Project Study Area | Facility |
| Oil & Gas Unit | Surface Land Ownership |
| NPR-A | Kuukpik Lands |
| | Conveyed |
| | Selected |
| | Native Allotments |
| | Private |

Footnote:
1: 14 inch Water Injection line from CD1/APF to CD4N will be constructed on a new pipe rack. From CD4N to CD5 the 14-inch Water Injection line will be placed on the already proposed or permitted pipe rack (not part of GMT1).

DRAFT SEIS
Draft Date 1/23/2014



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NAD 1983 StatePlane Alaska 4 FIPS 5004 Feet

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Environmental Impact Statement 2014

VICINITY MAP



NATIONAL ENVIRONMENTAL POLICY ACT OF 1969 (NEPA) PROCESS

- Applies to most projects with federal involvement (lands, funds, or permits) that effect the environment and people
 - Requires decision makers to analyze the impacts of an action, and reasonable alternatives, on the environment, and to make informed decisions
 - Requires public information and involvement
 - *DISCLOSES:*
 - Any negative and beneficial impacts
 - Any permanent commitments of resources
 - Not perfect, but think about the contrast between this process and what we had earlier
-

NATIONAL ENVIRONMENTAL POLICY ACT OF 1969 (NEPA) PROCESS

- We have two earlier Environmental Impact Statements (EISes) applicable to Conoco's proposal
 - NPRA Integrated Activity Plan / EIS
 - Decision 2013
 - Alpine Satellites Development Plan EIS
 - Decision 2004
 - This *Supplemental* Environmental Impact Statement updates the earlier EISes
 - Evaluate new circumstances and information
 - Provide opportunities for public participation
 - Address changes to Conoco-Phillips proposed development plan for GMT I (referred to as CD6 in the ASDP EIS)
-

INTEGRATED ARCTIC MANAGEMENT

- Administration policy
 - Safeguard peace and stability
 - Make decisions using the best information
 - Pursue innovative arrangements
 - Consult and coordinate with Alaska Natives
 - Our intent is that this process will suffice as the environmental analysis for all the cooperating entities
 - In cooperation with:
 - U.S. Army Corps of Engineers
 - U.S. Environmental Protection Agency
 - U.S. DOI Fish and Wildlife Service
 - U.S. DOI Bureau of Ocean Energy Management
 - State of Alaska
 - Native Village of Nuiqsut
 - North Slope Borough
-

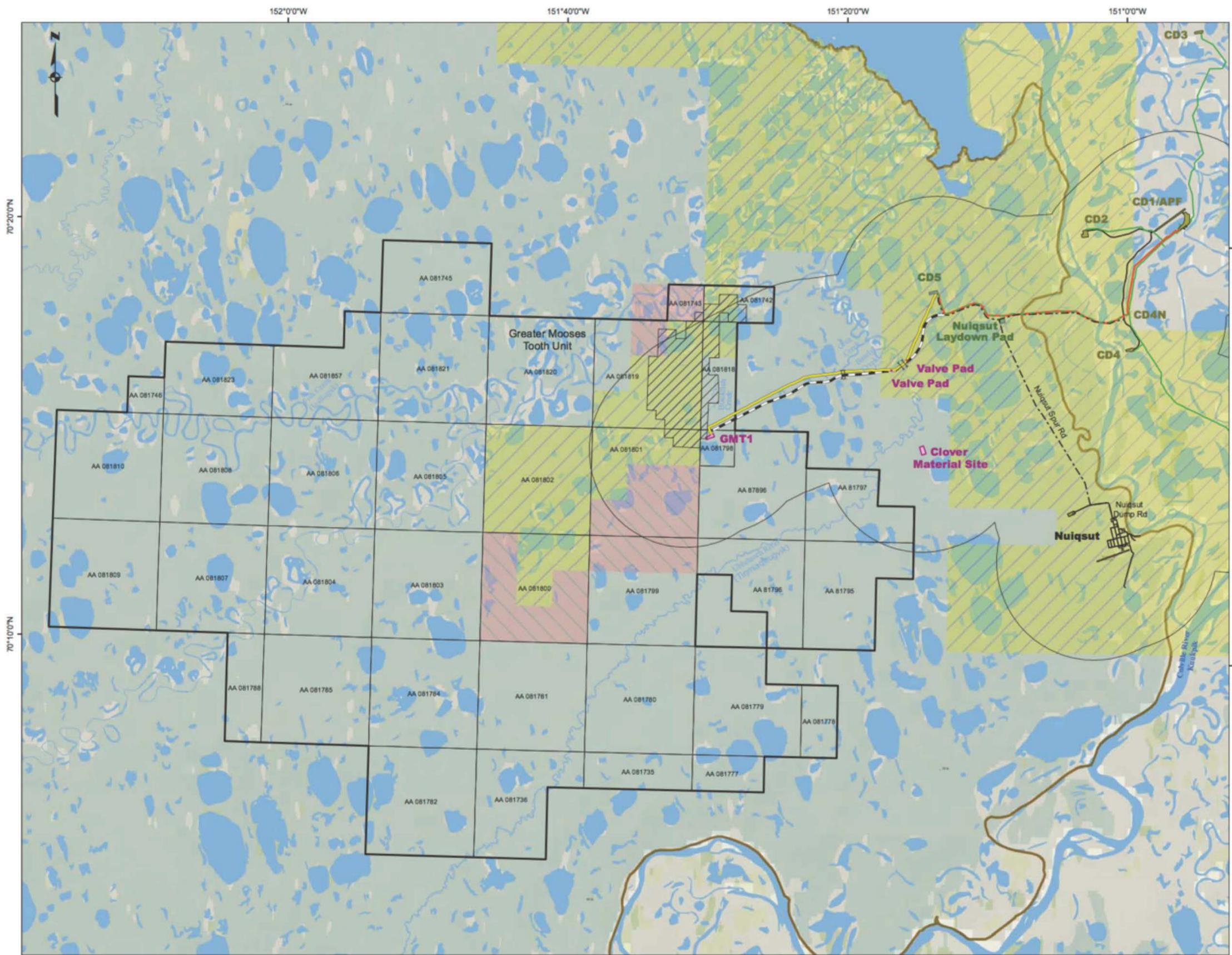


Figure 1.1-1
Greater Mooses Tooth Unit
Land Ownership

- | | |
|---|---|
| Alternative A Infrastructure | Proposed or Permitted (not part of GMT1) |
| Pipeline | Pipeline |
| Road | Road |
| 14 inch Water ¹ Injection Line | Facility |
| Bridge | Existing |
| Facility | Pipeline |
| Boundary | Road |
| lookout PA | Facility |
| Project Study Area | Surface Land Ownership |
| GMTU | Kuukpik Lands |
| Lease Tracts | Conveyed |
| NPR-A | Selected |

Footnote:
1: 14 inch Water Injection line from CD1/APF to CD4N will be constructed on a new pipe rack. From CD4N to CD5 the 14-inch Water Injection line will be placed on the already proposed or permitted pipe rack (not part of GMT1).

DRAFT SEIS
Draft Date 1/23/2014



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NAD 1983 StatePlane Alaska 4 FIPS 5004 Feet



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LAND OWNERSHIP



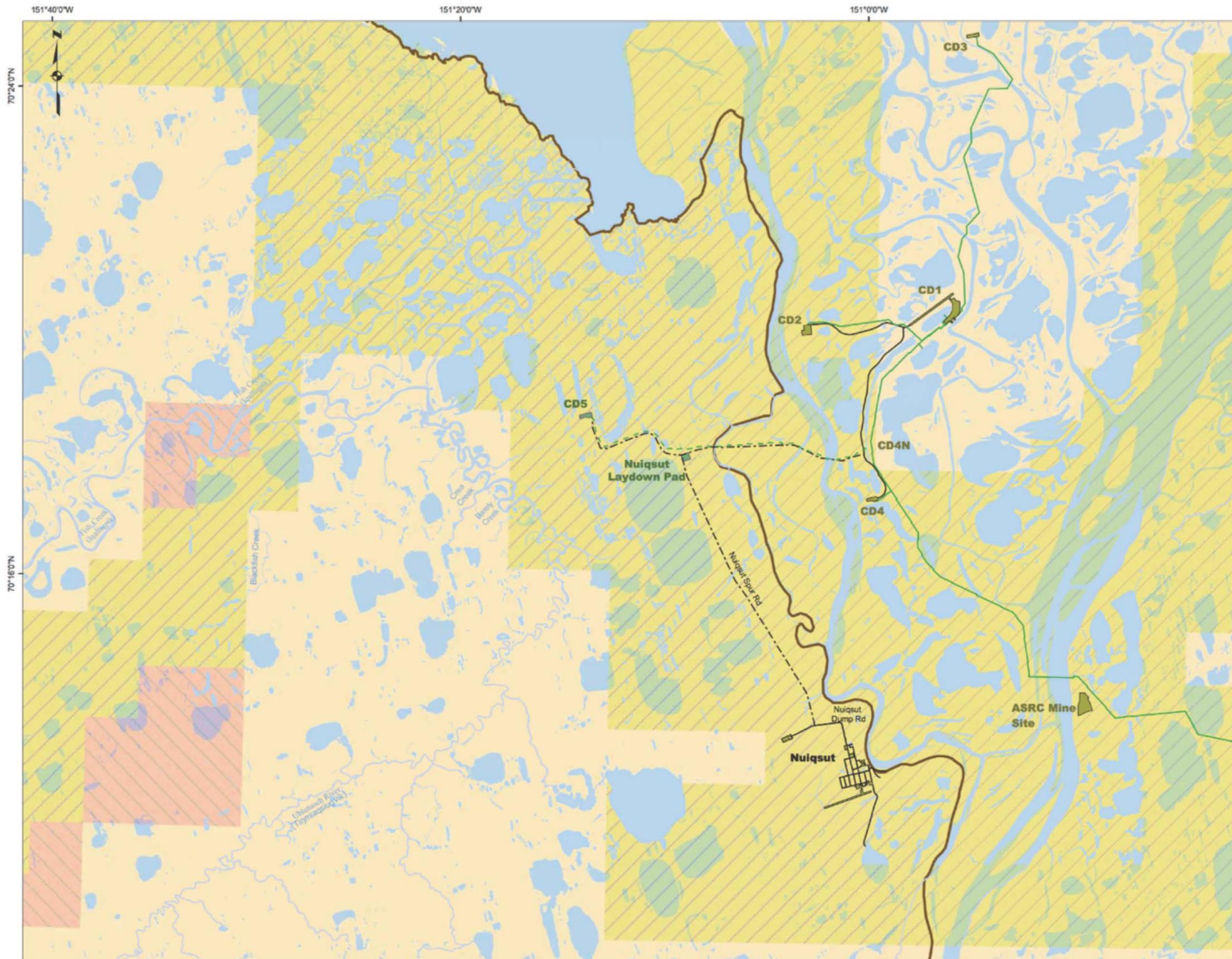


Figure 2.8-1

Alternative E
No Action

- | | |
|--|------------------------|
| Proposed or Permitted (not part of GMT1) | Existing |
| Pipeline | Pipeline |
| Road | Road |
| Facility | Facility |
| Boundary | Surface Land Ownership |
| NPR-A | Kuukpik Lands |
| | Conveyed |
| | Selected |

DRAFT SEIS

Draft Date 1/23/2014



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NAD 1983 StatePlane Alaska 4 FIPS 5004 Feet



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ALTERNATIVE E
NO ACTION



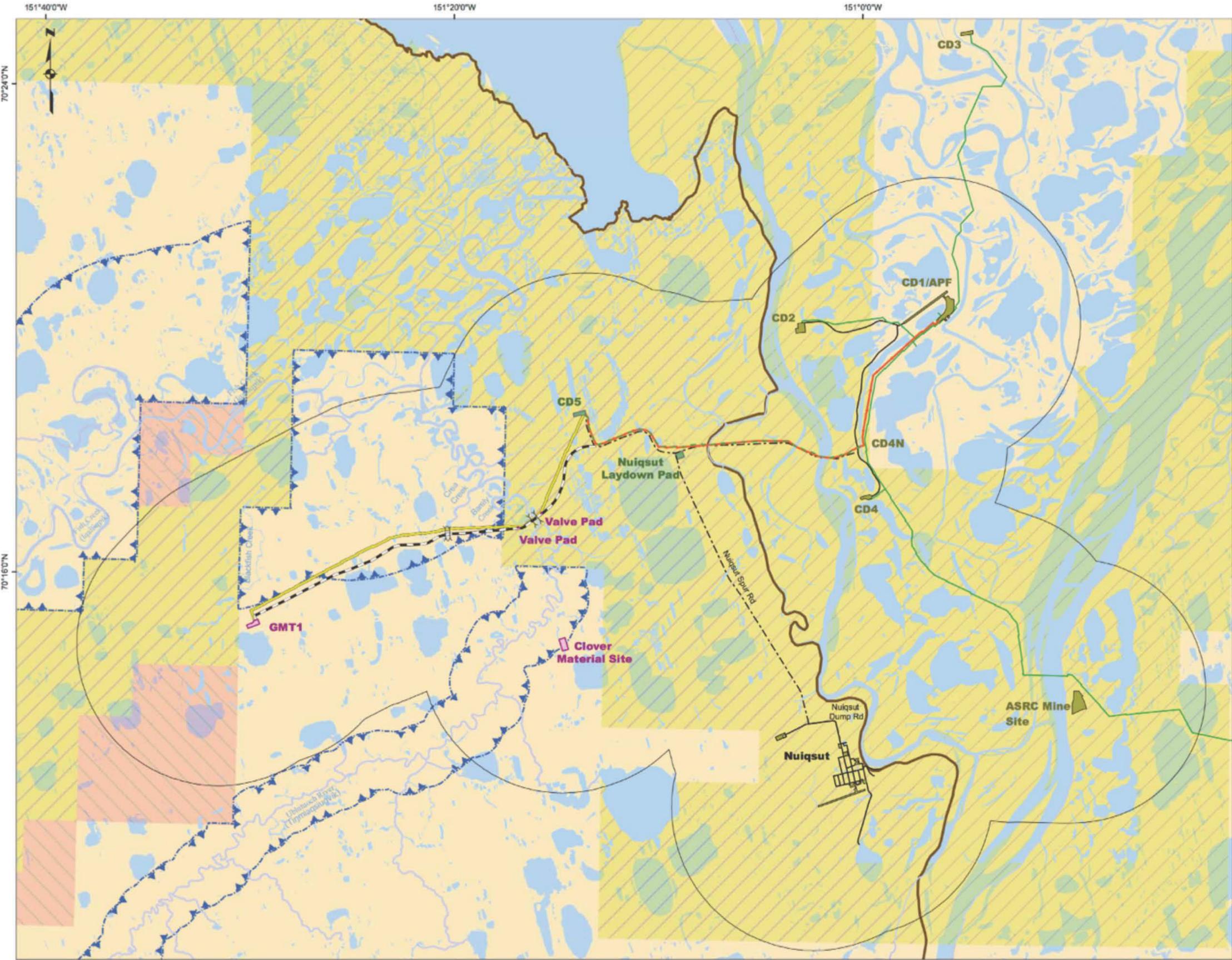


Figure 2.4-2

Alternative A
Proposed Project

- | | |
|--|---|
| Alternative A Infrastructure | Proposed or Permitted (not part of GMT1) |
| Pipeline | Pipeline |
| Road | Road |
| 14 inch Water ¹ Injection Line | Facility |
| Bridge | Existing |
| Facility | Pipeline |
| | Road |
| | Facility |
| Boundary | Surface Land Ownership |
| Project Study | Kuukpiik Lands |
| NPR-A | Conveyed |
| Fish Creek 3 mi
Ublutuch River 0.5 mi | Selected |
| Setback Area | |

Footnote:
1: 14 inch Water Injection line from CD1/APF to CD4N will be constructed on a new pipe rack. From CD4N to CD5 the 14-inch Water Injection line will be placed on the already proposed or permitted pipe rack (not part of GMT1).

**PRELIMINARY
DRAFT SEIS**
Draft Date: 2/7/2014



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NAD 1983 StatePlane Alaska 4 FIPS 5004 Feet

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Environmental Impact Statement 2014

PROPOSED ACTION



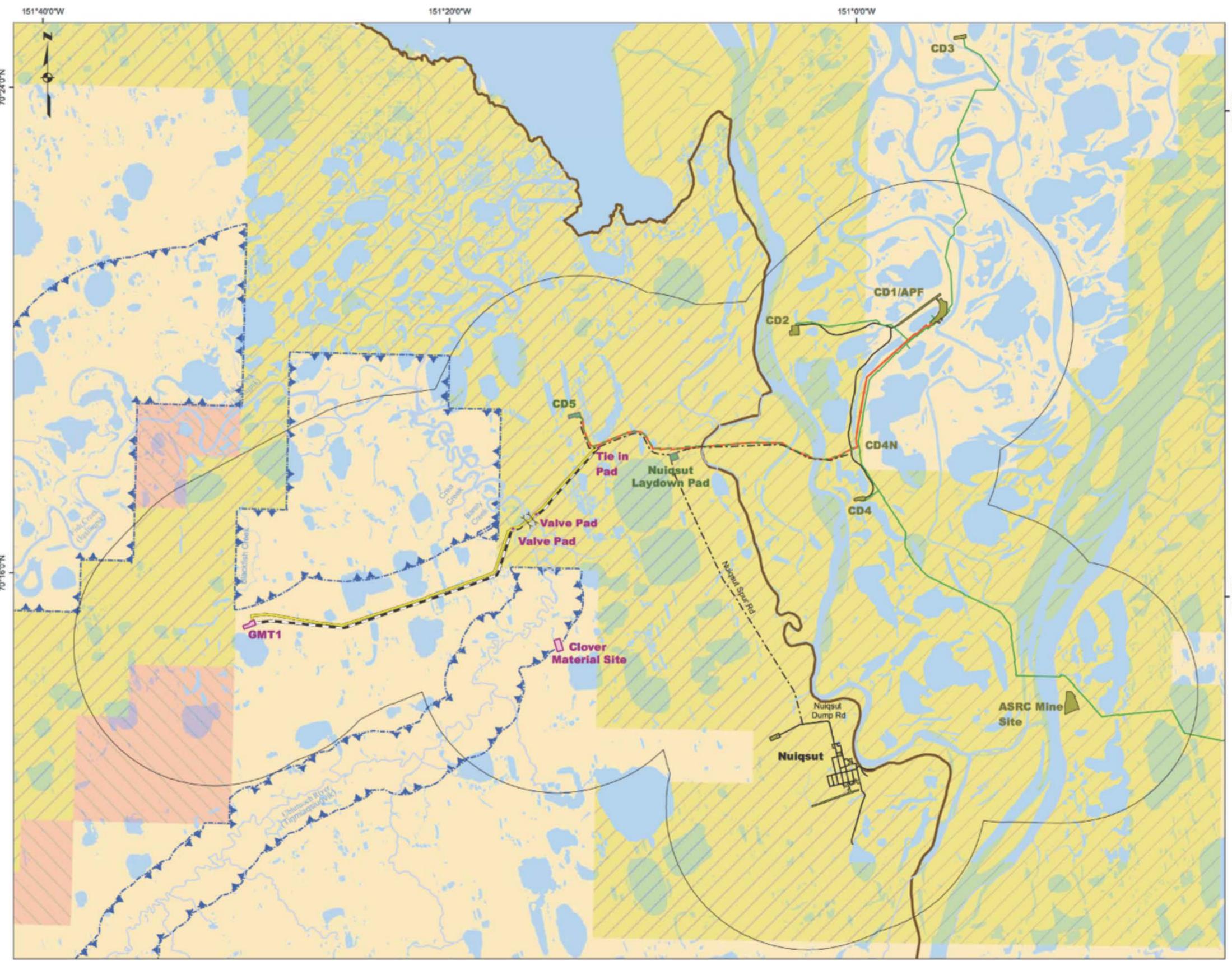


Figure 2.5-1
Alternative B
Avoiding the Fish
Creek Setback

- | | |
|---|---|
| Alternative B Infrastructure | Proposed or Permitted (not part of GMT1) |
| Pipeline | Pipeline |
| Road | Road |
| 14 inch Water ¹ Injection Line | Facility |
| Bridge | Existing |
| Facility | Pipeline |
| Boundary | Road |
| Project Study Area | Facility |
| NPR-A | Surface Land Ownership |
| Fish Creek 3 mi Ublutuoch River 0.5 mi Setback Area | Conveyed |
| | Selected |

Footnote:
1: 14 inch Water Injection line from CD1/APF to CD4N will be constructed on a new pipe rack. From CD4N to CD5 the 14-inch Water Injection line will be placed on the already proposed or permitted pipe rack (not part of GMT1).

PRELIMINARY DRAFT SEIS
Draft Date: 2/7/2014

0 0.5 1 2 3 Miles

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NAD 1983 StatePlane Alaska 4 FIPS 5004 Feet

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ALTERNATIVE B AVOIDING THE FISH CREEK SETBACK



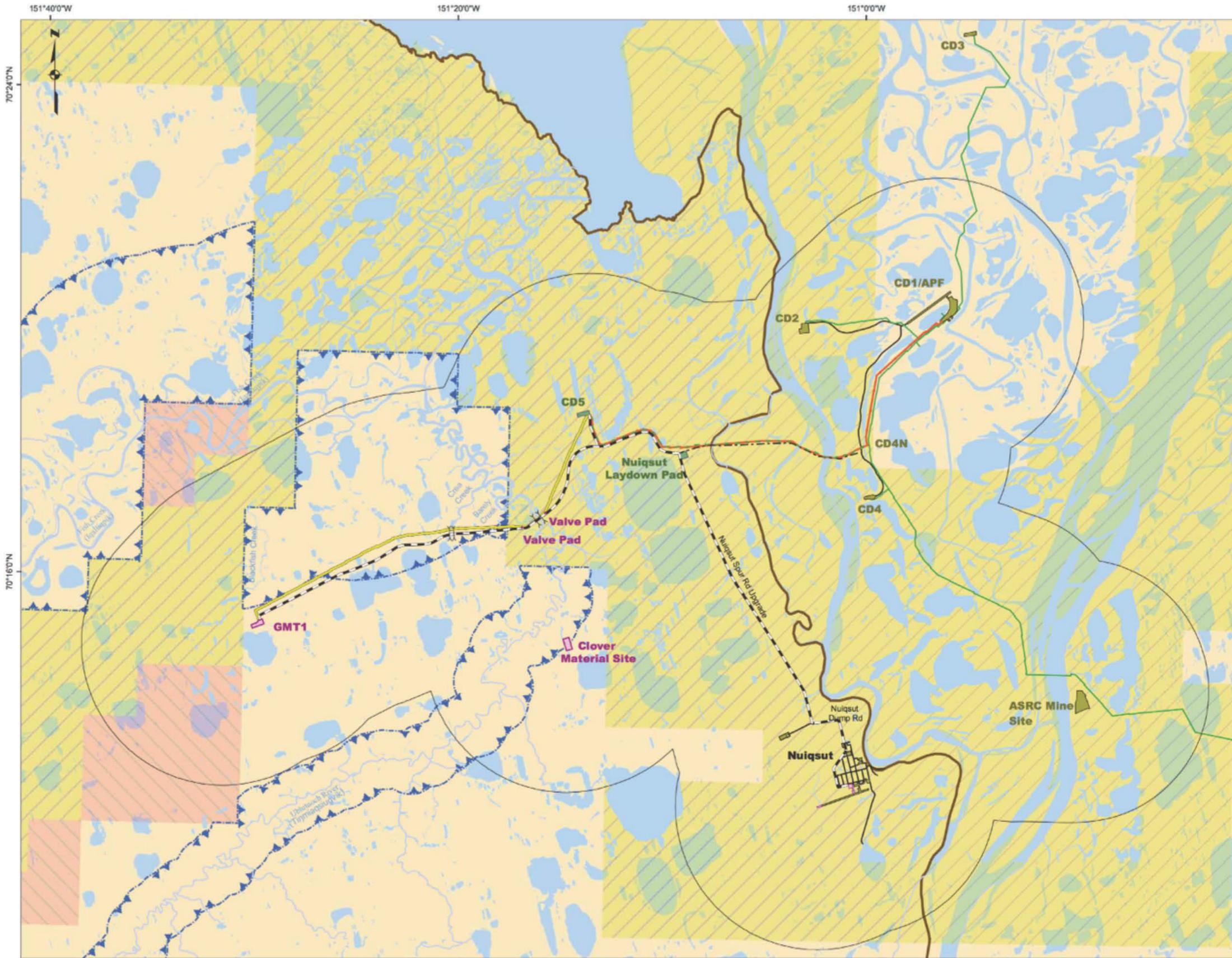


Figure 2.6-1
Alternative C
Nuiqsut Alternative Access

Alternative C Infrastructure	Proposed or Permitted (not part of GMT1)
Pipeline	Pipeline
Road	Road
14 inch Water ¹ Injection Line	Facility
Bridge	Existing
Facility	Pipeline
	Road
	Facility
Boundary	
Project Study	Surface Land Ownership
NPR-A	Conveyed
	Selected
Fish Creek 3 mi Ublutuoch River 0.5 mi Setback Area	

Footnote:
 1: 14 inch Water Injection line from CD1/APF to CD4N will be constructed on a new pipe rack. From CD4N to CD5 the 14-inch Water Injection line will be placed on the already proposed or permitted pipe rack (not part of GMT1).

PRELIMINARY DRAFT SEIS
 Draft Date: 2/7/2014

0 0.5 1 2 3 Miles

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NAD 1983 StatePlane Alaska 4 FIPS 5004 Feet

Bureau of Land Management - Alaska
 National Petroleum Reserve - Alaska

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ALTERNATIVE C
 NUIQSUT
 ALTERNATIVE ACCESS

National Petroleum Reserve in Alaska

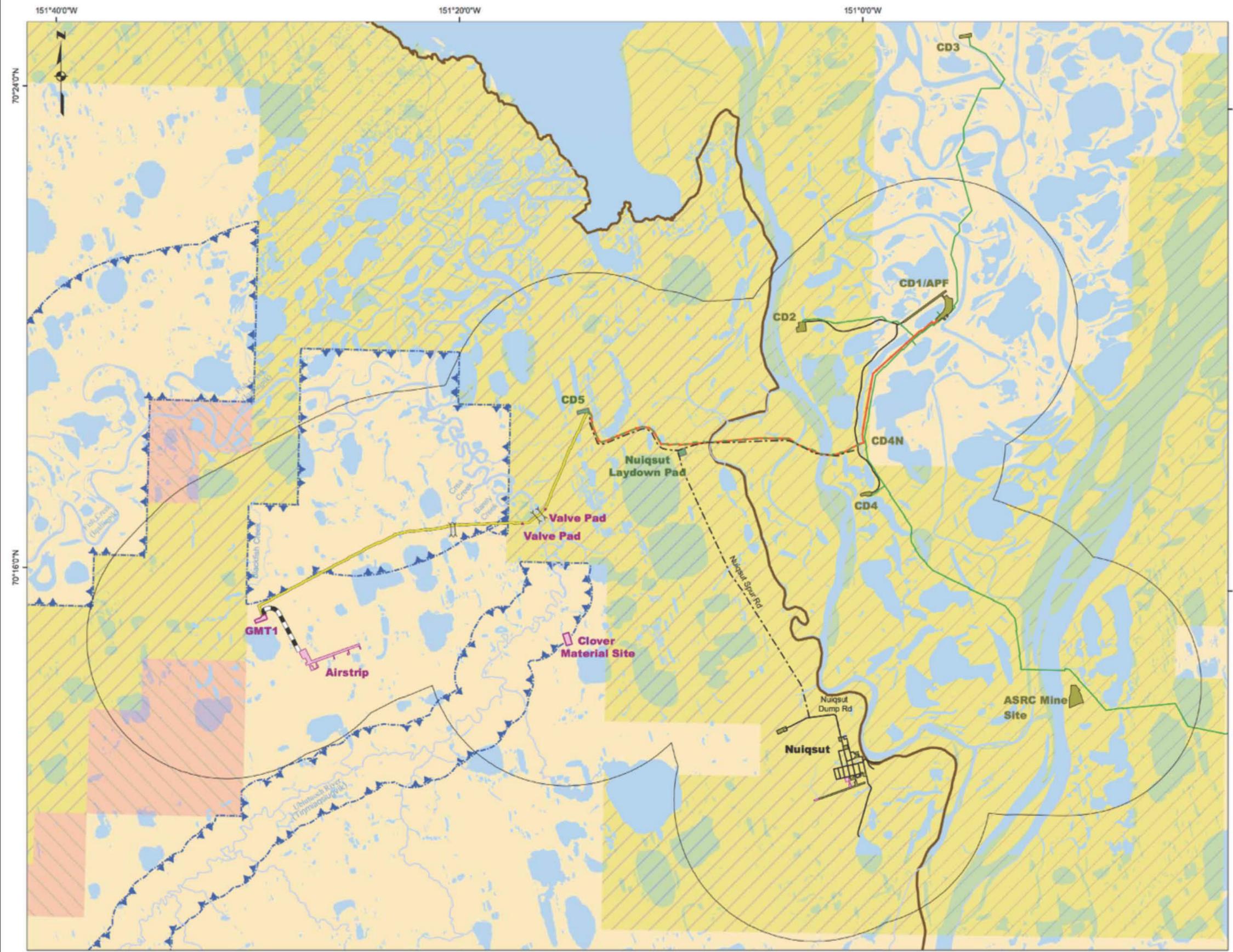


Figure 2.7-1
Alternative D
Limited Access

Alternative D Infrastructure	Proposed or Permitted (not part of GMT1)
Pipeline ¹	Pipeline
Access Road	Road
14 inch Water ^{1,2} Injection Line	Facility
Bridge	Existing
Facility	Pipeline
	Road
	Facility
Boundary	
Project Study Area	Surface Land Ownership
NPR-A	Kuukpik Lands
	Conveyed
Fish Creek 3 mi	Selected
Ublutuoch River 0.5 mi	
Setback Area	

Footnote:
 1: Pipeline includes a 2 inch diesel line & 2 inch waterline from CD1 to GMT1
 2: 14 inch Water injection line from CD1/APF to CD4N will be constructed on a new pipe rack. From CD4N to CD5 the 14-inch Water injection line will be placed on the already proposed or permitted pipe rack (not part of GMT1).

PRELIMINARY DRAFT SEIS
 Draft Date: 2/7/2014

0 0.5 1 2 3 Miles

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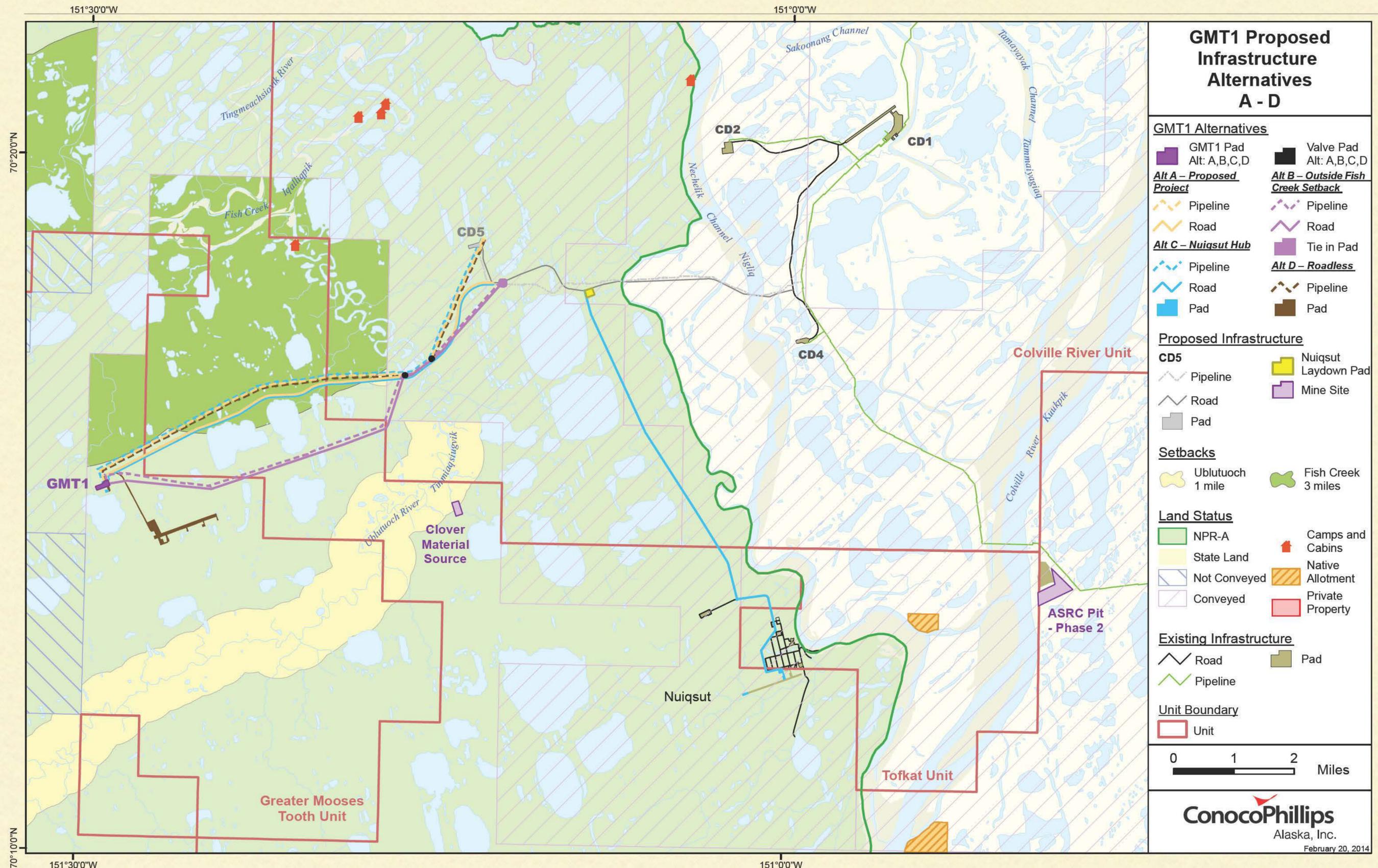
NAD 1983 StatePlane Alaska 4 FIPS 5004 Feet

Bureau of Land Management - Alaska
 National Petroleum Reserve - Alaska

GMT1 Development Project Supplemental Environmental Impact Statement 2014

ALTERNATIVE D LIMITED ACCESS AIRPORT & ICE ROAD



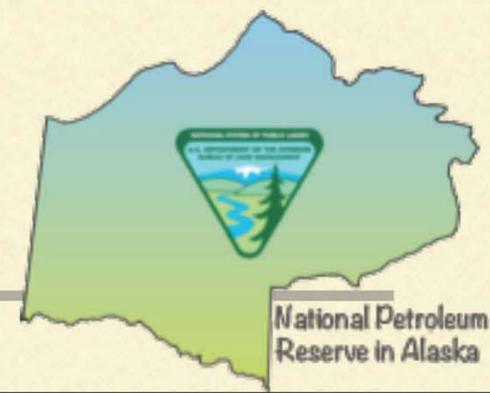


ALTERNATIVES A-D



COMPARISON OF VARYING
 IMPACTS BETWEEN
 ALTERNATIVES A, B, C, & D

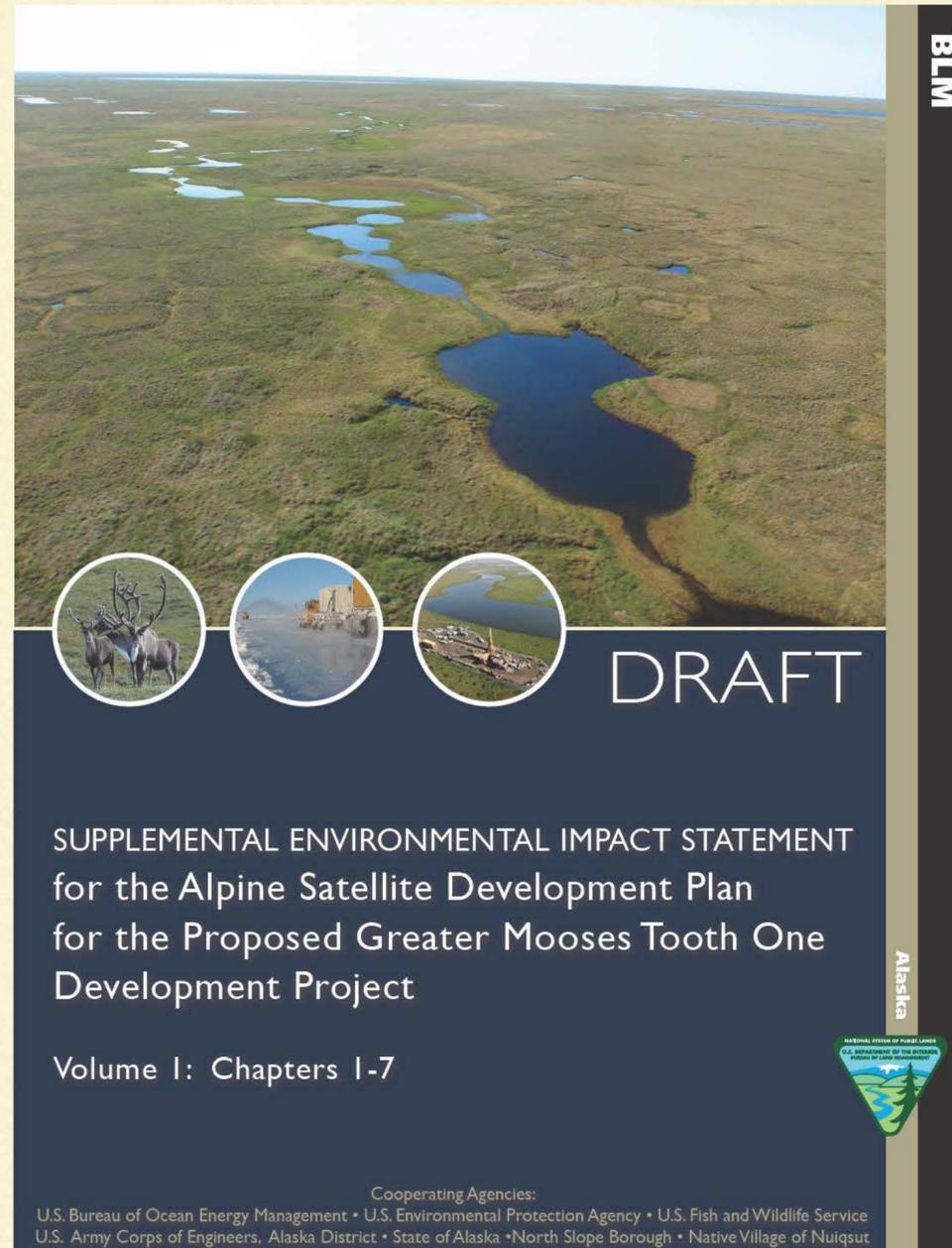
COMPONENT	ALT A	ALT B	ALT C	ALT D
Drill Pad	11.8 acres	11.8 acres	11.8 acres	15.7 acres
Road Length	7.8 miles	8.6 miles	7.8 miles	0 miles
Gravel Footprint	72.5 acres	75.2 acres	103.6 acres	87.3 acres
Air Qual. Stds	Complies	Complies	Complies	Does not comply
Noise	Minor	Minor	Minor	Moderate
Vegetation & Wetlands	Moderated	Minor	Moderate	Minor
Terrestrial Mammals	Minor	Minor	Minor	Moderate



STEPS IN THE PROCESS

- Draft Supplemental EIS released for public review February 21, 2014.
 - Accepting public comments through April 22, 2014.
 - All substantive comments will be addressed in the Final SEIS
 - Cooperator comments and errata will be addressed as well.
 - A preferred alternative will be selected, which may be one of the existing alternatives, but more likely will combine aspects of more than one current alternative.
 - A Final SEIS will be prepared
 - A period will be allowed for public review
 - A Record of Decision will be prepared
-

WHAT'S IN THE DOCUMENT? (ONE STRATEGY)



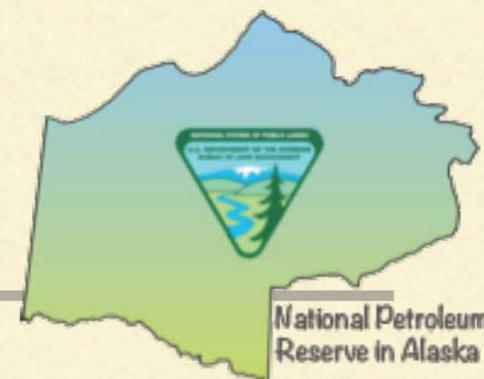
- Look over the Table of Contents
- Look at Table 4.1-1. It lays out the major direct impacts to the land from each alternative
- Look at Table 4.1-2. It summarizes the impact of each alternative on the environment
- Look at more detailed discussion and tables in Chapter 4
- Check Impacts of spills (p. 326-334)
- Check Cumulative Impacts (p. 335-401)
- Check mitigation measures, unavoidable adverse impacts (p. 401-414)
- Then look for the reasoning behind the impacts assessment and mitigation measures you question

CARIBOU

Table 4.3-13. Impact Criteria for Terrestrial Mammals

Impact Category	Magnitude	Definition
Intensity	High	Potentially affecting more than 25% of all terrestrial habitat or specific habitat in the project study area, or a population of animals.
	Medium	Potentially affecting more than 5% and less than 25% of all terrestrial habitat or specific habitat in the project study area, or a population of animals.
	Low	Potentially affecting 5% or less of all terrestrial habitat or a specific habitat in the project study area, or a population of animals.
Duration	Long term	Lasting five or longer than five breeding seasons.
	Interim	Lasting two or longer than two breeding seasons, but less than 5 breeding seasons.
	Temporary	Lasting less than two breeding seasons.
Context	Unique	The affected resource is rare or is depleted either within the locality or the region. Impacts will occur in times or areas of specific importance for affected species (e.g. foraging, calving areas, migratory corridor) or across a large portion of the range of a resident population.
	Important	The affected resource is protected by legislation or the portion affected fills a distinctive ecosystem role within the locality or the region. Impacts will not occur in times or areas of specific importance for affected species (e.g. foraging, calving areas, migratory corridor) or across a large portion of the range of a resident population.
	Common	The affected resource is considered usual or ordinary in the locality or region; it is not depleted in the locality and is not protected by legislation. Impacts will not occur in times or areas of specific importance for affected species (e.g. foraging, calving areas, migratory corridor) or across a large portion of the range of a resident population.
Geographic Extent	Statewide	Arctic Coastal Plain.
	Regional	Habitat Loss and Alteration: Extending beyond the 300 ft indirect impact zone; Disturbance: Extending beyond project study area to include known ranges of major caribou herds using project study area.
	Local	Habitat Loss and Alteration: Within the gravel footprint and 300 ft indirect impact zone; Disturbance: Within project study area (2.5-mile buffer around project footprint).

IMPACT CRITERIA FOR
TERRESTRIAL MAMMALS



IMPACT SUMMARY FOR CARIBOU

Table 4.3-17. Impact Criteria Summary for Terrestrial Mammals – Alternatives A, B, and C

Alternatives A , B, and C					
Impact Type and Affected Population		Intensity	Duration	Context	Geographic Extent
Habitat Loss and Alteration	Small Mammals	Low	Long term	Common	Local
	Caribou Potential Use Habitats (within 300 ft)	Low	Long term	Common	Local
Disturbance	Arctic Fox Dens/Den Habitat	Low	Long term	Common	Local
	Grizzly Bear Dens/Den Habitat (within 2.5 miles)	Low	Long term	Common	Local
	Caribou (non-calving; within 2.5 miles)	Low	Long term	Important	Local
	Calving Caribou ¹ (within 2.5 miles)	Low	Long term	Important	Local
	Muskoxen and Grizzly Bear (within 2.5 miles)	Low	Long term	Common	Local

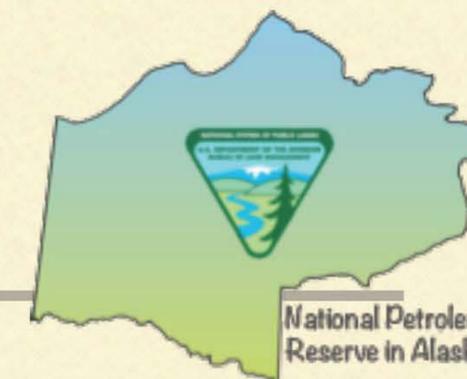
¹ The project study area is not within the reported caribou calving use areas in NPR-A (BLM 2012, Map 3.3.6-5, Teshekpuk Lake Caribou Herd - Calving Areas).

Impact criteria definitions are presented in Table 4.3-1.

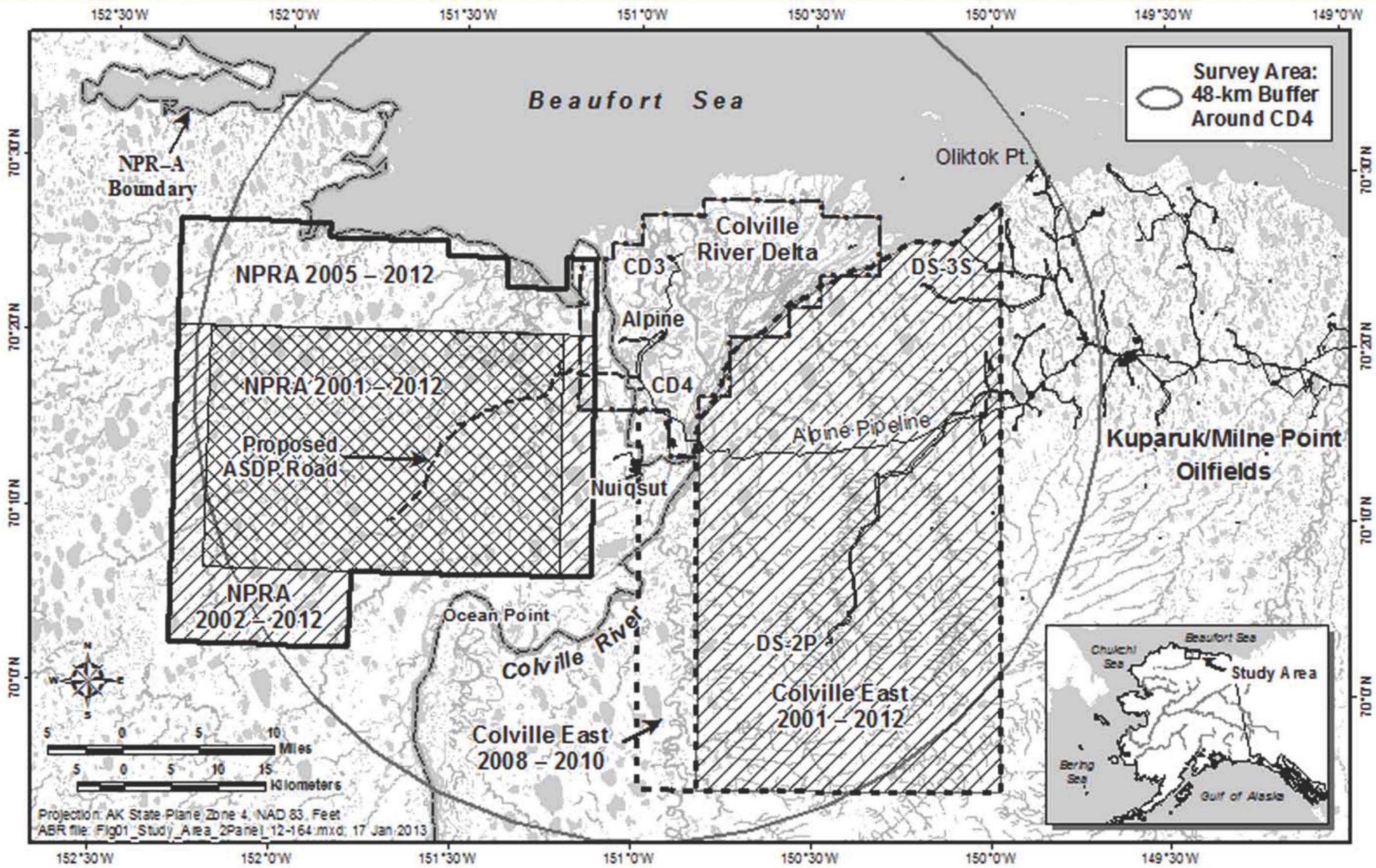
Table 4.3-18. Impact Criteria Summary for Terrestrial Mammals – Alternative D

Alternative D					
Impact Type and Affected Population		Intensity	Duration	Context	Geographic Extent
Habitat Loss and Alteration	Small Mammals	Low	Long term	Common	Local
	Caribou Potential Use Habitats (within 300 ft)	Low	Long-term	Common	Local
Disturbance	Arctic Fox Dens/Den Habitat	Low	Long term	Common	Local
	Grizzly Bear Dens/Den Habitat (within 2.5 miles)	Low	Long term	Common	Local
	Caribou (non-calving; within 2.5 miles)	Medium	Long term	Important	Regional
	Calving Caribou ¹ (within 2.5 miles)	Low	Long term	Important	Local
	Muskoxen and Grizzly Bear (within 2.5 miles)	Low	Long term	Common	Local

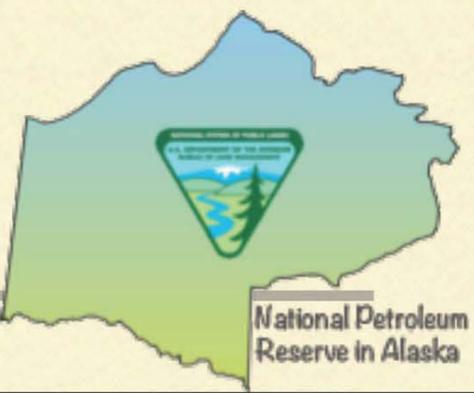
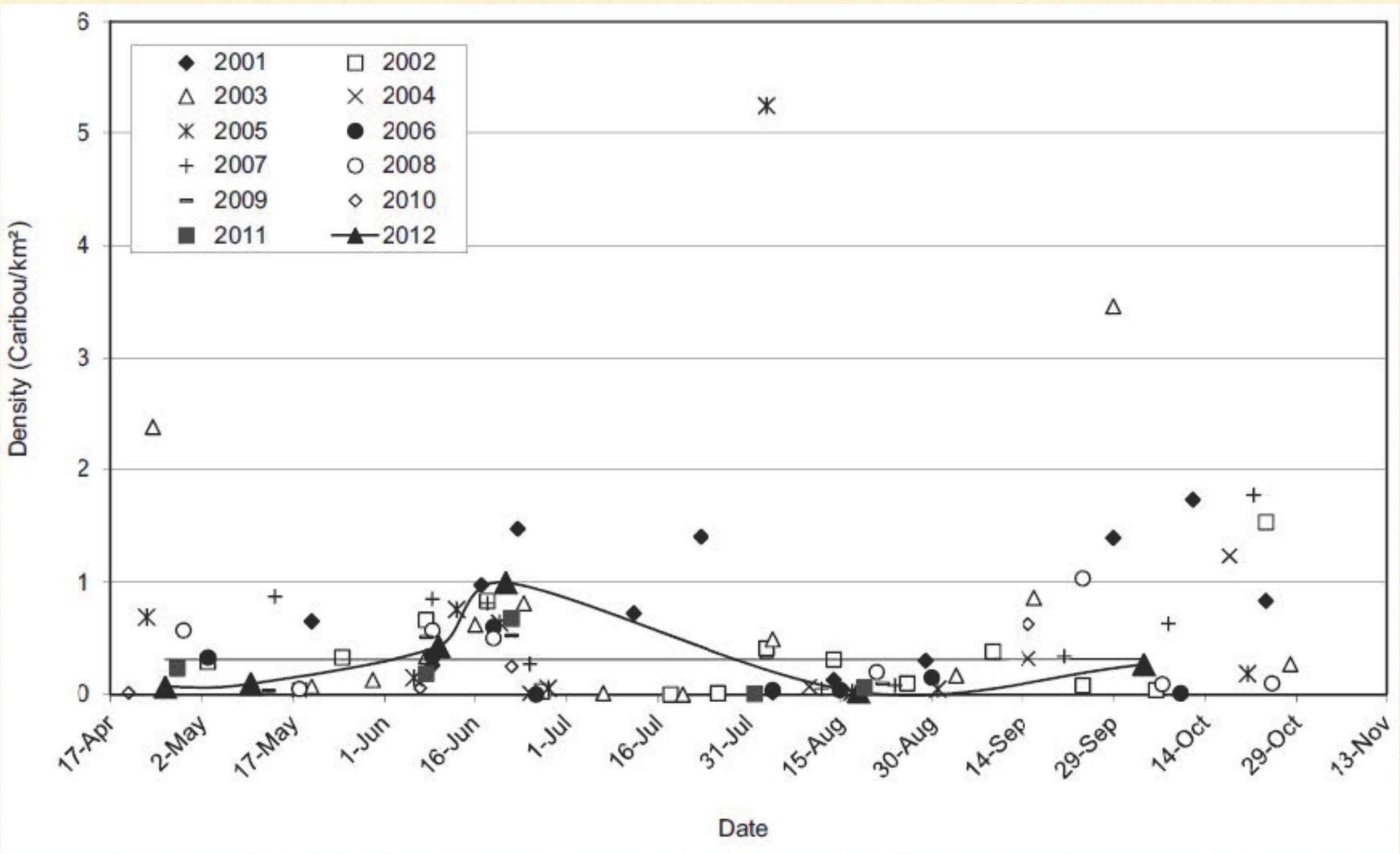
¹ The project study area is not within the reported caribou calving use areas in NPR-A (BLM 2012, Map 3.3.6-5, Teshekpuk Lake Caribou Herd - Calving Areas).



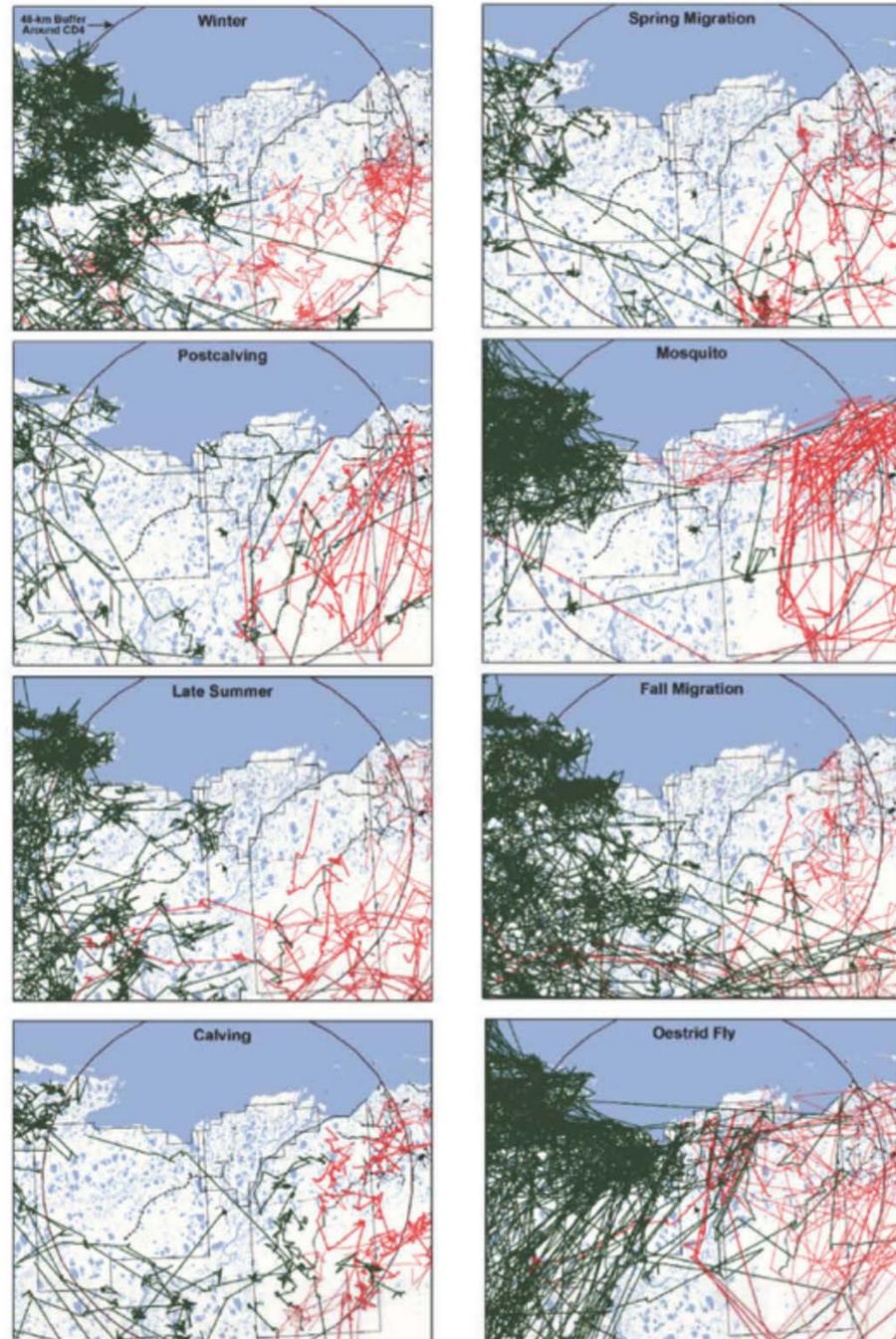
LOCATION OF THE ASDP
 CARIBOU MONITORING
 STUDY AREA (2001 – 2012)



LOCATION OF THE ASDP CARIBOU MONITORING STUDY AREA (2001 – 2012)



Movements of satellite-collared caribou from the Teshekpuk Herd (1990-2012 and Central Arctic Herd (1986-1990 and 2001-2009) in the ASDP study area during 8 different seasons.



Movements of GPS-collared caribou from the Teshekpuk Herd (2004-2012) and Central Arctic Herd (2003-2006, 2008-2012) in the ASDP study area during 8 different seasons.

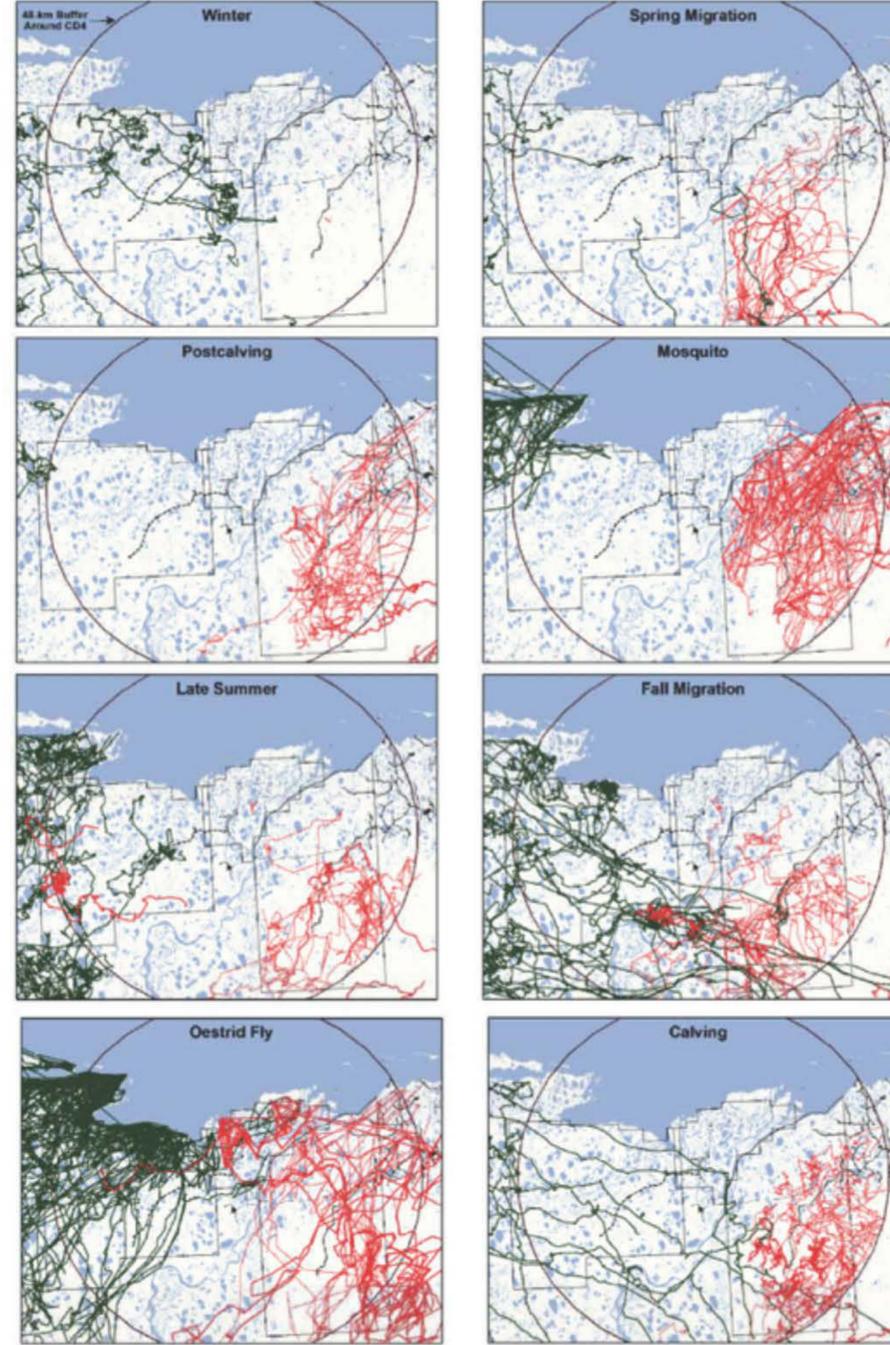


Figure 3.3-11

Ranges of the Teshekpuk and Central Arctic Caribou Herds, Satellite and GPS

Legend

- Central Arctic Herd
- Teshekpuk Herd
- Existing Infrastructure
- Proposed ASDP Road
- Aerial Survey Area

DRAFT SEIS
Draft Date 1/23/2014

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NAD 1983 StatePlane Alaska 4 FIPS 5004 Feet



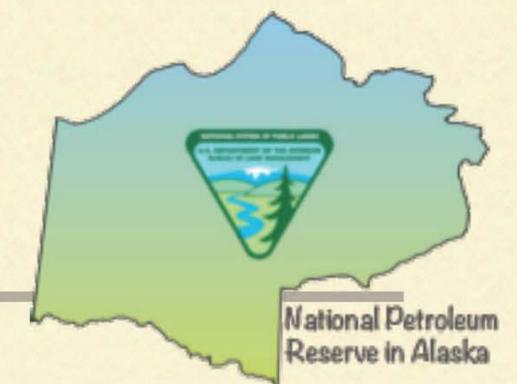
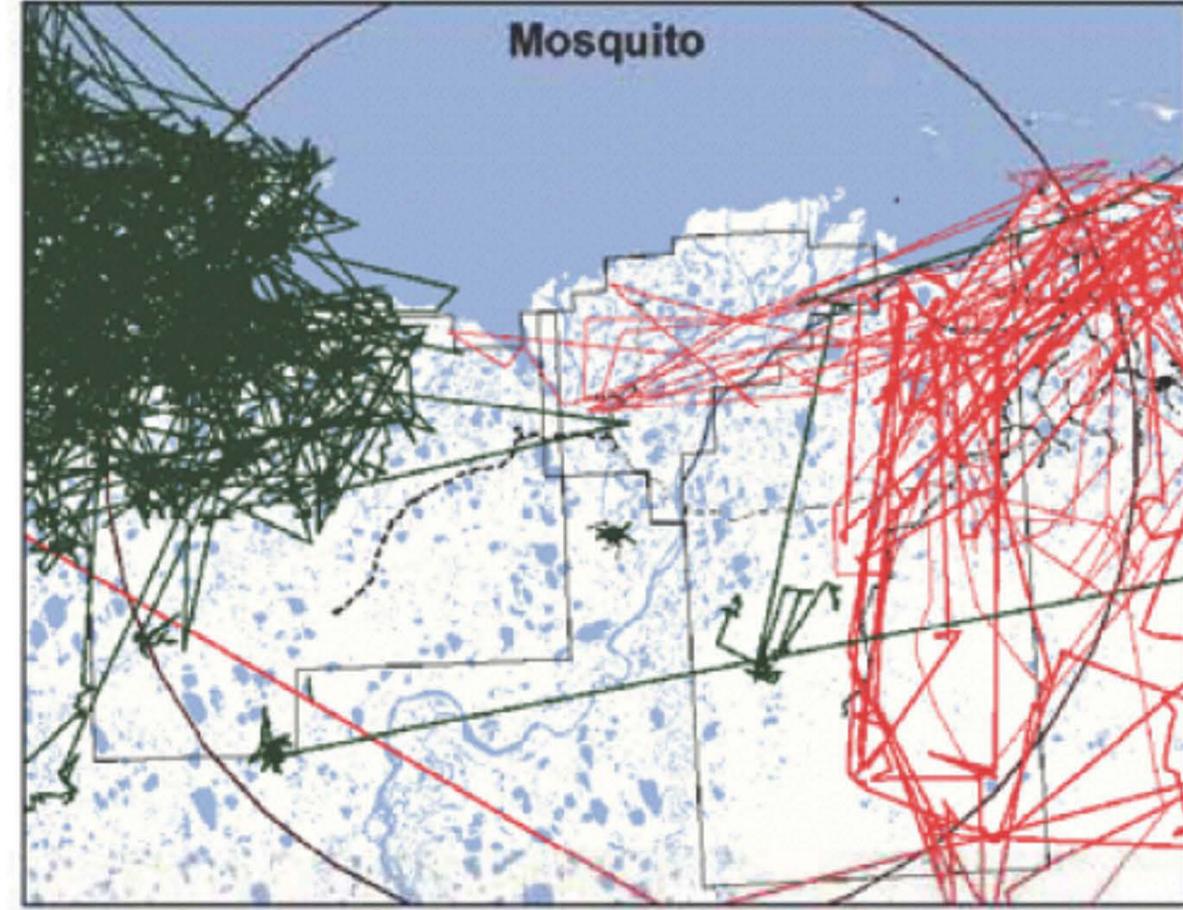
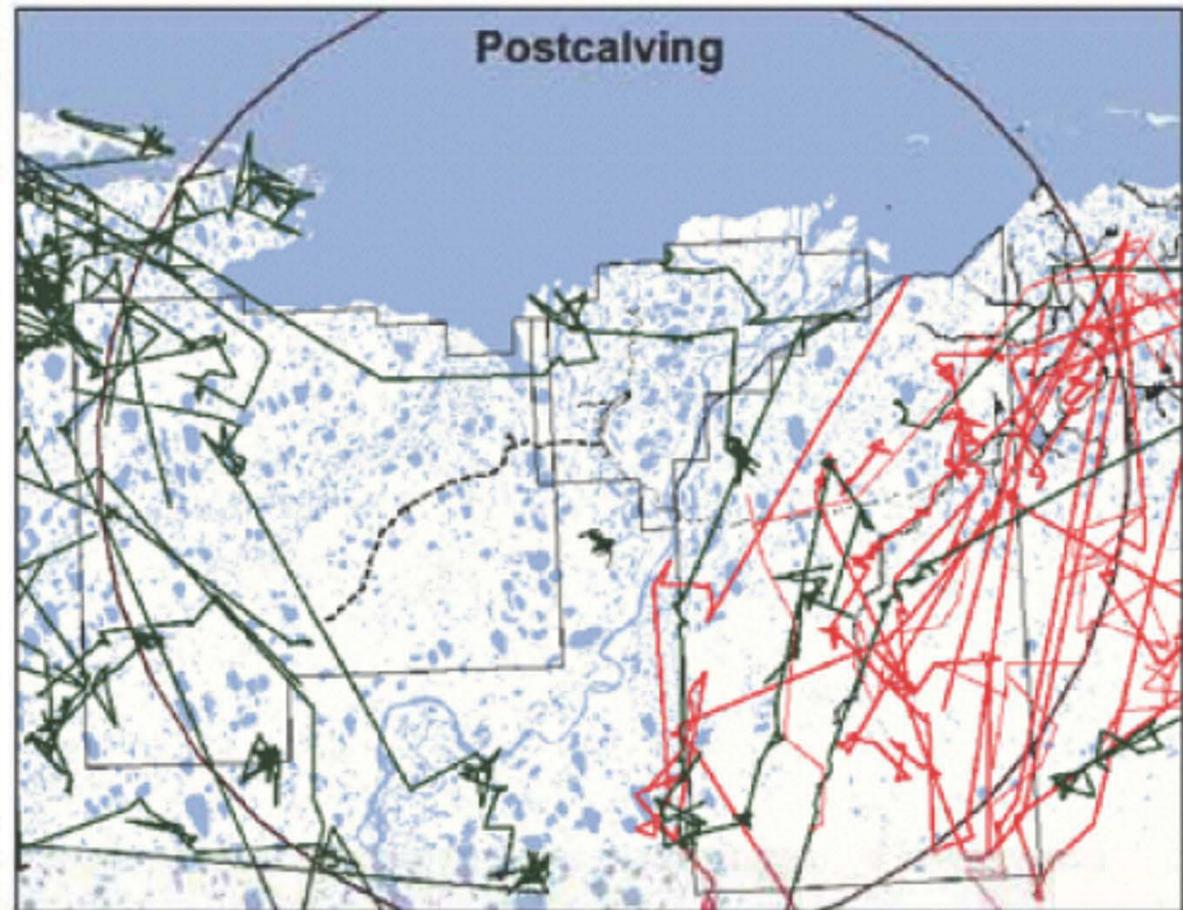
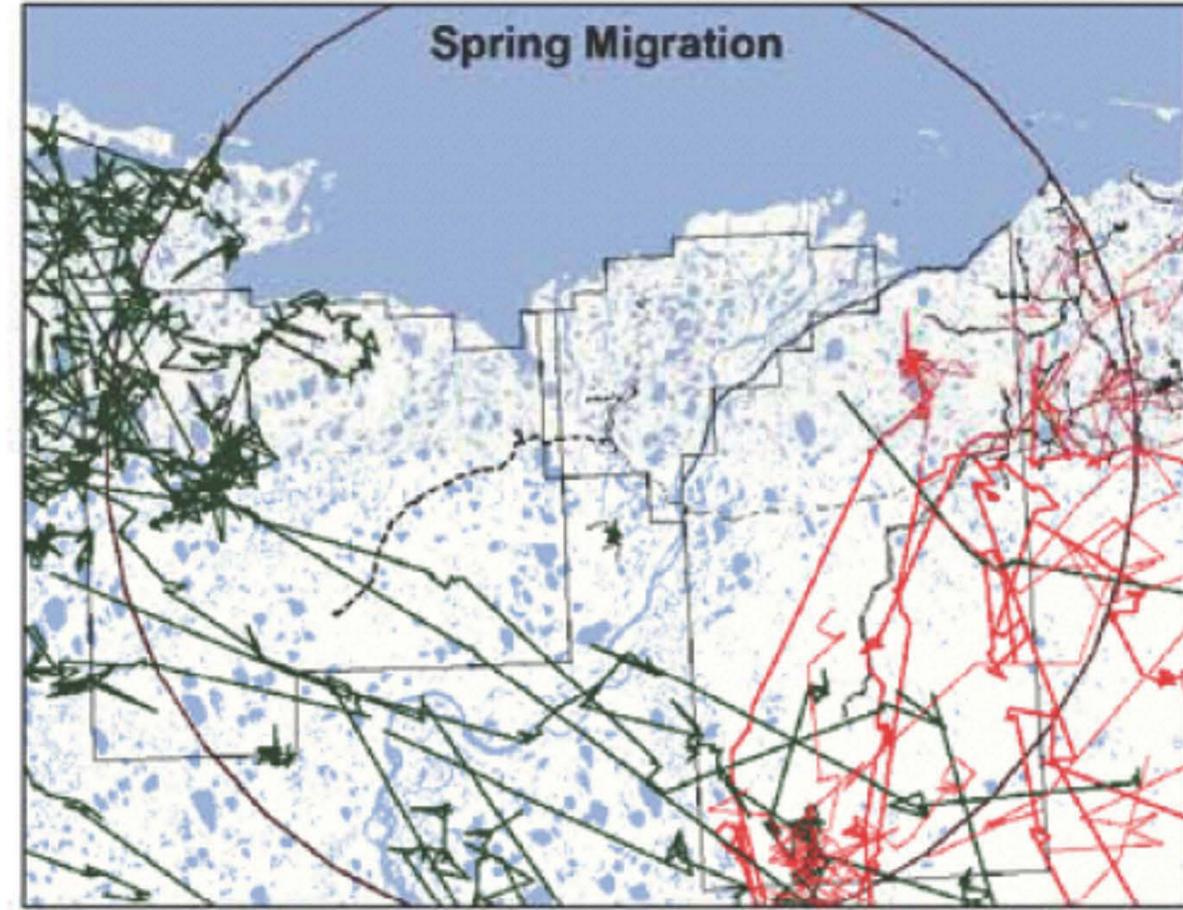
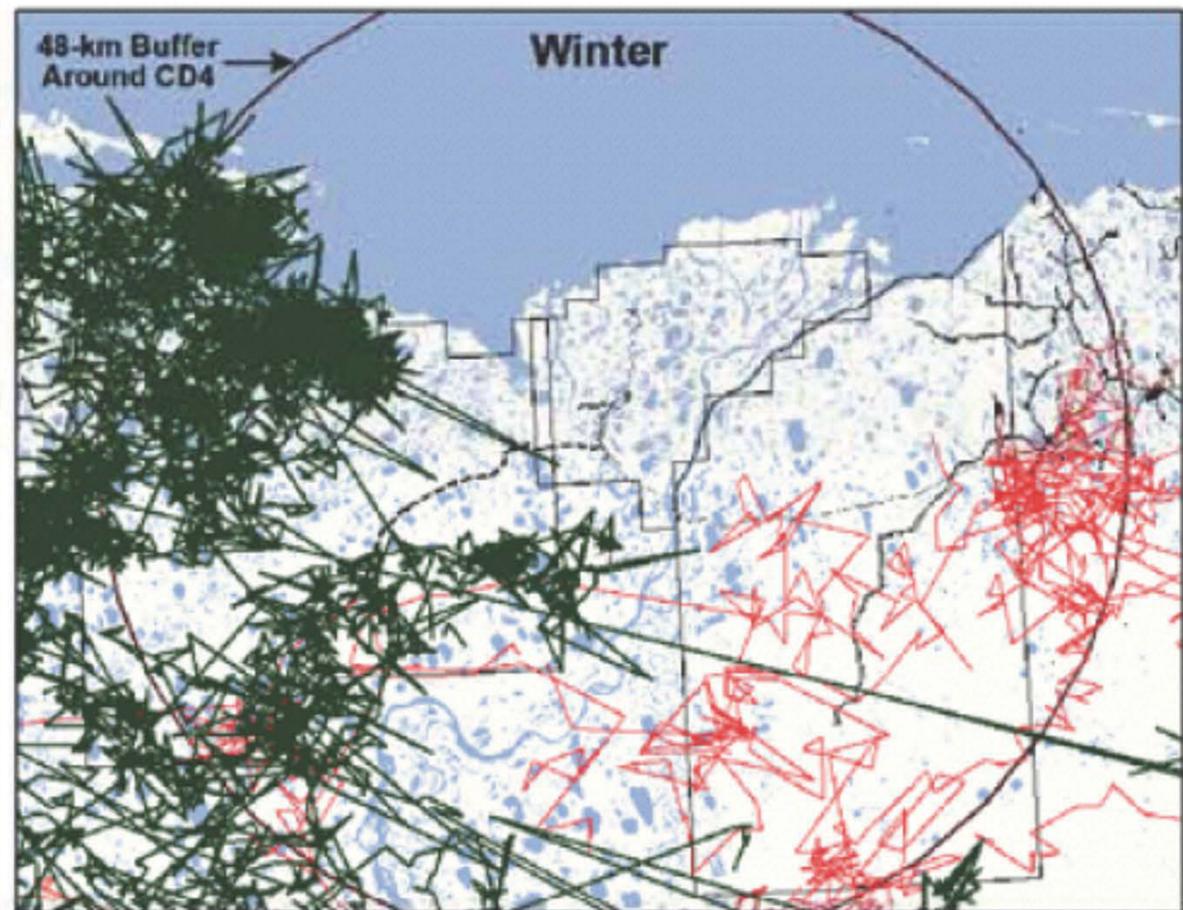
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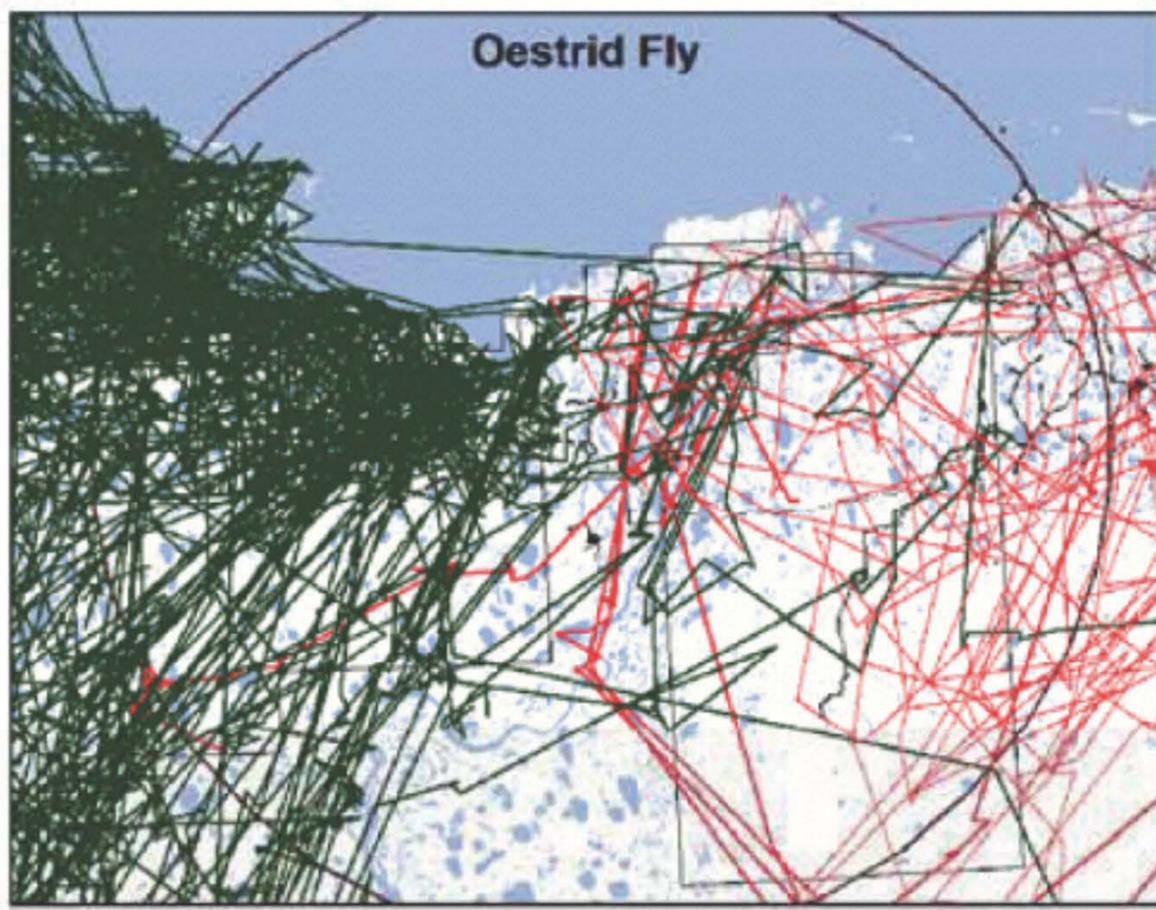
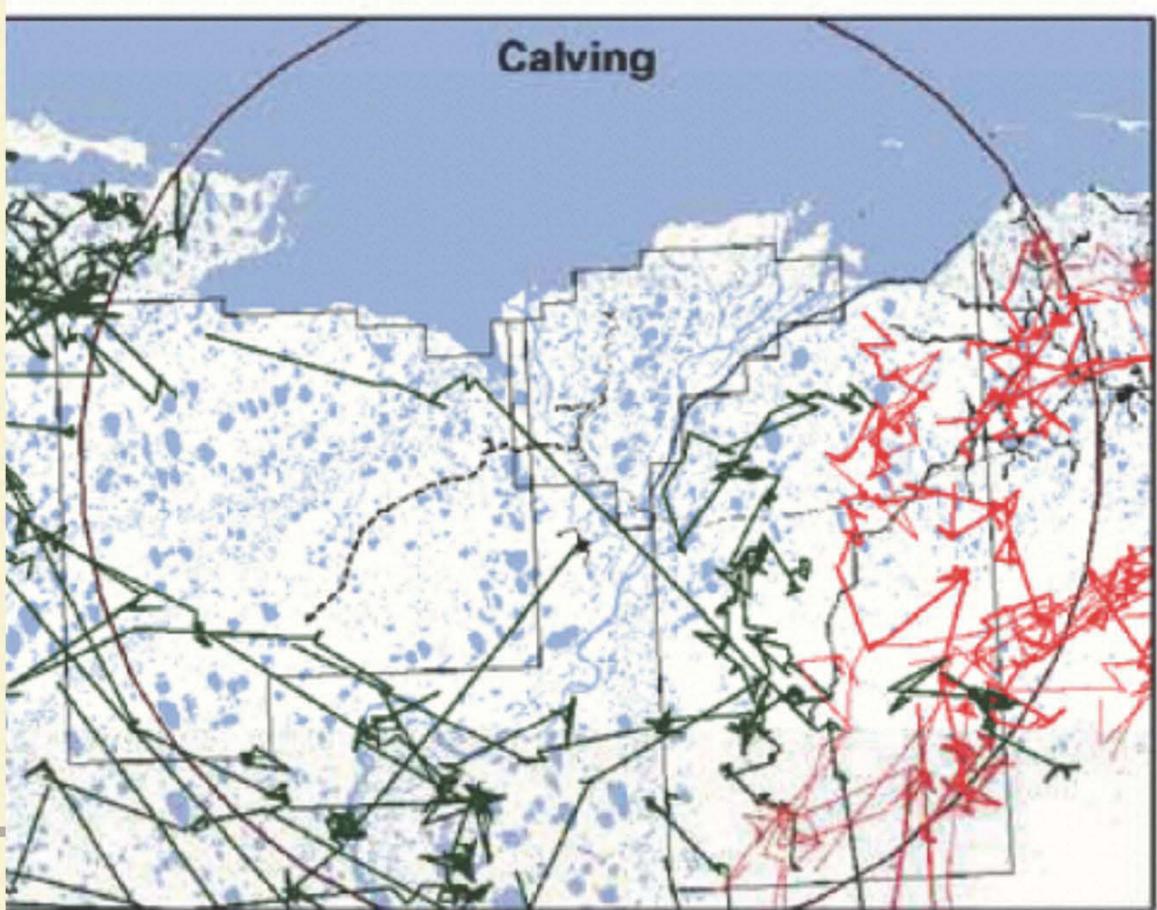
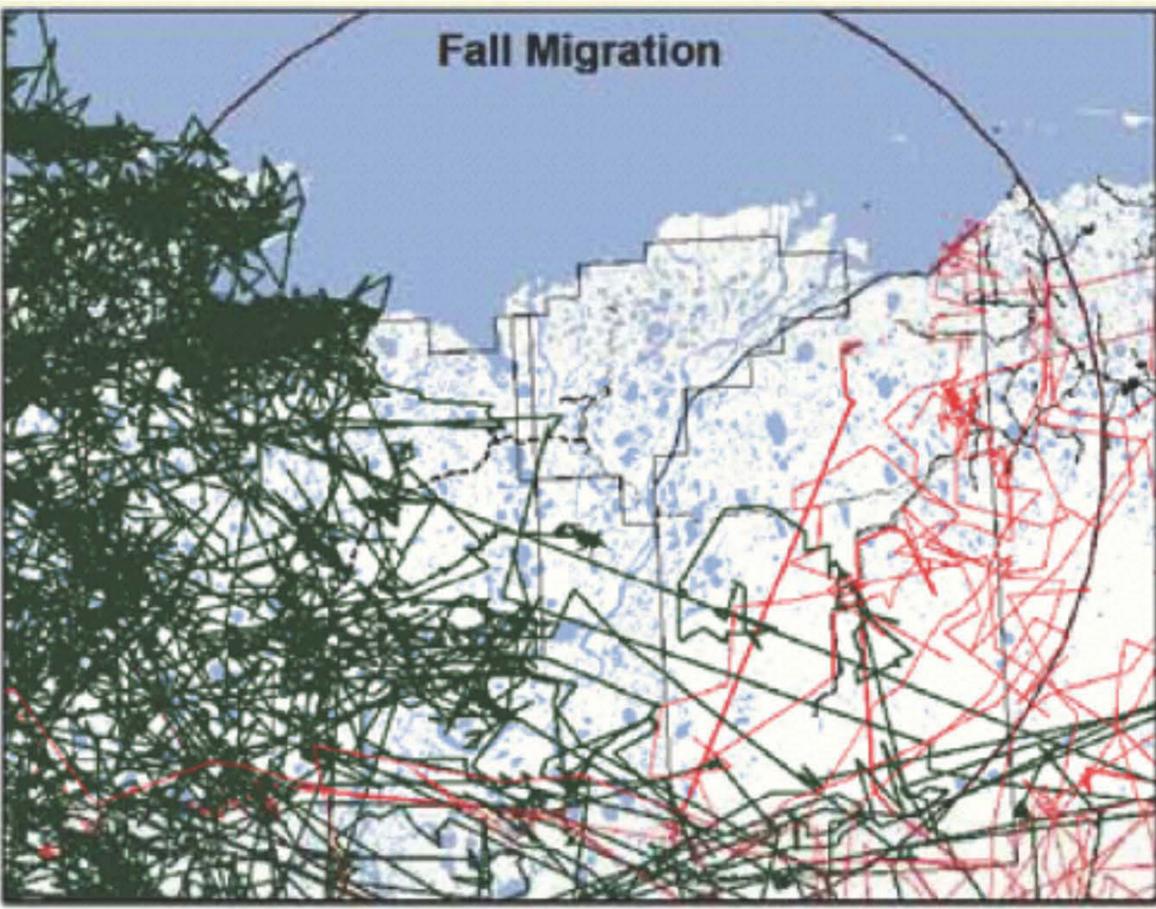
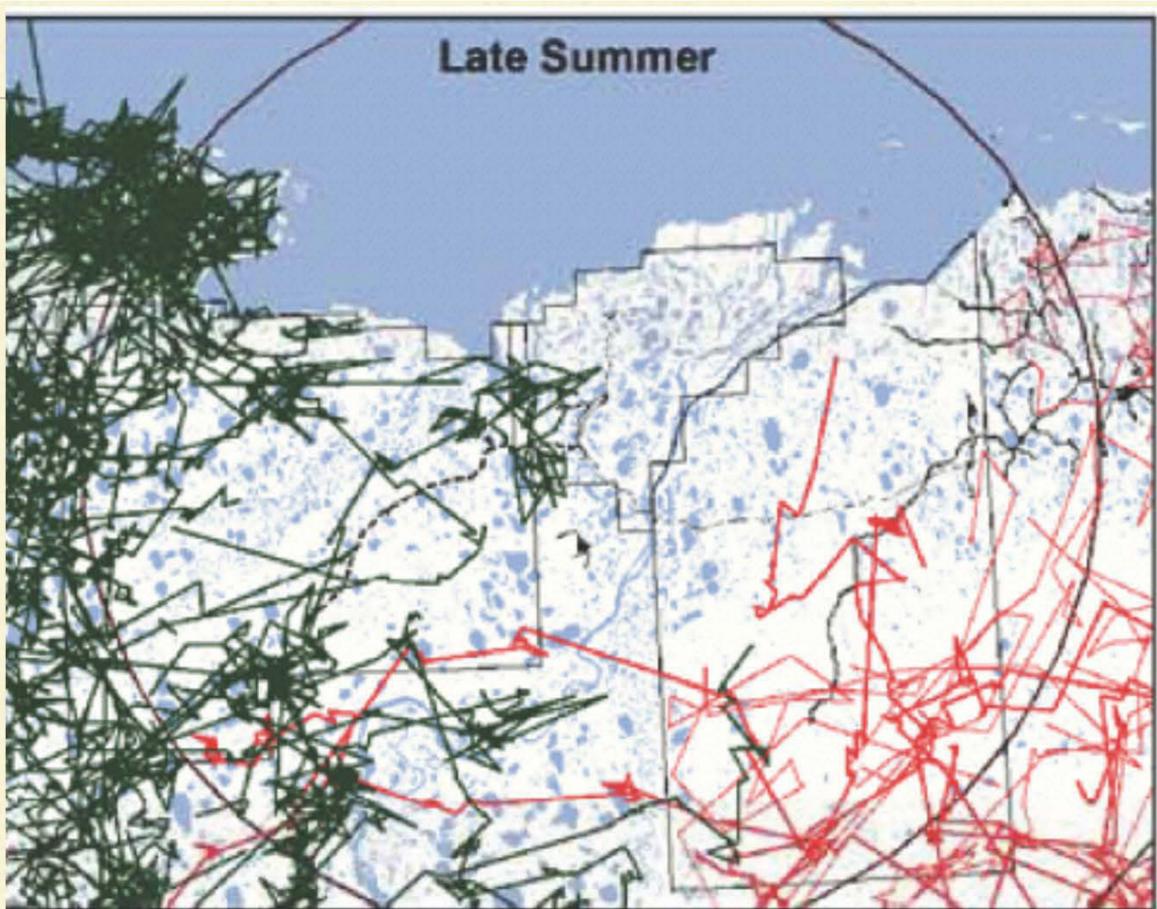
CARIBOU RANGES FROM SATELLITE AND GPS



CARIBOU RANGES FROM SATELLITE



CARIBOU RANGES FROM
SATELLITE



COMMENTS

- Identification of new information that would have a bearing on the analysis.
 - Inaccuracies or discrepancies in information, or any errors in our portrayal of the resources or current status of the project area.
 - Identification of new impacts, alternatives, or potential mitigation measures.
 - What should be in the preferred alternative?
-

COMMENTING

- You may email us via SLR, our contractor assisting with receiving and analyzing public comments, at: gmtlcomments@slrconsulting.com.
 - You may write to us at: GMTI SEIS Comments, Attn: Bridget Psarianos, 222 West 7th Avenue, #13, Anchorage, AK 99513-7504
 - You may fax comments to us at (907) 271-3933 Attn: GMTI SEIS Comments
 - You may hand deliver your comments to us at the BLM Public Information Center in the Federal Building, 222 W. Seventh Avenue, Anchorage. You can also deliver comments to us at the public meetings on the Draft Supplemental EIS
 - You may speak at public meetings on the Draft Supplemental Environmental Impact Statement.
-

SUBSISTENCE DISCUSSION (STACEY FRITZ) AND COMMENTS

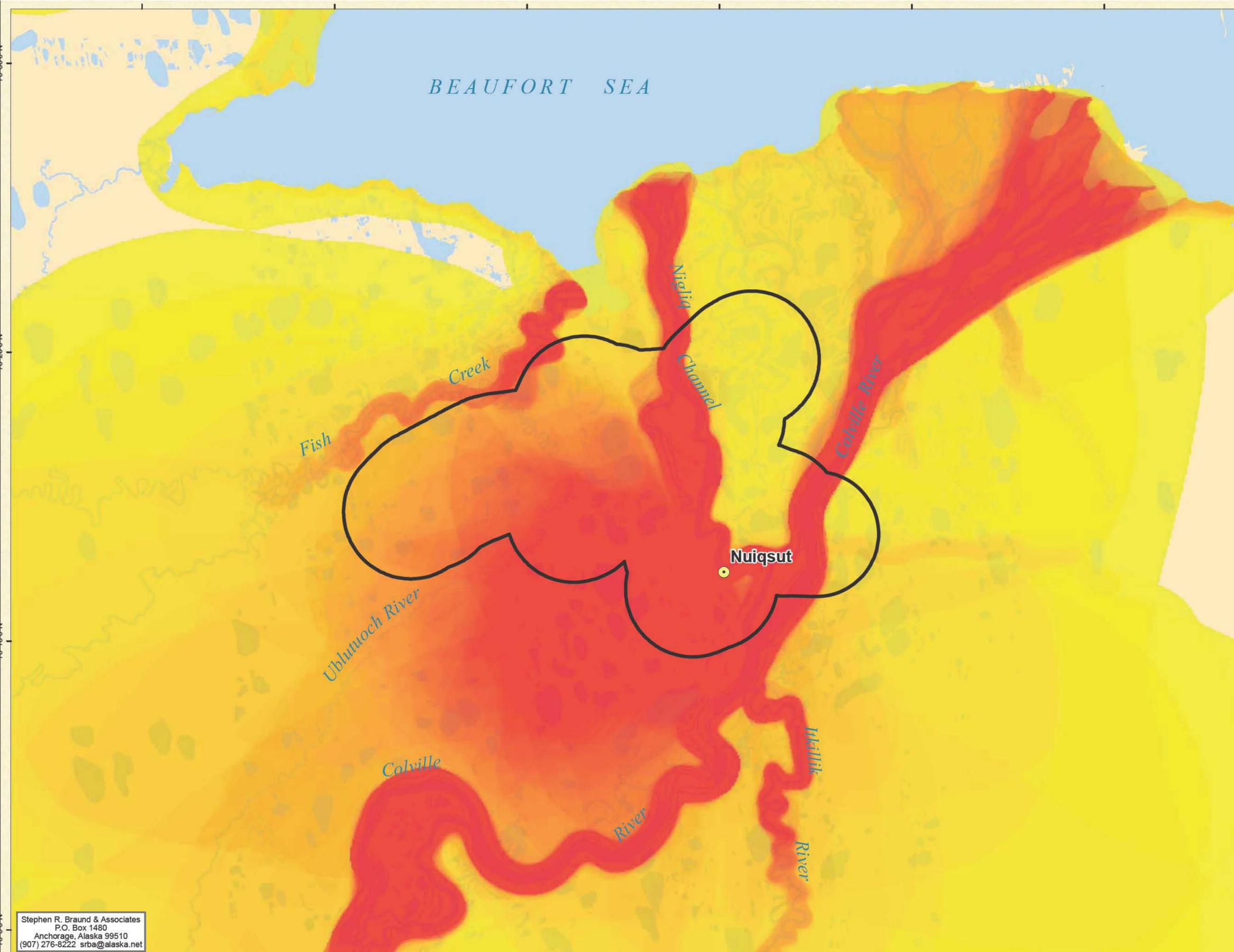


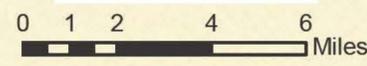
Figure 4.4-2

Caribou Subsistence Use Areas in the Project Area – 2008-2011

Legend
 High Overlapping Subsistence Use Areas, Caribou, 2008-2011
 Low (Source: SRBA 2010b, SRBA 2011, SRBA 2012, SRBA 2013)
 SRB&A interviewed 96 active harvesters from March 2009 through November of 2011. The harvesters reported 731 use areas. Use areas extend beyond the extent of this map.

- Project Study Area
- Subsistence Study Community

DRAFT SEIS
 Draft Date 1/23/2014



No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files.

NAD 1983 StatePlane Alaska 4 FIPS 5004 Feet



Bureau of Land Management - Alaska
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GMT1 Development Project Supplemental Environmental Impact Statement 2014

CARIBOU SUBSISTENCE USE AREAS 2008-2011



National Petroleum Reserve in Alaska

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 Anchorage, Alaska 99510
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ADDITIONAL PUBLIC COMMENTS

END OF FORMAL MEETING - FURTHER
DISCUSSION OF BLM-RELATED ISSUES?

QUYANAQPAK!
