U.S. Department of the Interior
Bureau of Land Management

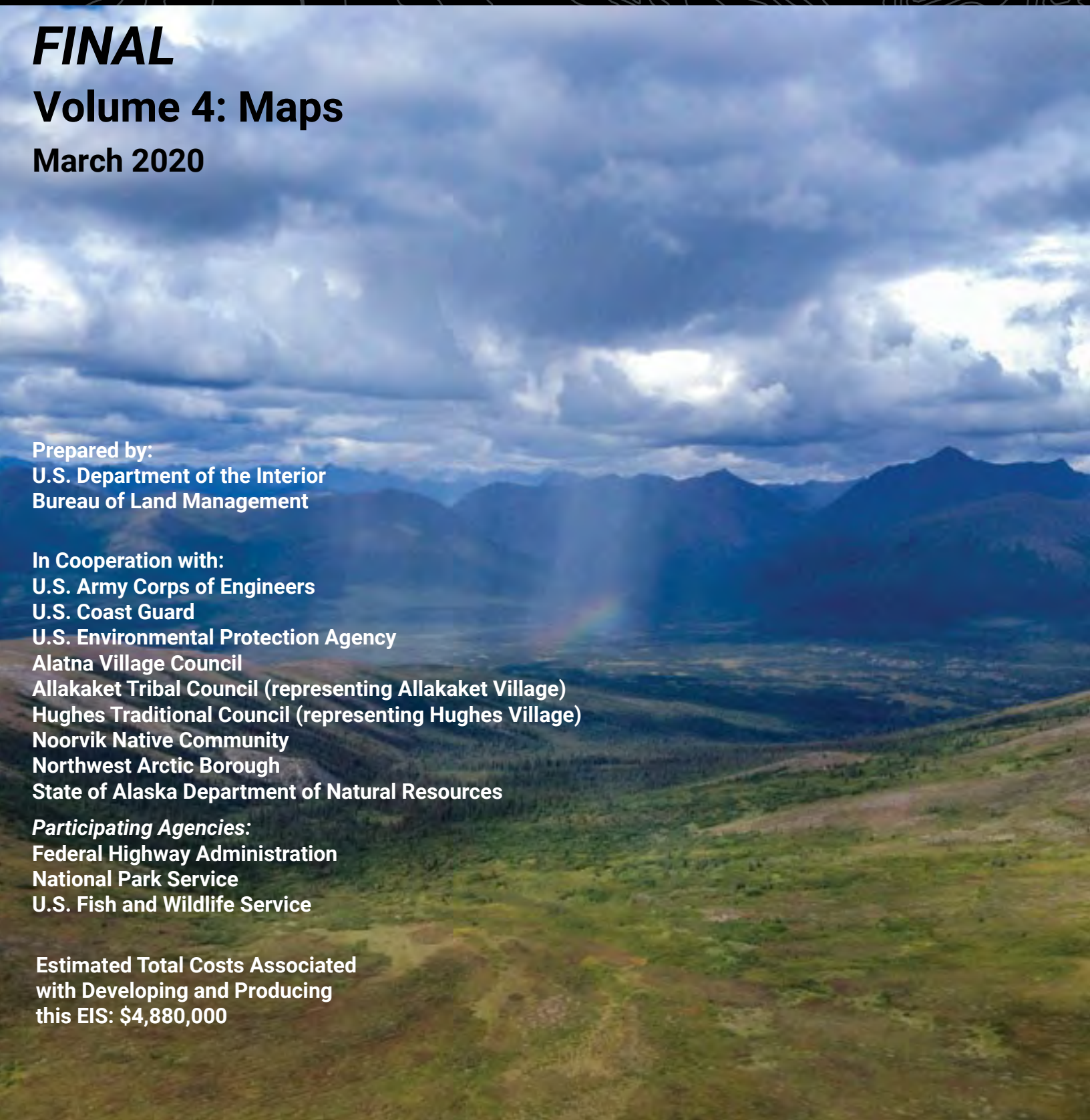
Ambler Road

Environmental Impact Statement

FINAL

Volume 4: Maps

March 2020



Prepared by:
U.S. Department of the Interior
Bureau of Land Management

In Cooperation with:
U.S. Army Corps of Engineers
U.S. Coast Guard
U.S. Environmental Protection Agency
Alatna Village Council
Allakaket Tribal Council (representing Allakaket Village)
Hughes Traditional Council (representing Hughes Village)
Noorvik Native Community
Northwest Arctic Borough
State of Alaska Department of Natural Resources

Participating Agencies:
Federal Highway Administration
National Park Service
U.S. Fish and Wildlife Service

Estimated Total Costs Associated with Developing and Producing this EIS: $4,880,000

Mission

Sustain the health, diversity, and productivity of the public lands for the use and enjoyment of present and future generations.

Cover Photo: Looking north at the Brooks Range from the Alatna Hills. Photo by Crystal Glassburn (BLM).

DOI-BLM-AK-F030-2016-0008-EIS
BLM/AK/PL- 19/013+1610+F030

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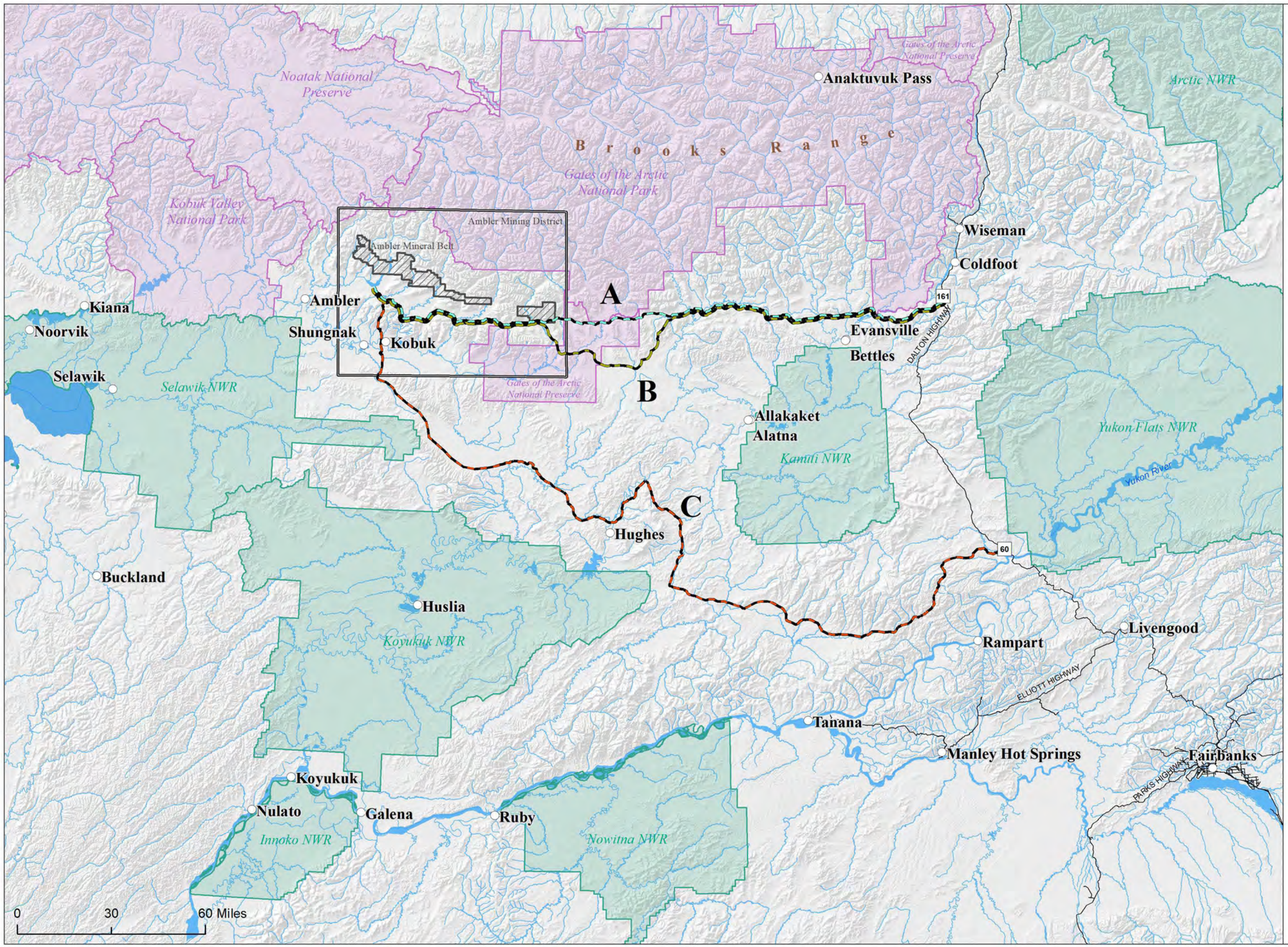

Alternative A: Alaska Industrial Development and Export Authority Proposed Route (Gates of the Arctic National Park and Preserve North) to the Dalton Highway

Alternative B: Alaska Industrial Development and Export Authority Alternative Route (Gates of the Arctic National Park and Preserve South) to the Dalton Highway

Alternative C: Diagonal Route to the Dalton Highway

Dalton Highway Mile Post

Community

Ambler Mining District[a]

Ambler Mineral Belt[a]

National Wildlife Refuge Boundary[a]

National Park Service Boundary[a]

SOURCES:
[a]BLM 2018

Date: 3/3/2020
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Map 1-1

Chukchi Sea
Kotzebue Sound
Norton Sound
Noatak National Preserve
Cape Krusenstern National Monument
Kobuk Valley National Park
Gates of the Arctic National Park
Gates of the Arctic National Preserve
Brooks Range
Arctic NWR
Bering Land Bridge National Preserve
Selawik NWR
Kanuti NWR
Yukon Flats NWR
Koyukuk NWR
Innoko NWR
Nowitna NWR
Denali National Park
Denali National Preserve
DMTS Port
Noatak
Kotzebue
Kiana
Noorvik
Cape Blossom
Selawik
Deering
Buckland
Candle
Buckland
Ambler
Kobuk
Shungnak
Ambler Mining District
Ambler Mineral Belt
Anaktuvuk Pass
Wiseman
Evansville
Bettles
Allakaket
Alatna
Hogatza
Hughes
Huslia
Rampart
Livengood
Tanana
Fairbanks
Council
White Mountain
Nome
Solomon
Golovin (Cheenik)
Elim
Cape Darby
Koyuk
Koyukuk
Nulato
Galena
Ruby
DALTON HIGHWAY
ELLIOTT HIGHWAY
PARKS HIGHWAY
0
45
90 Miles

Previously Considered Corridor Alternatives

- Brooks East
- Cape Blossom
- Cape Darby
- DeLong Mountain Transportation System Port
- Elliott Highway
- Kanuti Flats
- Parks Highway RR
- Selawik Flats
- Alaska Industrial Development and Export Authority Proposed Route to Dalton Highway (Rail)
- Road to Kiana/Barge (Kobuk River) Road Portion
- Road to Kiana/Barge (Kobuk River) Barge Portion
- Communities
- Major Roadways
- Alaska Railroad
- Ambler Mining District[a]
- Ambler Mineral Belt[a]
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

SOURCES:
[a] BLM 2018

Date: 3/3/2020
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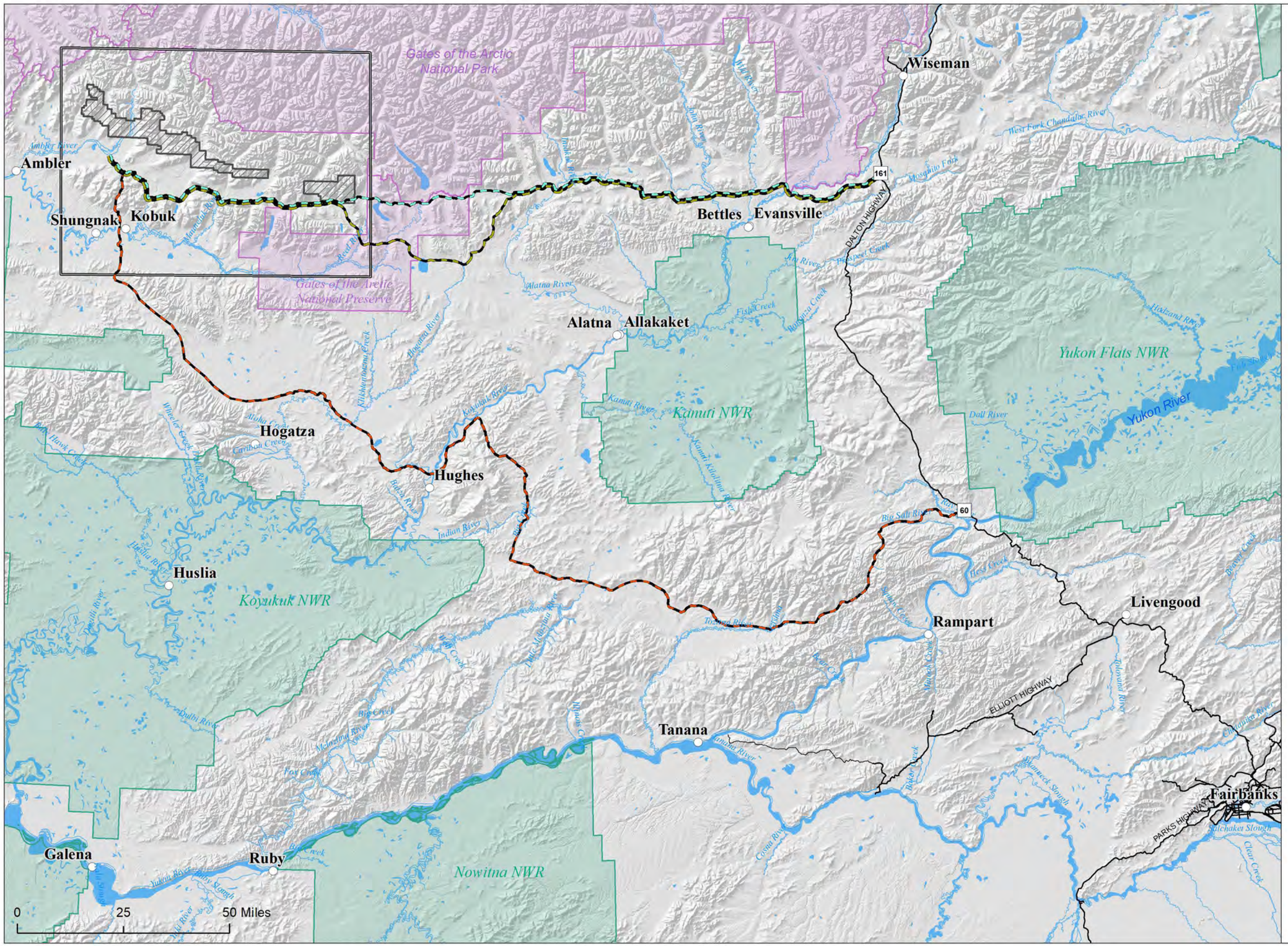
Map 2-1



Alternative A: Alaska Industrial Development and Export Authority Proposed Route (Gates of the Arctic National Park and Preserve North) to the Dalton Highway

Alternative B: Alaska Industrial Development and Export Authority Alternative Route (Gates of the Arctic National Park and Preserve South) to the Dalton Highway

Alternative C: Diagonal Route to the Dalton Highway

Dalton Highway Mile Post

Communities

Ambler Mineral Belt

Ambler Mining District

National Wildlife Refuge Boundary[a]

National Park Service Boundary[a]

SOURCES:
[a] BLM 2018

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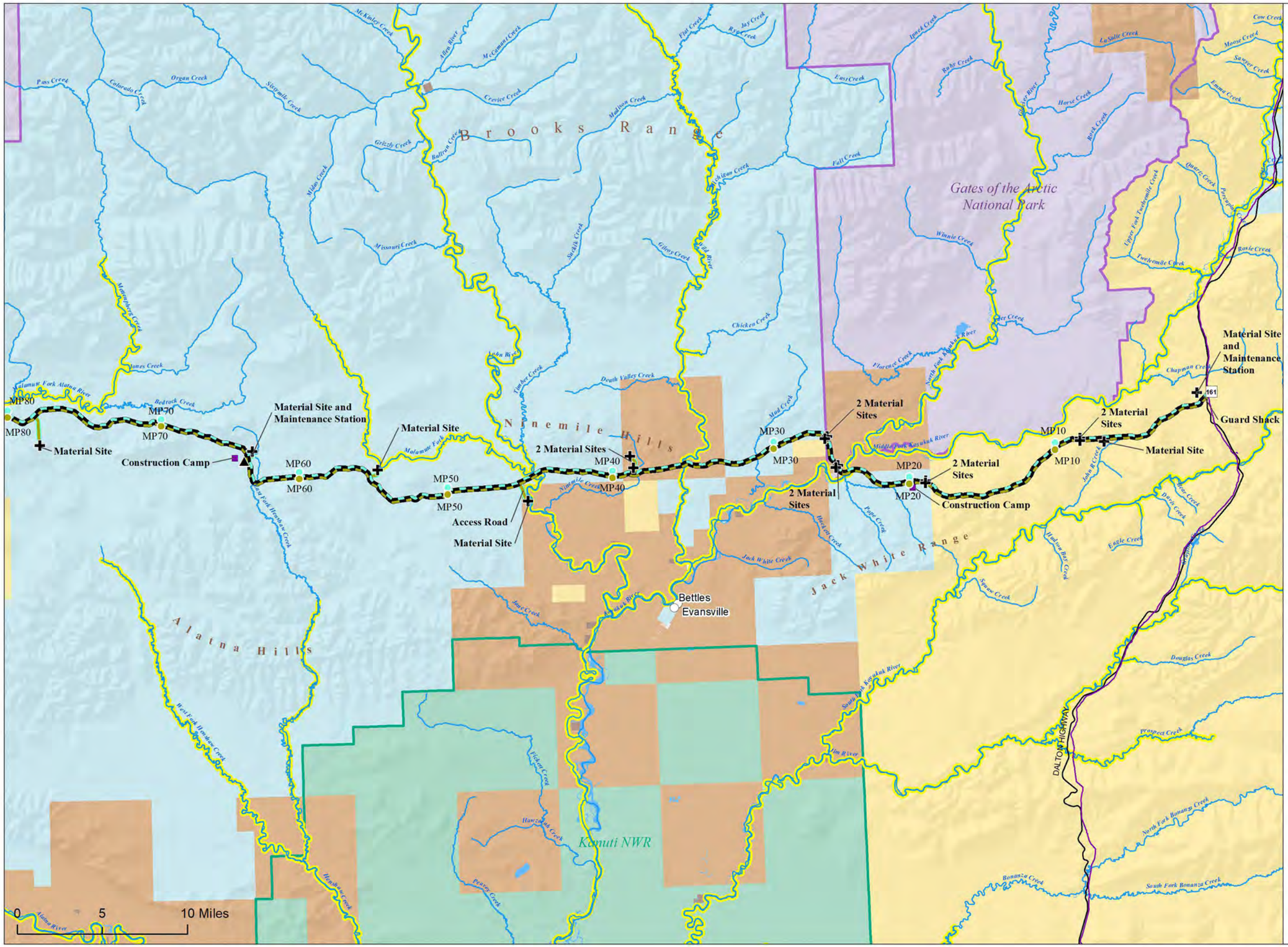
Map 2-2



- Alternative A: AIDEA Proposed Route (GAAR North) to the Dalton Highway
- Alternative B: AIDEA Alternative Route (GAAR South) to the Dalton Highway
- Alternative A Milepoints
- Alternative B Milepoints
- Alternative A and B Material Site
- Alternative A and B Airstrip
- Alternative A and B Access Road
- Alternative A Access Road
- Alternative B Access Road
- Communities
- Dalton Highway Mile Post
- Anadromous Stream[b]

Administered Lands[a]

- Bureau of Land Management
- Alaska Native Lands
- Alaska Native Allotment
- Fish and Wildlife Service
- National Park Service
- Other Federal
- Private
- State
- Water

SOURCES:
[a]BLM 2018
[b]ADFG 2019

Date: 3/3/2020
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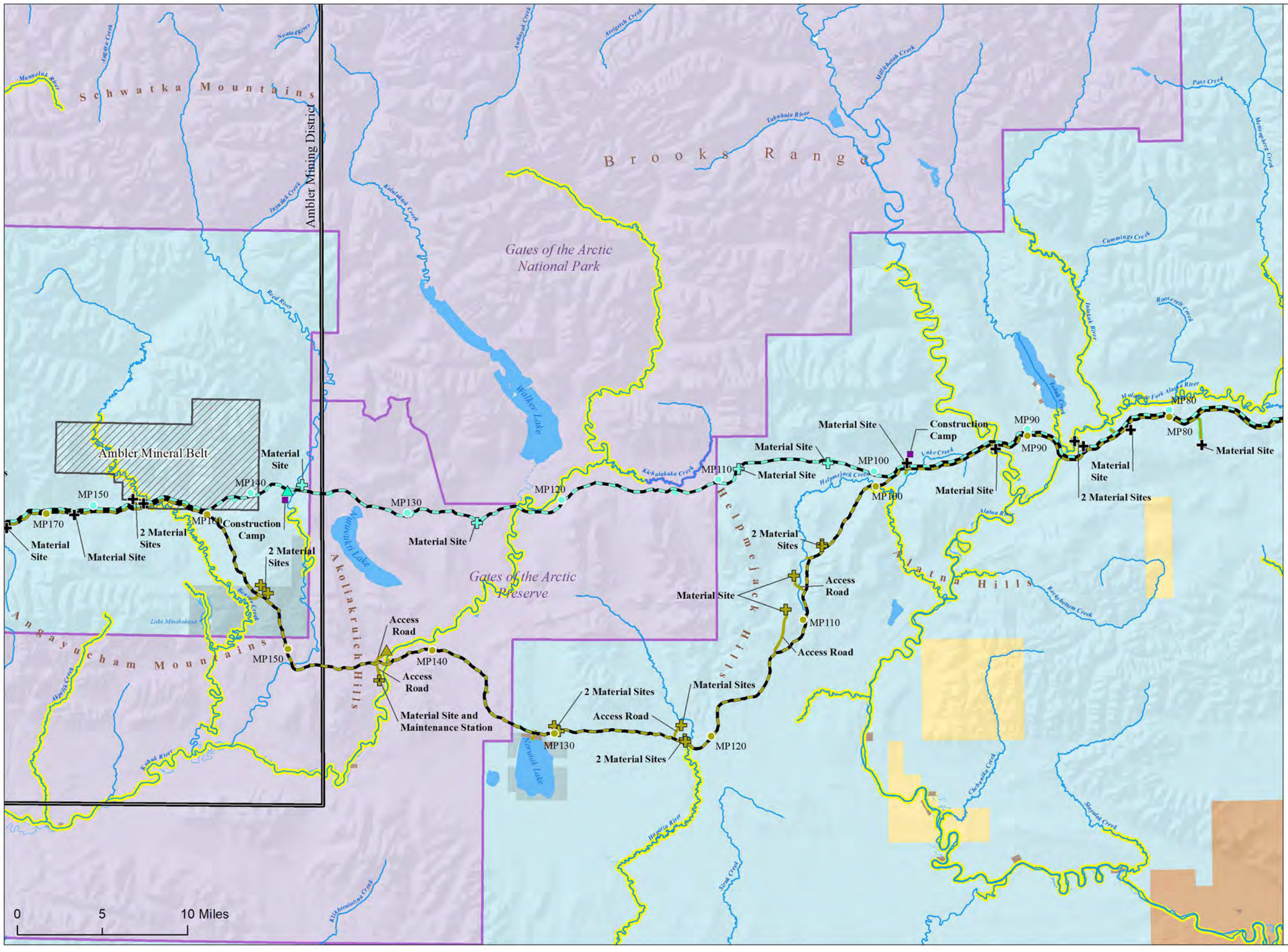
Scale: 1:350,000

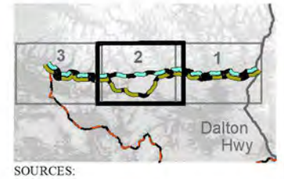
Map 2-3 Page 1



- Alternative A: AIDEA Proposed Route (GAAR North) to the Dalton Highway
- Alternative B: AIDEA Alternative Route (GAAR South) to the Dalton Highway
- Alternative A Milepoints
- Alternative B Milepoints
- Alternative A and B Material Site
- Alternative A Material Site
- Alternative B Material Site
- Alternative A Airstrip
- Alternative B Airstrip
- Alternative A and B Access Road
- Alternative A Access Road
- Alternative B Access Road
- Dalton Highway Mile Post
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Anadromous Stream[b]

Administered Lands[a]

- Bureau of Land Management
- Alaska Native Lands
- Alaska Native Allotment
- Local Government
- National Park Service
- Private
- State
- Water



SOURCES:
[a]BLM 2018
[b]ADFG 2019

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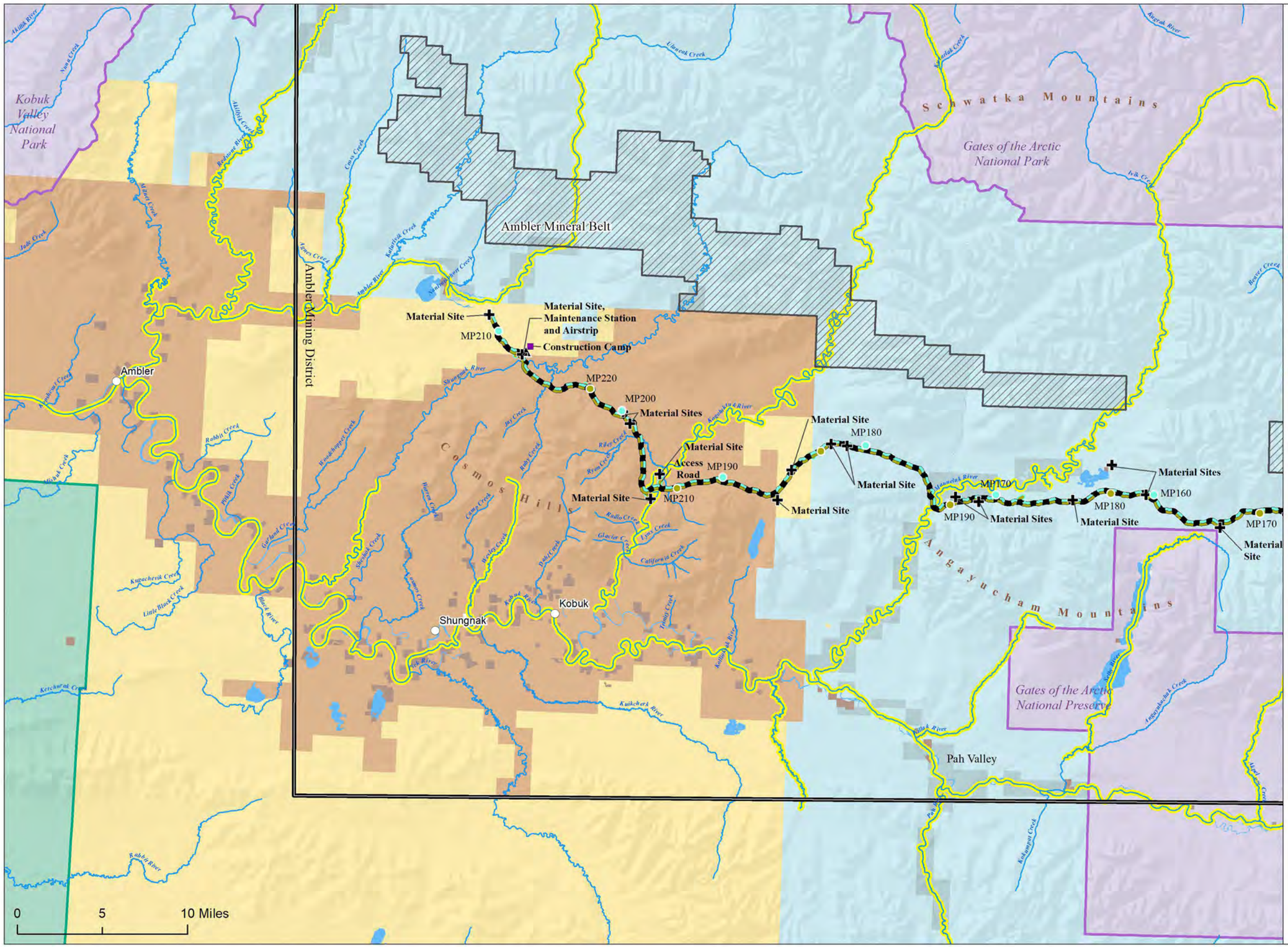
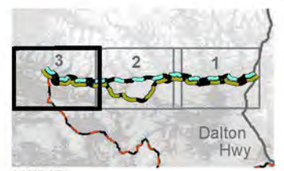
Map 2-3 Page 2



- Alternative A: AIDEA Proposed Route (GAAR North) to the Dalton Highway
- Alternative B: AIDEA Alternative Route (GAAR South) to the Dalton Highway
- Alternative A Milepoints
- Alternative B Milepoints
- Alternative A and B Material Site
- Alternative A and B Airstrip
- Alternative A and B Access Road
- Alternative A Access Road
- Alternative B Access Road
- Communities
- Dalton Highway Mile Post
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Anadromous Stream[b]

Administered Lands[a]

- Bureau of Land Management
- Alaska Native Lands
- Alaska Native Allotment
- Fish and Wildlife Service
- Local Government
- National Park Service
- Private
- State
- Water



SOURCES:
[a]BLM 2018
[b]ADFG 2019

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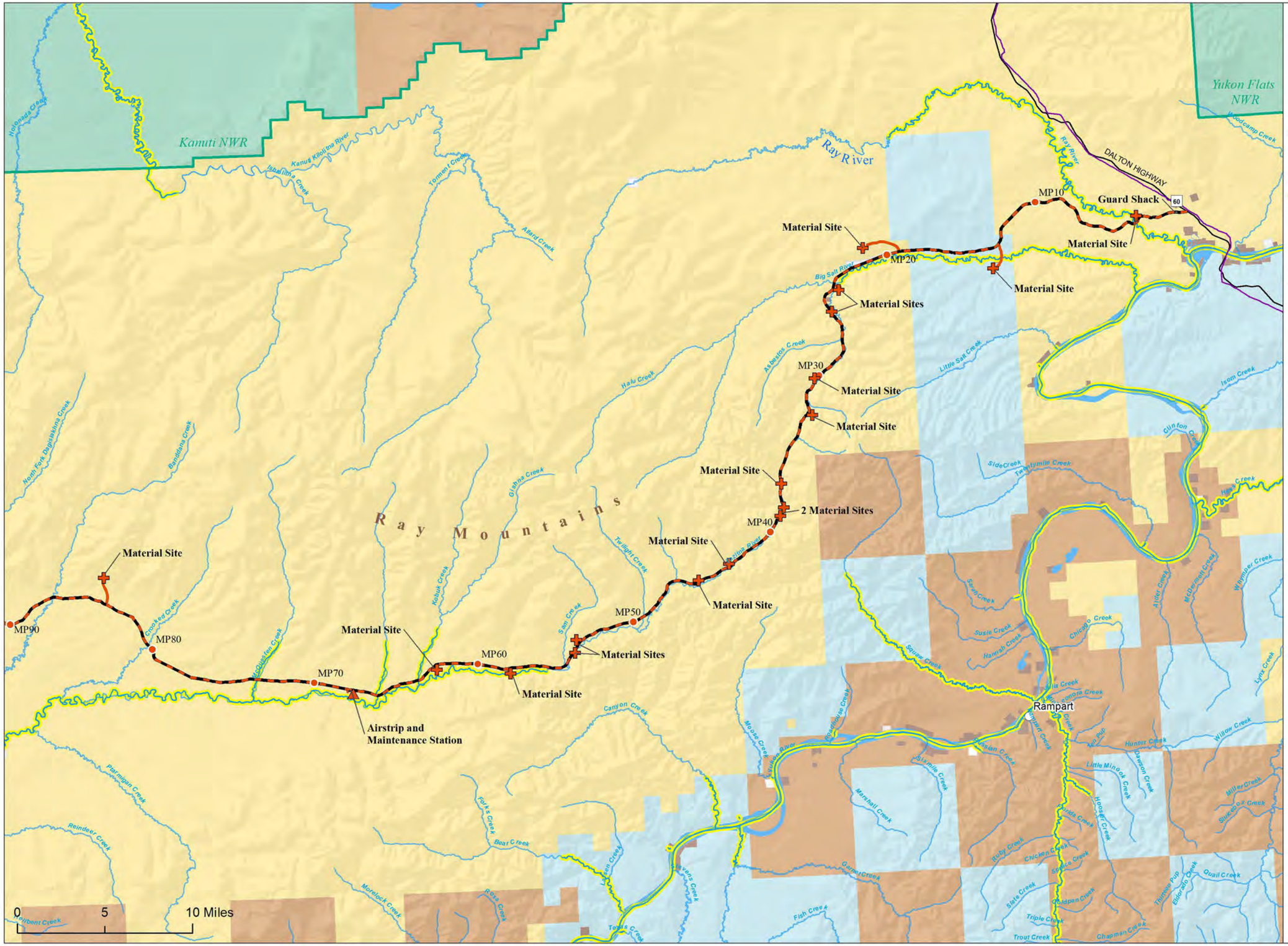
Scale: 1:350,000

Map 2-3 Page 3



- Alternative C: Diagonal Route to the Dalton Highway
- Alternative C Milepoints
- Alternative C Material Site
- Alternative C Airstrip
- Alternative C Access Road
- Communities
- Dalton Highway Mile Post
- Anadromous Stream[b]

Administered Lands[a]

- Bureau of Land Management
- Alaska Native Lands
- Alaska Native Allotment
- Fish and Wildlife Service
- Private
- State
- Water

SOURCES:
[a] BLM 2018
[b] ADFG 2019

Date: 3/3/2020

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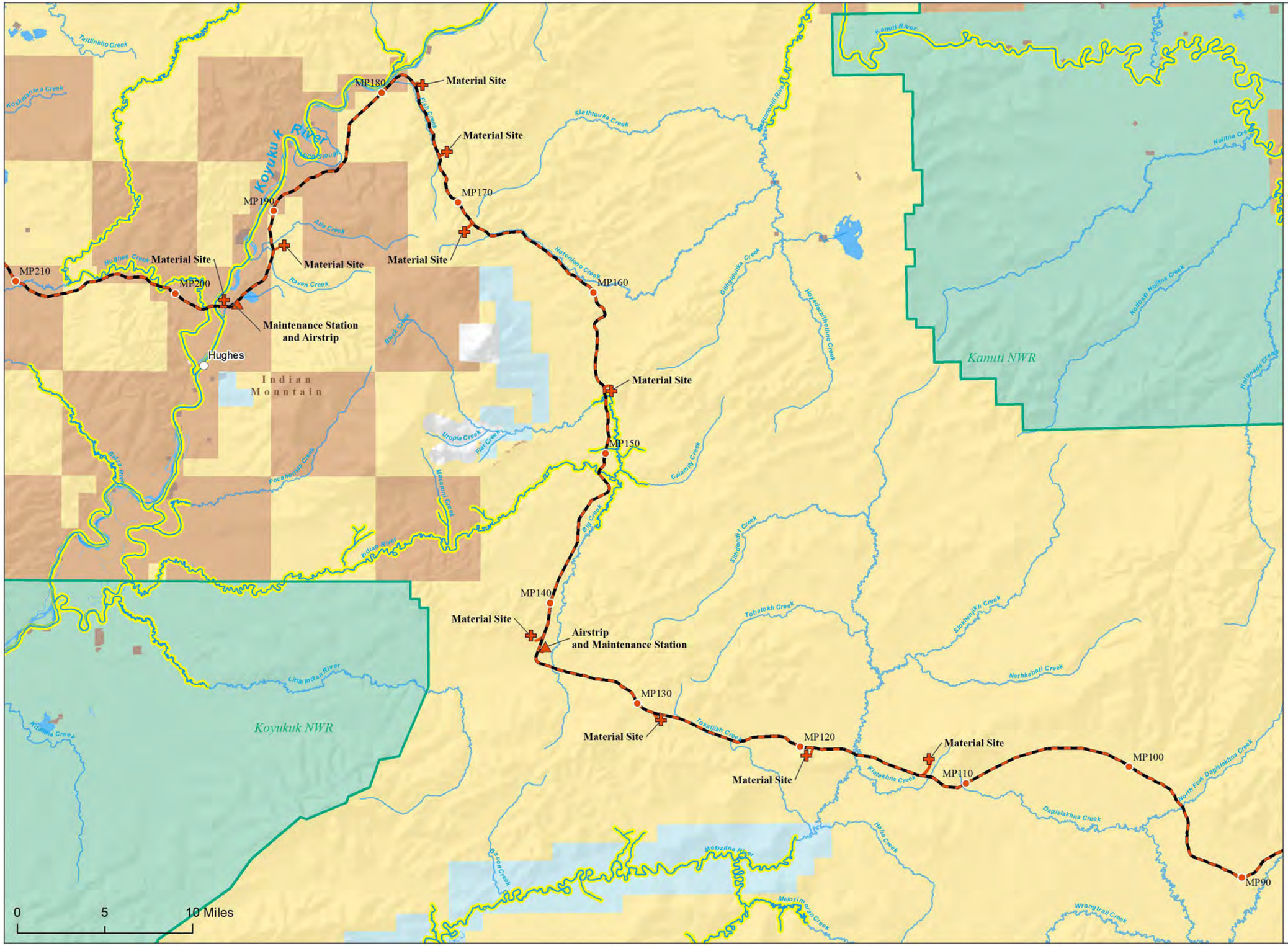
Map 2-4: Page: 1



Alternative C: Diagonal Route to the Dalton Highway

Alternative C Milepoints

Alternative C Material Site

Alternative C Airstrip

Alternative C Access Road

Communities

Dalton Highway Mile Post

Anadromous Stream[b]

Administered Lands[a]

Bureau of Land Management

Alaska Native Lands

Alaska Native Allotment

Fish and Wildlife Service

Local Government

Private

State

Water

SOURCES:
[a] BLM 2018
[b] ADFG 2019

Date: 3/3/2020

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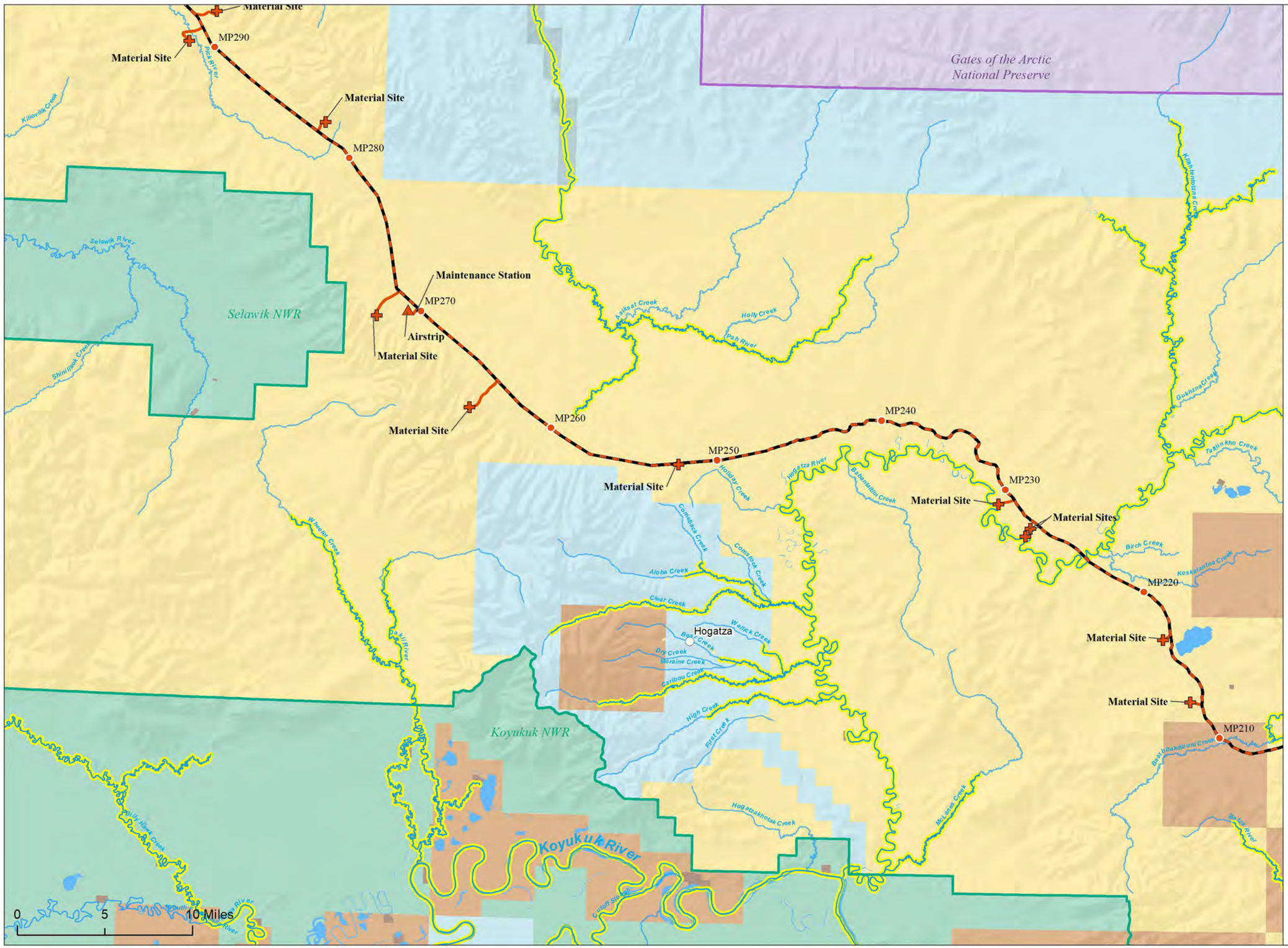

SOURCES:
[a] BLM 2018
[b] ADFG 2019

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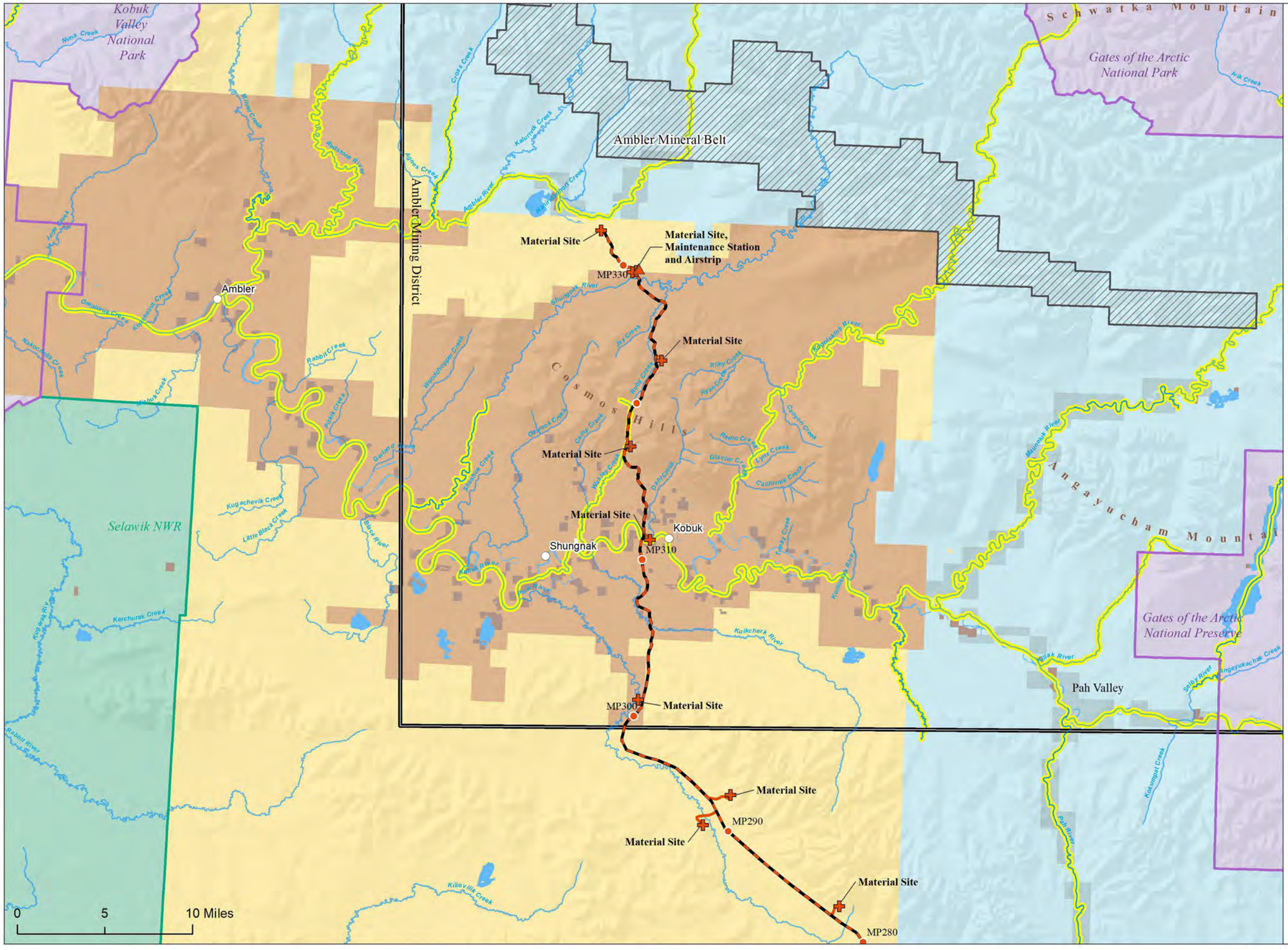

- Alternative C: Diagonal Route to the Dalton Highway
- Alternative C Milepoints
- Alternative C Material Site
- Alternative C Airstrip
- Alternative C Access Road
- Communities
- Dalton Highway Mile Post
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Anadromous Stream[b]

Administered Lands[a]

- Bureau of Land Management
- Alaska Native Lands
- Alaska Native Allotment
- Fish and Wildlife Service
- Local Government
- National Park Service
- Private
- State
- Water

SOURCES:
[a] BLM 2018
[b] ADFG 2019

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Noatak National Preserve
Noatak River
Alatna River
John R.
N. Fork Koyukuk River
Wiseman
Coldfoot
Gates of the Arctic National Park
Walker Lake
Ambler River
Ambler
Shungnak
Kobuk
Kobuk River
Gates of the Arctic National Preserve
161
Evansville
Bettles
Hogatza River
Alatna
Allakaket
Yukon Flats NWR
Selawik River
Selawik NWR
Koyukuk River
Kanuti NWR
Kanuti River
Kanuti-Kilolitna R
DALTON HWY
To Fairbanks
60
Hughes
Huslia
Koyukuk NWR
Rampart
Yukon River
ELLIOTT HWY
0
15
30 Miles

Permafrost[b]

- Lowland and Upland Area underlain by discontinuous permafrost
- Lowland and Upland Area underlain by moderately thick to thin
- Mountainous Area underlain by continuous permafrost
- Mountainous Area underlain by discontinuous permafrost
- Alternative
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] Arctic Landscape Conservation Cooperative, 2014

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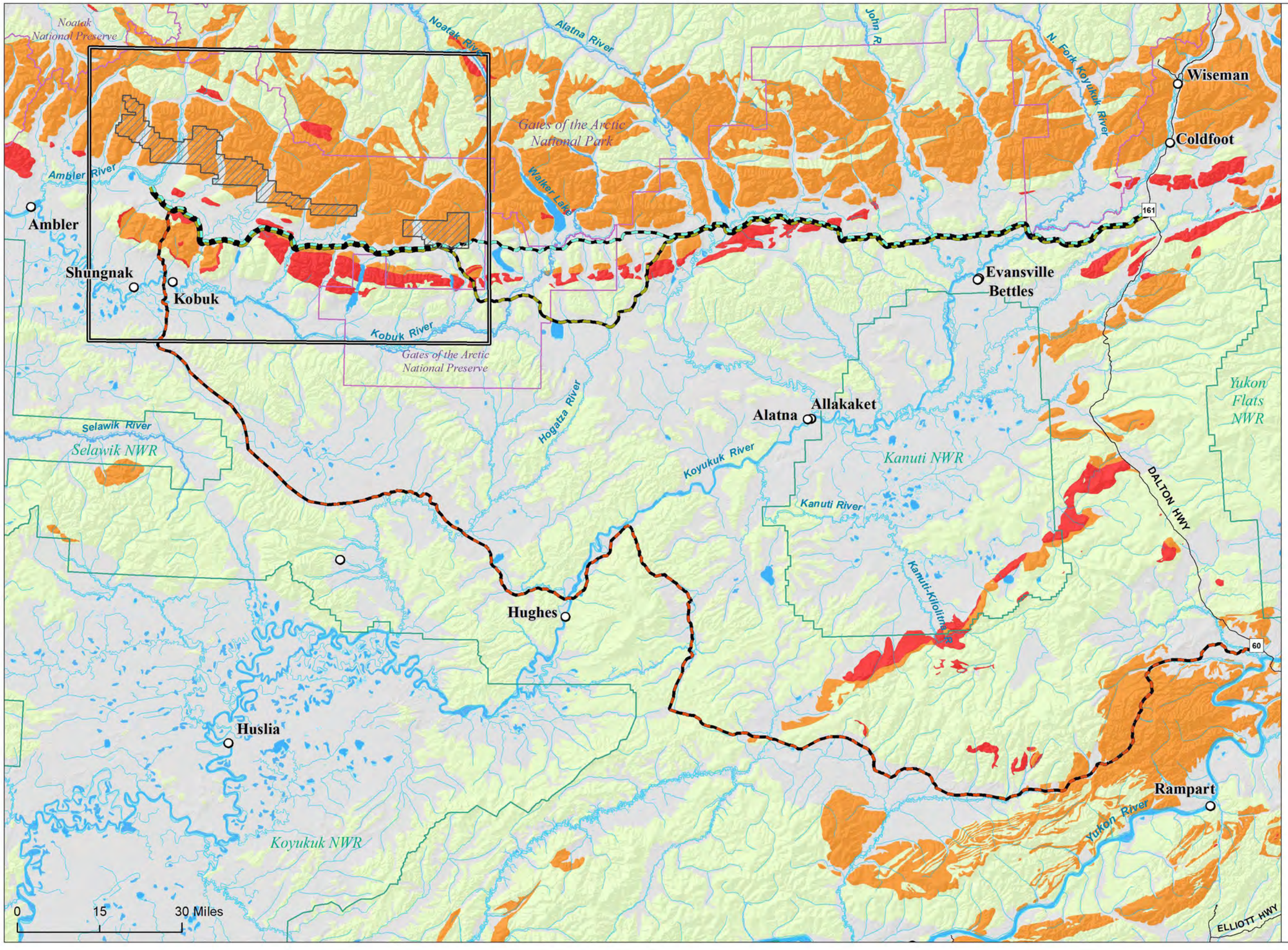
Map 3-01



Asbestos Potential in Alaska[b]

- High to known
- Medium
- Zero to low
- Unknown (Unevaluated Unconsolidated Surficial Deposits)
- Water
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] DNR - Solie, D.N., and Athey, J.E., 2015

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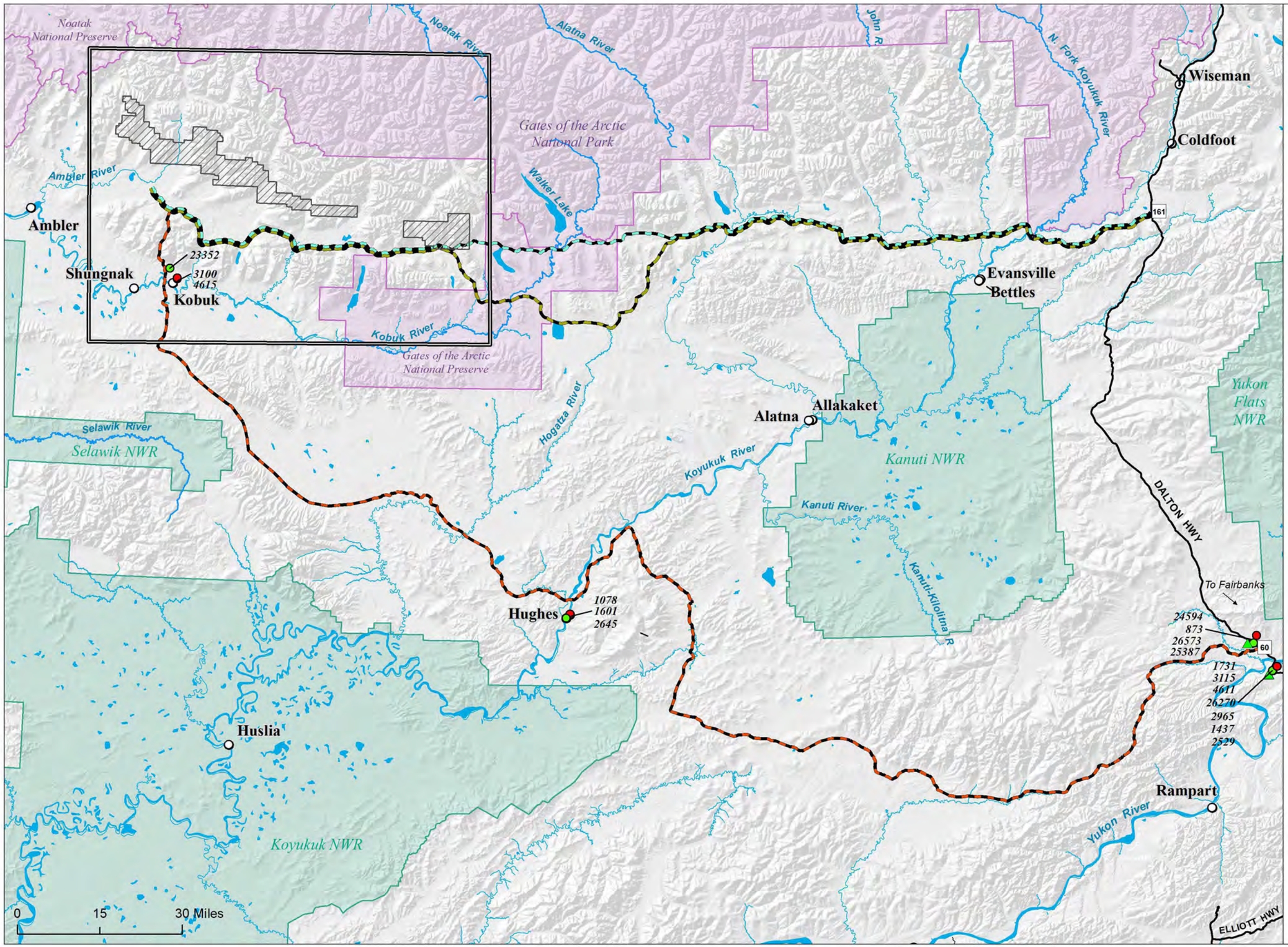
Map 3-02



ADEC Contaminated Site Status[b]

- Active
- Cleanup Complete
- Cleanup Complete - Institutional Controls
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- # Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] Alaska Department of Environmental Conservation 2018.

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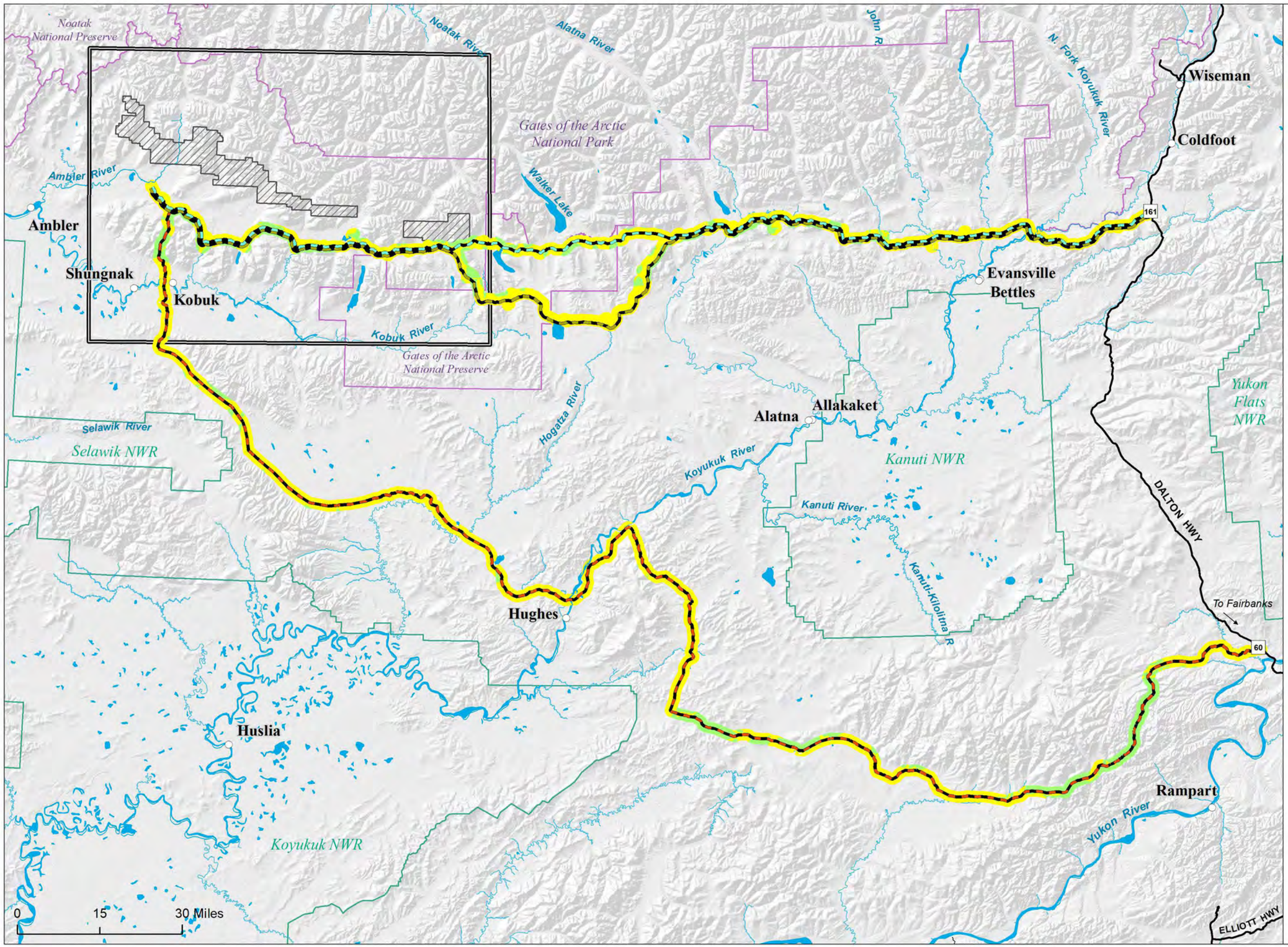
Map 3-03



Potential Fossil Yield Classification*[b]

- 1 - Very Low
- 2 - Low
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

* There is no presence of "High" or "Very High" Potential Fossil Yield in the study area.

Data Source:
[a] BLM 2018
[b] USGS 2018/HDR 2019

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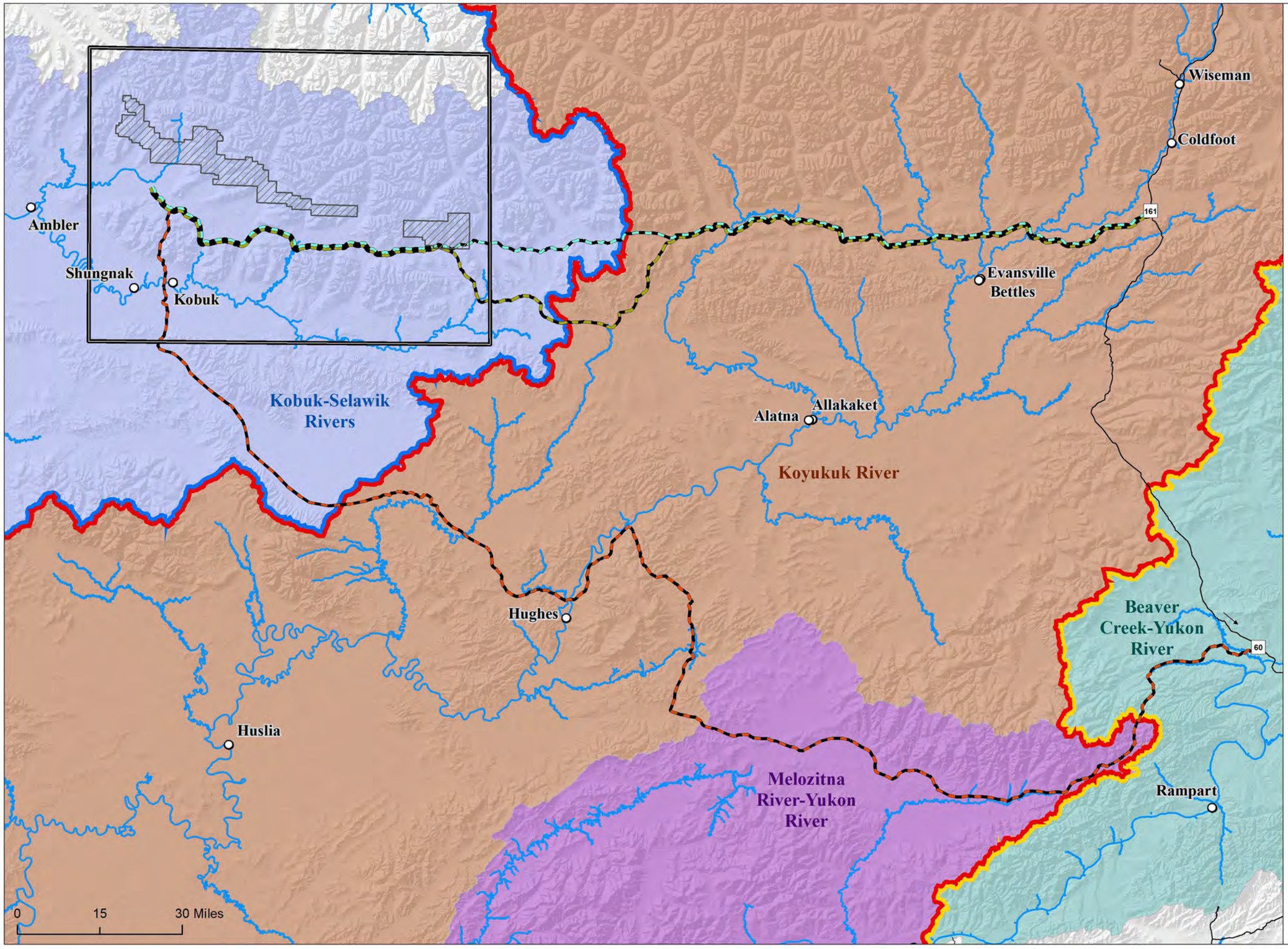
Map 3-04



Basins in study area (HUC4)[c]

- Northwest Alaska
- Lower Yukon River
- Middle Yukon River

Basins in study area (HUC6)[c]

- Beaver Creek-Yukon River
- Kobuk-Selawik Rivers
- Koyukuk River
- Melozitna River-Yukon River
- Waterbody
- Anadromous Stream[b]
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post

Data Source:
[a] BLM 2018
[b] ADFG 2019
[c] U.S. Geological Survey and U.S. Department of Agriculture, Natural Resources Conservation Service 2013.

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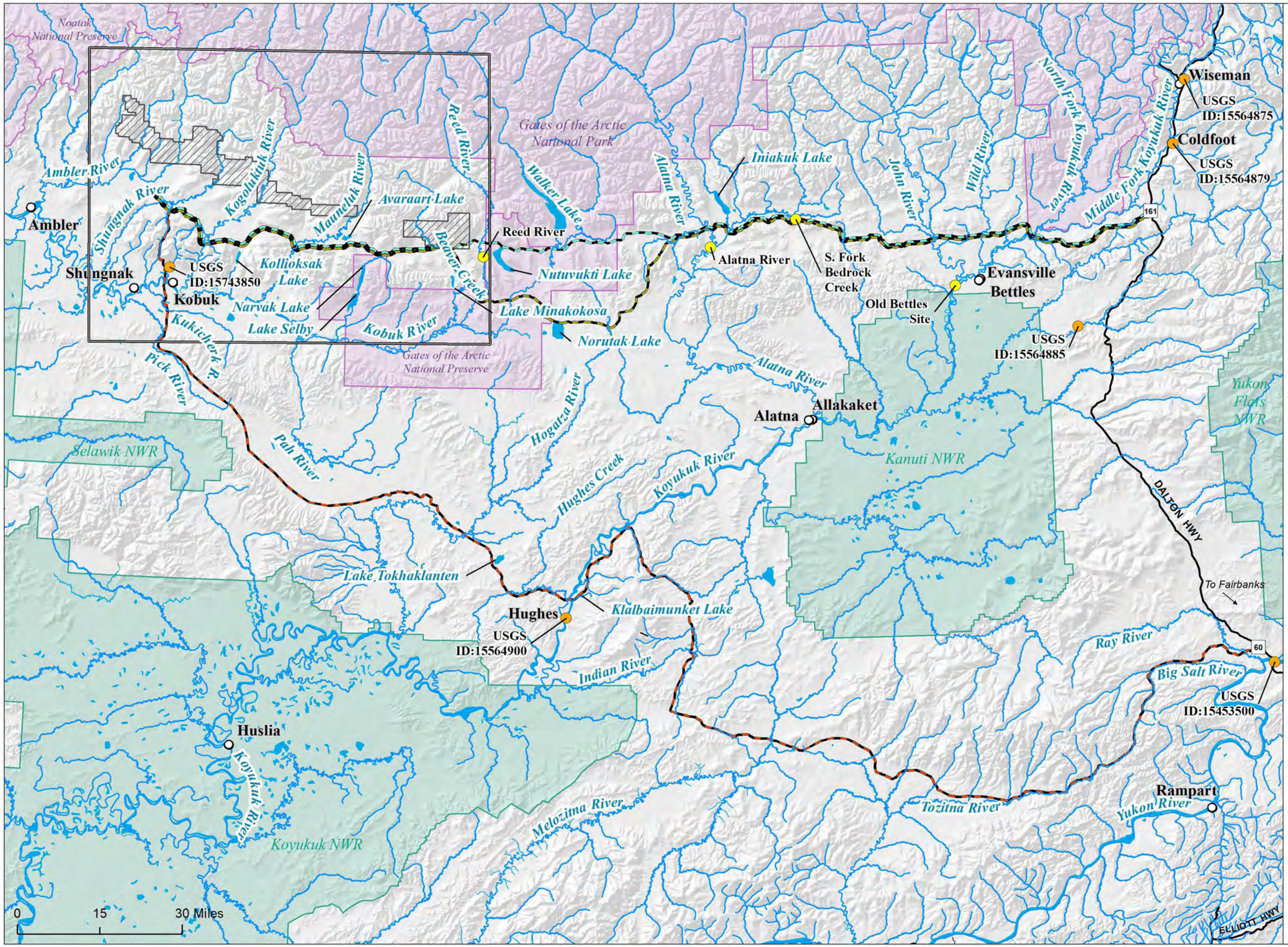
Map 3-05



Data Source:
[a] BLM 2018
[b] NHD 2019
[c] UAF 2017
[d] USGS 2018

Date: 3/3/2020
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Map 3-06

Noatak National Preserve
Gates of the Arctic National Park
Gates of the Arctic National Preserve
Selawik NWR
Koyukuk NWR
Kanuti NWR
Yukon Flats NWR
Ambler
Shungnak
Kobuk
Hughes
Huslia
Alatna
Allakaket
Evansville
Bettles
Wiseman
Coldfoot
Rampart
Ambler River
Mauneluk River
Reed River
Alatna River
Inaluk River
John River
Wild River
North Fork Koyukuk River
Mosquito Fork
Jim River
Prospect Creek
Fish Creek
Bonanza Creek
Hogatza River
Kilkhtentdzna Creek
Koyukuk River
Kanuti River
Clear Creek
Caribou Creek
Wheeler Creek
Indian River
Big Creek
Melozitna River
Little Melozitna River
Bear Creek
Minook Creek
Big Salt River
Yukon River
161
60
DALTON HWY
ELLIOTT HWY
0 15 30 Miles

Alaska Ecoregions[b]

- Brooks Range
- Kobuk Ridges and Valleys
- Nulato Hills
- Ray Mountains
- Yukon River Lowlands
- Yukon-Old Crow Basin

- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] USGS 2019

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Map 3-07

Noatak River
Alatna River
John R.
N. Fork Koyukuk River
Wiseman
Coldfoot
Ambler River
Walker Lake
161
Ambler
Shungnak
Kobuk
Kobuk River
Evansville
Bettles
Selawik River
Hogatza River
Alatna
Allakaket
Koyukuk River
Kanuti River
DALTON HWY
Kanuti-Kilolitna R
Hughes
60
Huslia
No vegetation data available
Rampart
Yukon River
ELLIOTT HWY
0
15
30 Miles

Vegetation Type[b]

- Upland Mesic Spruce Hardwood Forest
- Upland Mesic Spruce Forest
- Upland Low Tall Shrub Tundra
- Lowland Woody Wetland
- Floodplain Forest Shrub
- Alpine Dwarf Shrub Tundra
- Alpine Arctic Tussock Tundra
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post

Data Source:
[a] BLM 2018
[b] BLM Central Yukon RMP 2013

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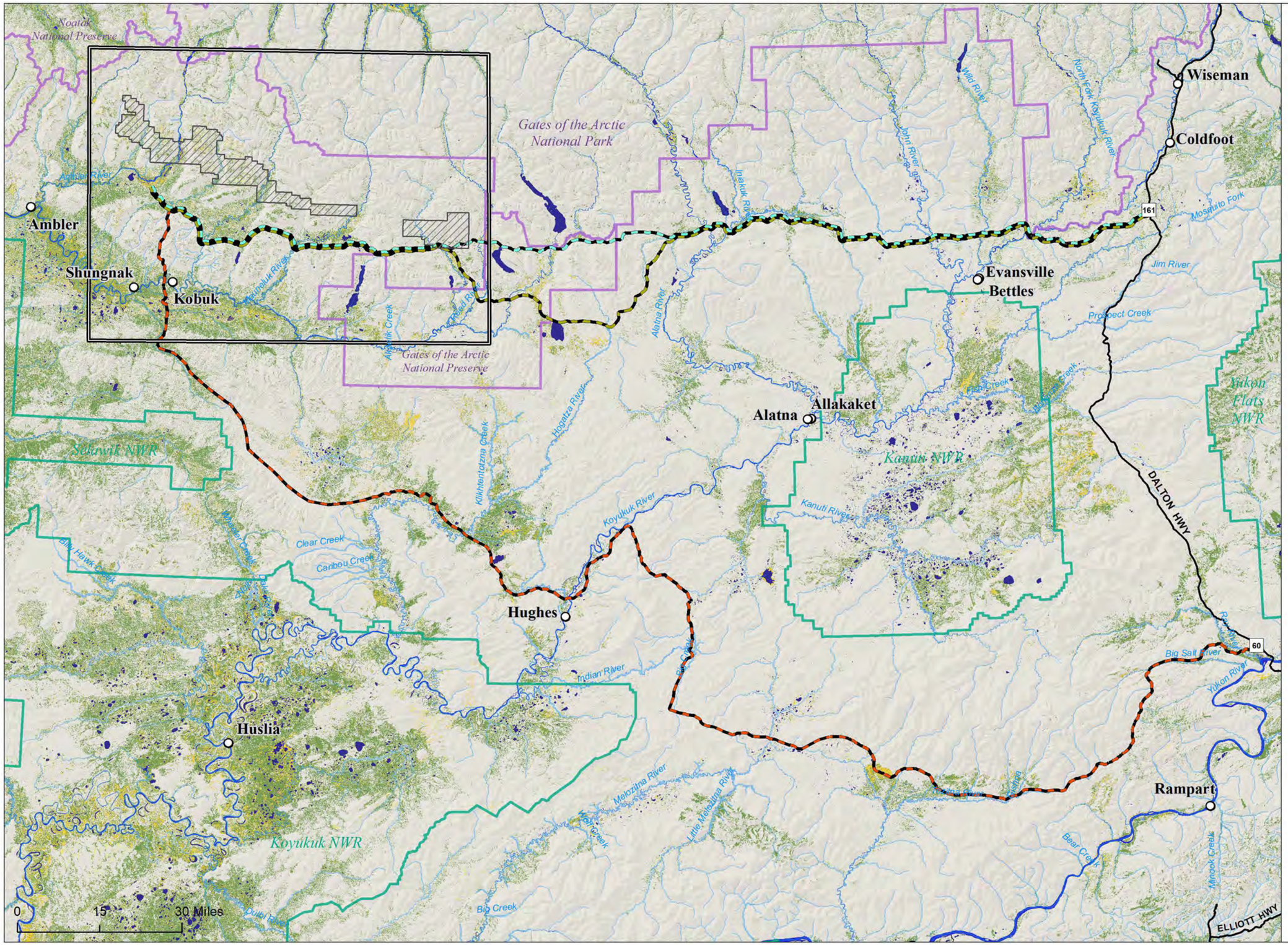
Map 3-08



Wetland Type[b]

- Estuarine and Marine Deepwater
- Freshwater Bryophyte
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine
- Upland
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt
- Ambler Mining District
- Community
- # Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] ACCS 2019

Date: 3/3/2020
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Map 3-09A

Nutuvukti Fen

Reed River

Hogatza River

Alatna River

0 3.5 7 Miles

Wetland Type[b]

- Freshwater Bryophyte
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine
- Upland
- Alternative A
- Alternative B
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- # Dalton Highway Mile Post
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] ACCS 2019

Date: 3/16/2020
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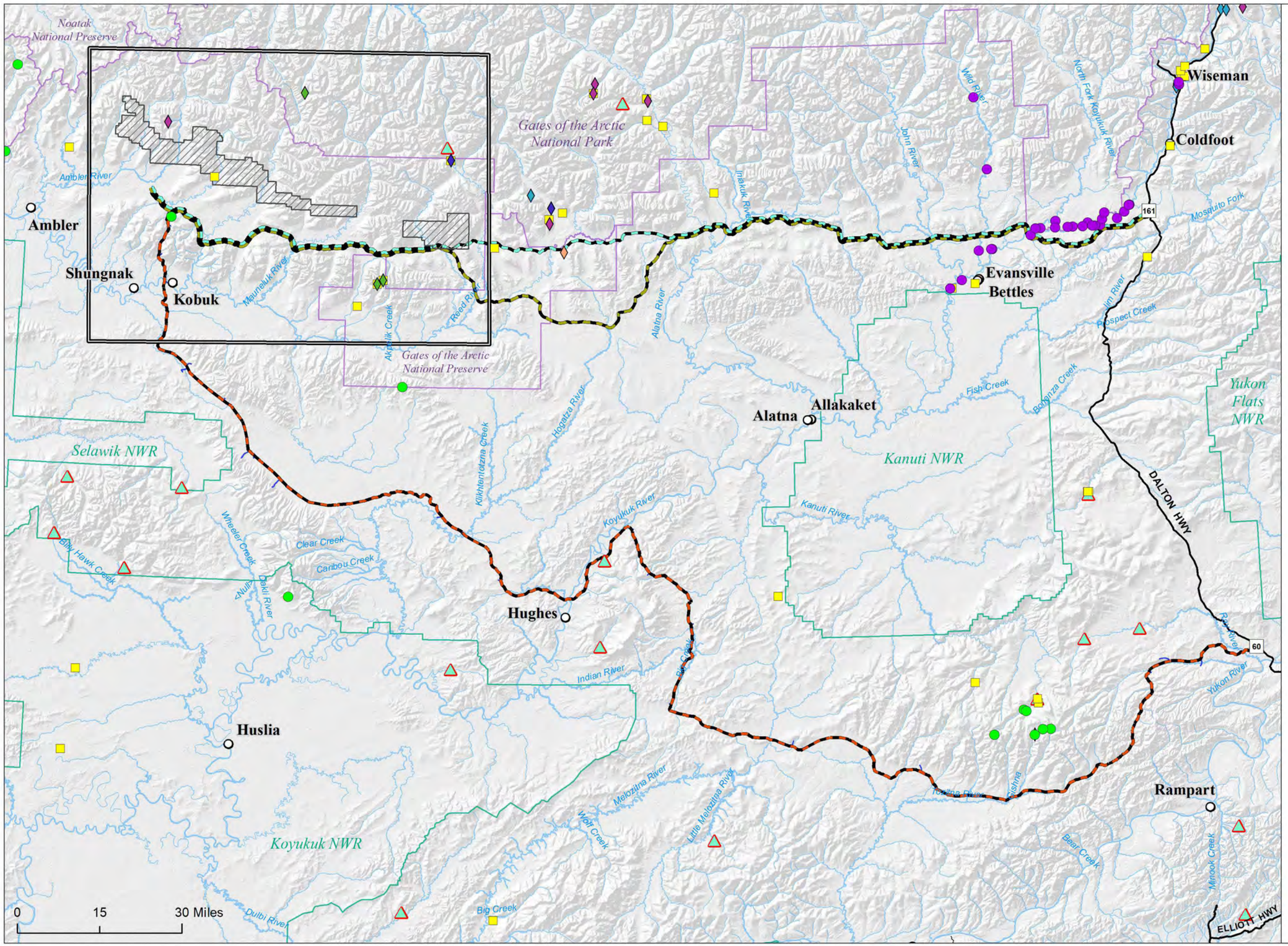
Map 3-09B



BLM Sensitive Plant Species[a]

- Kokrine's Locoweed
- Yukon Aster

BLM Plant Watch List[a]

- Alaska Moonwort
- Glacier Buttercup
- Longstem Sandwort
- Northern Sedge
- Small-leaf Bittercress
- Yellow Lady's Slipper
- Non-BLM Listed Rare Plant Species[a]

Other Ecosystems

- Geothermal Springs[b]
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] Alaska Native Heritage Program, Alaska Center for Conservation Science, University of Alaska Anchorage February 2019

Date: 3/3/2020
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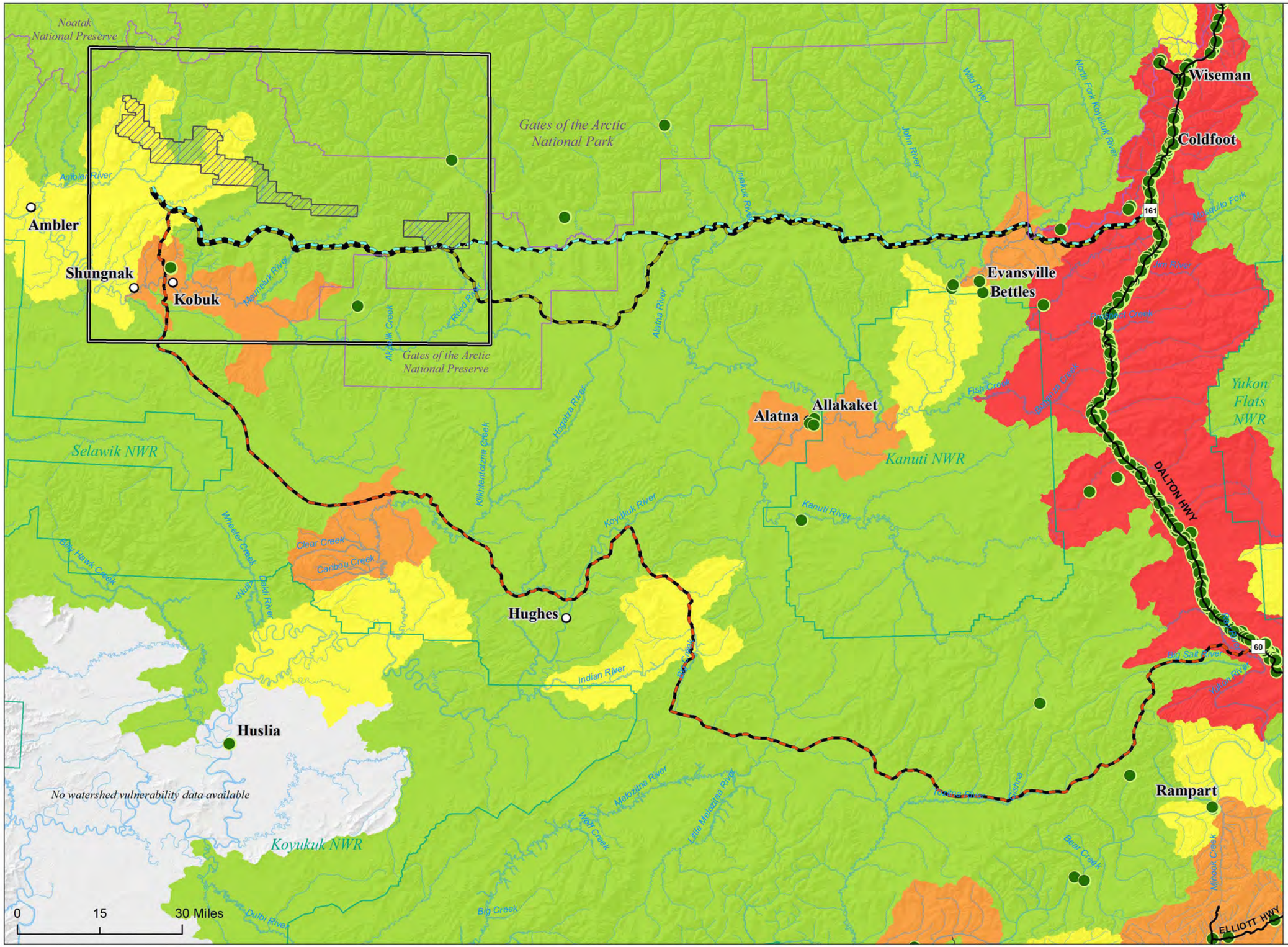
Map 3-10



- Invasive Plant Species[c]

Existing Conditions: Watershed Vulnerability to Invasive Plant Species - 2016 Data[b]

- High Infestation Vulnerability
- Potentially High Infestation Vulnerability
- Moderate Infestation Vulnerability
- Low Infestation Vulnerability
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] BLM 2016
[c] Alaska Exotic Plant Information Clearinghouse database. 2019

Date: 3/3/2020
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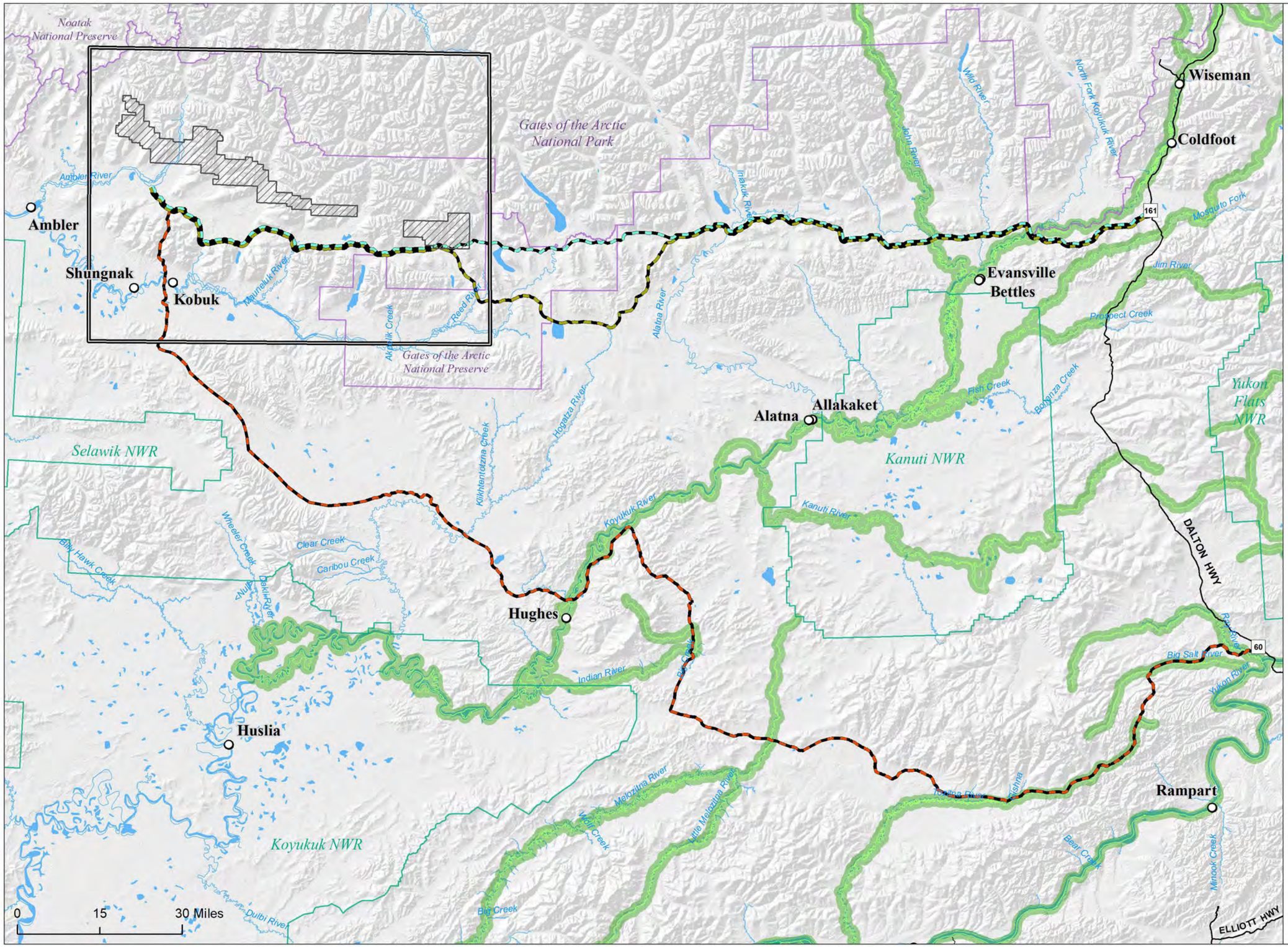
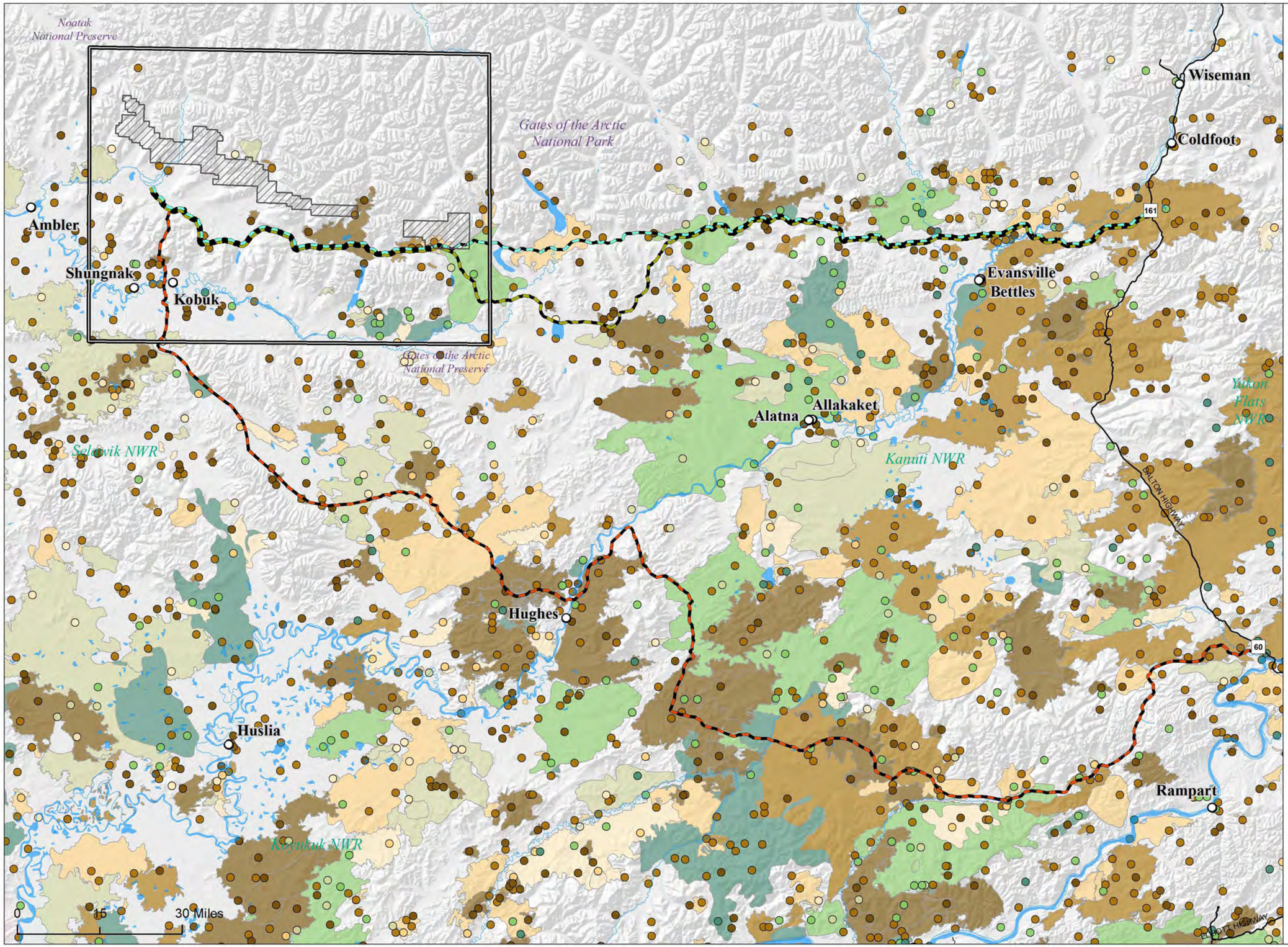
Map 3-11



Data Source:
[a] BLM 2018
[b] BLM, Central Yukon RMP, 2013

Date: 3/3/2020
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed through digital means and may be updated without notification.

Map 3-12



Fire History Perimeters[b]

- 2010 - 2018
- 2000 - 2009
- 1990 - 1999
- 1980 - 1989
- 1970 - 1979
- 1960 - 1969
- 1940 - 1959
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- # Dalton Highway Mile Post

Data Source:
[a] BLM 2018
[b] BLM 2019

Date: 3/3/2020
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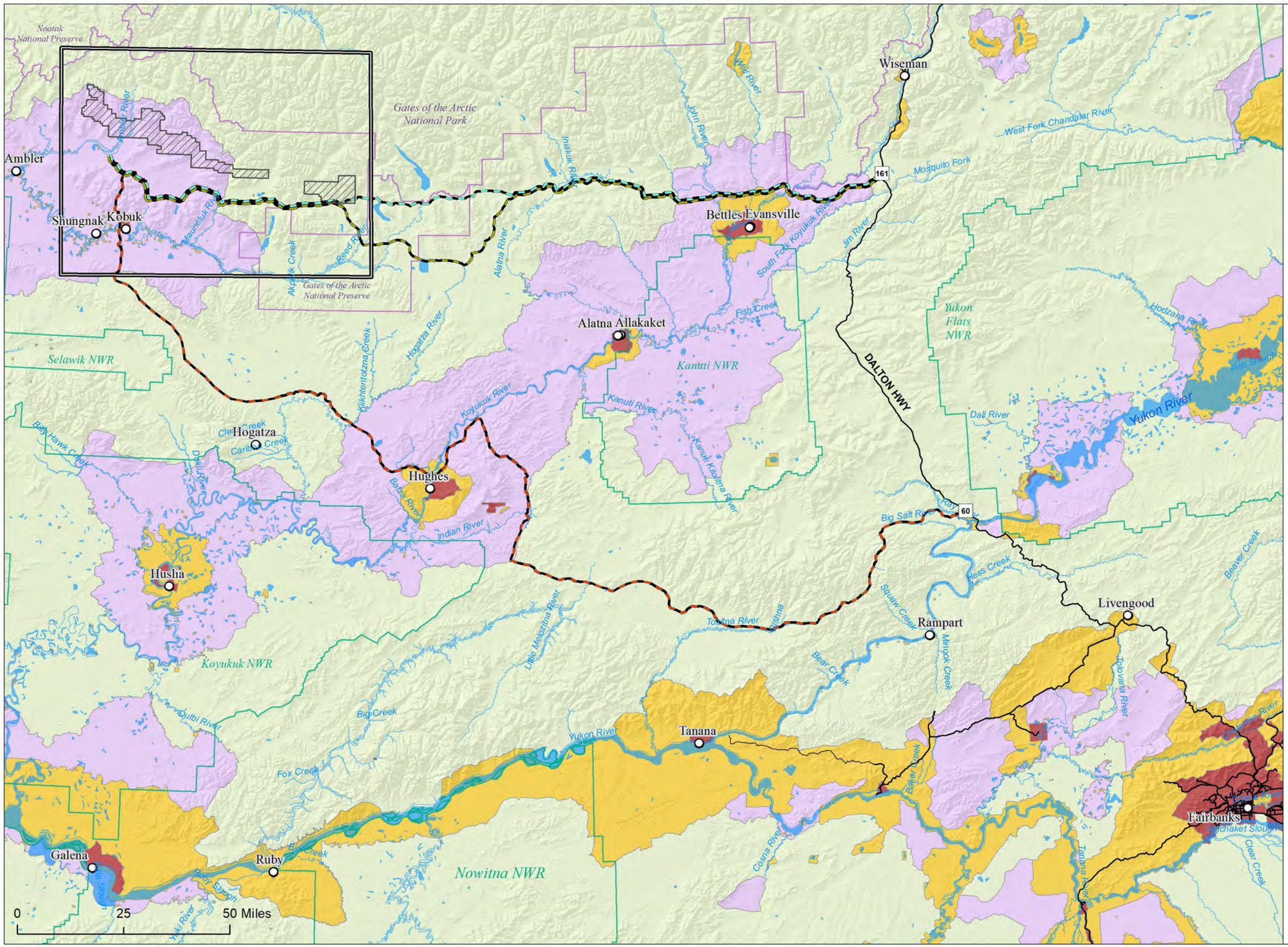
Map 3-13



Fire Management Options[b]

- Critical
- Full
- Modified
- Limited
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- # Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] BLM 2019

Date: 3/3/2020
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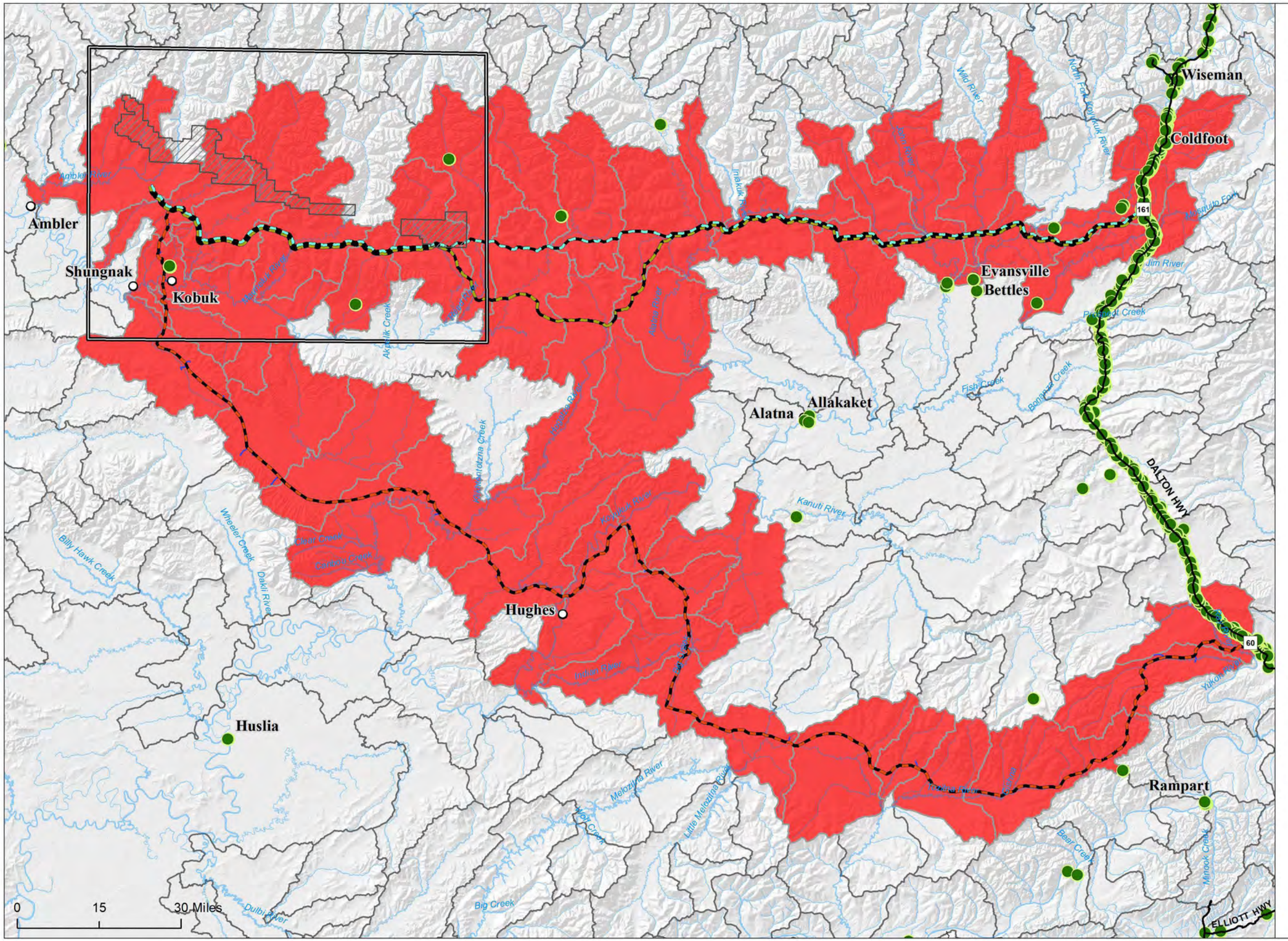
Map 3-14



Data Source:
[a] BLM 2018
[b] BLM 2019
[c] Alaska Exotic Plant Information Clearinghouse database 2019

Date: 3/3/2020
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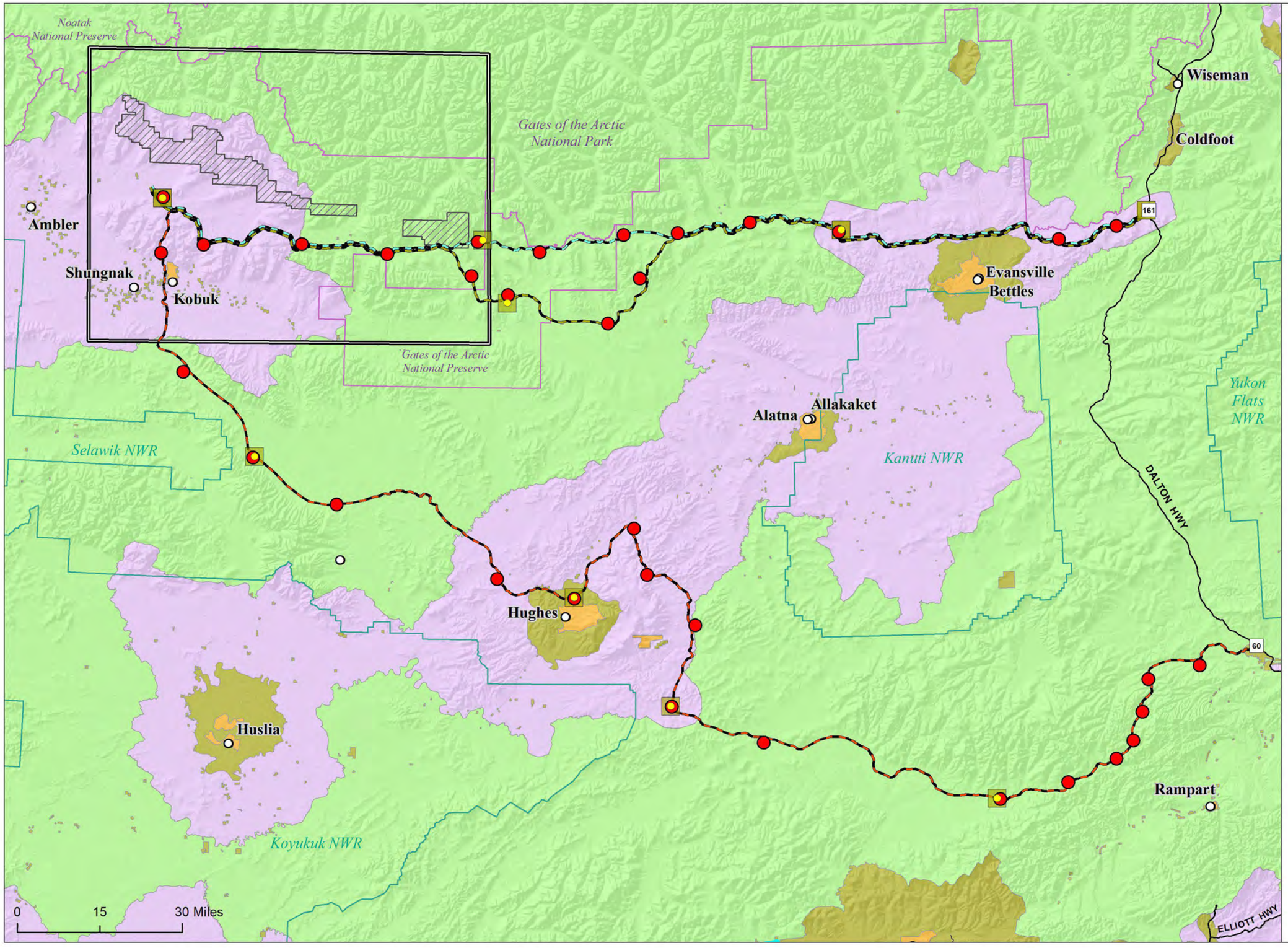
Map 3-15



Approximate Tower Location - Site Location will require full protection, but not the land surrounding it.[c]

Approximate Maintenance Station Location - area surrounding each site will need to have full protection as shown.[c]

Likely Fire Management Options Updates[b]

- Critical
- Full
- Modified
- Limited
- Alternative A
- Alternative B
- Alternative C
- Community
- Dalton Highway Mile Post
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] BLM 2019
[c] AIDEA 2019

Date: 3/10/2020
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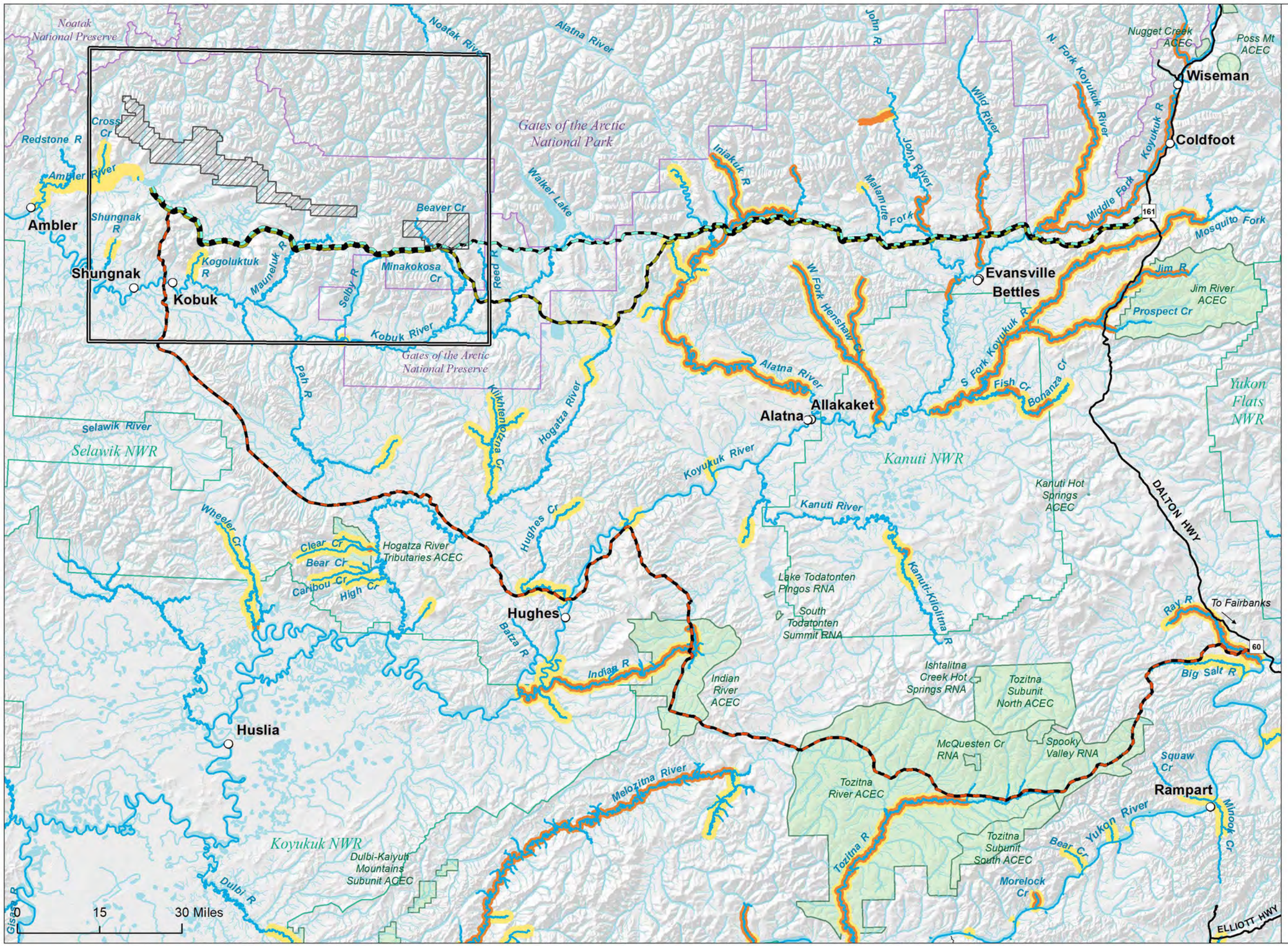
Map 3-16



- Salmon Habitat (EFH)[a,b]
- Documented Chinook Salmon Spawning Habitat[c]
- Documented Chum Salmon Spawning Habitat[c]
- Areas of Critical Environmental Concern
- Other Stream
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[d]
- Ambler Mining District[d]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[d]
- National Park Service Boundary[d]

Data Source:
[a] Johnson and Blossom 2019a
[b] Johnson and Blossom 2019b
[c] BLM 2013
[d] BLM 2018

Date: 3/3/2020
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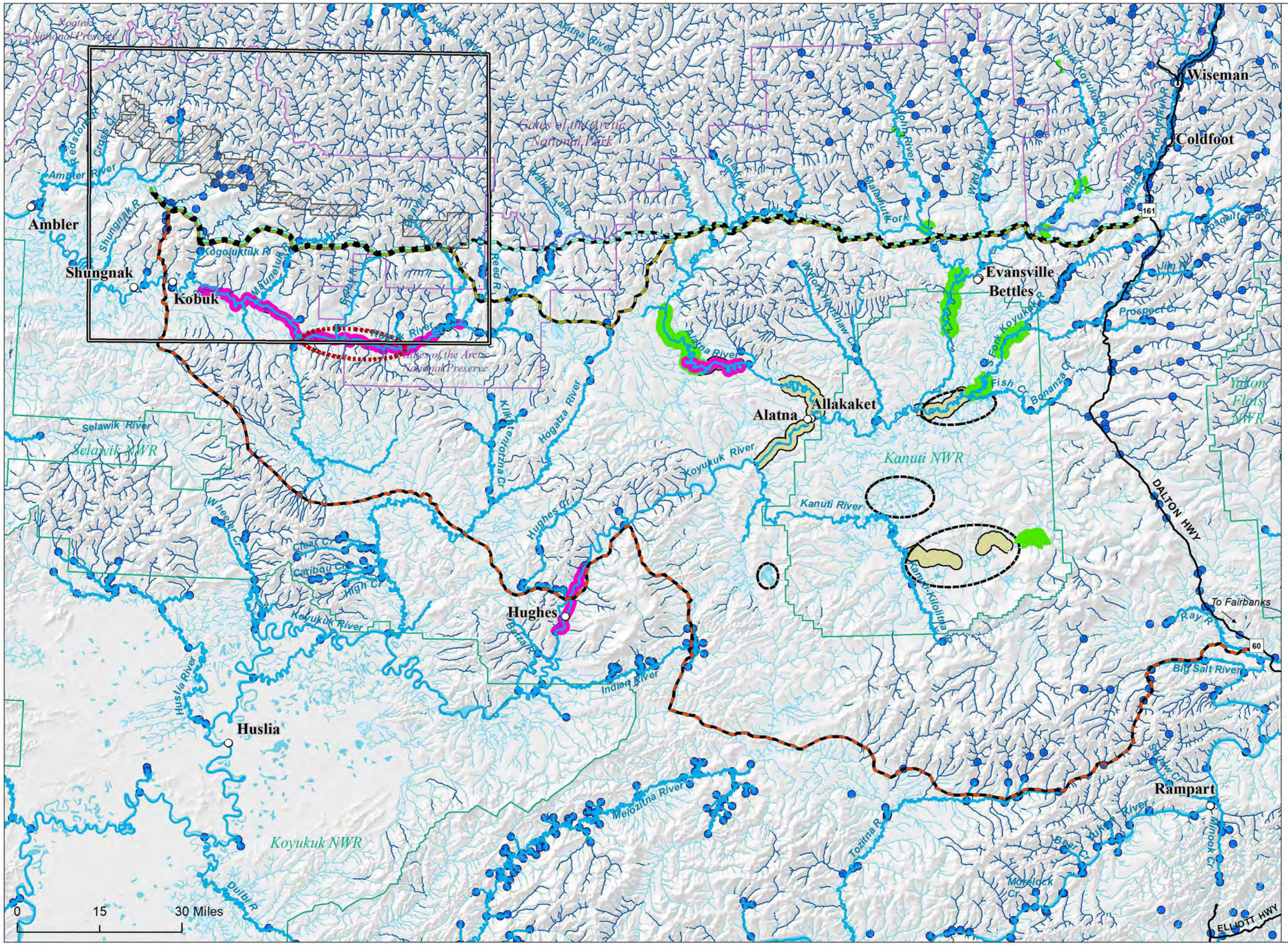
Map 3-17



- Sheefish Spawning Habitat[b,k]
- Major Whitefish Spawning Area[e,l]
- Major Whitefish Overwintering[e]
- Sheefish Concentrated Spawning Area[e]
- Lake and Oxbow Feeding Habitat[e]
- Anadromous Stream[g,i,j,k,l]
- Dolly Varden Resident Habitat[b]
- Other Stream[b]
- Additional fish presence confirmed[a,k,l]
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt
- Ambler Mining District
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary
- National Park Service Boundary

Data Source:
[a]AFFI 2018
[b]BLM 2013
[c]BLM 2017
[d]Bradley 2018
[e]Brown 2009
[f]Clawson 2019
[g]Geifer 2019
[h]HDR 2019
[i]Johnson and Blossom 2019a
[j]Johnson and Blossom 2019b
[k]Savereide et al. 2015
[l]Wuttig et al. 2015

Date: 3/3/2020

Note: Streams are highlighted to display important known spawning and overwintering areas and are not representative of actual stream width or habitat available at those locations.

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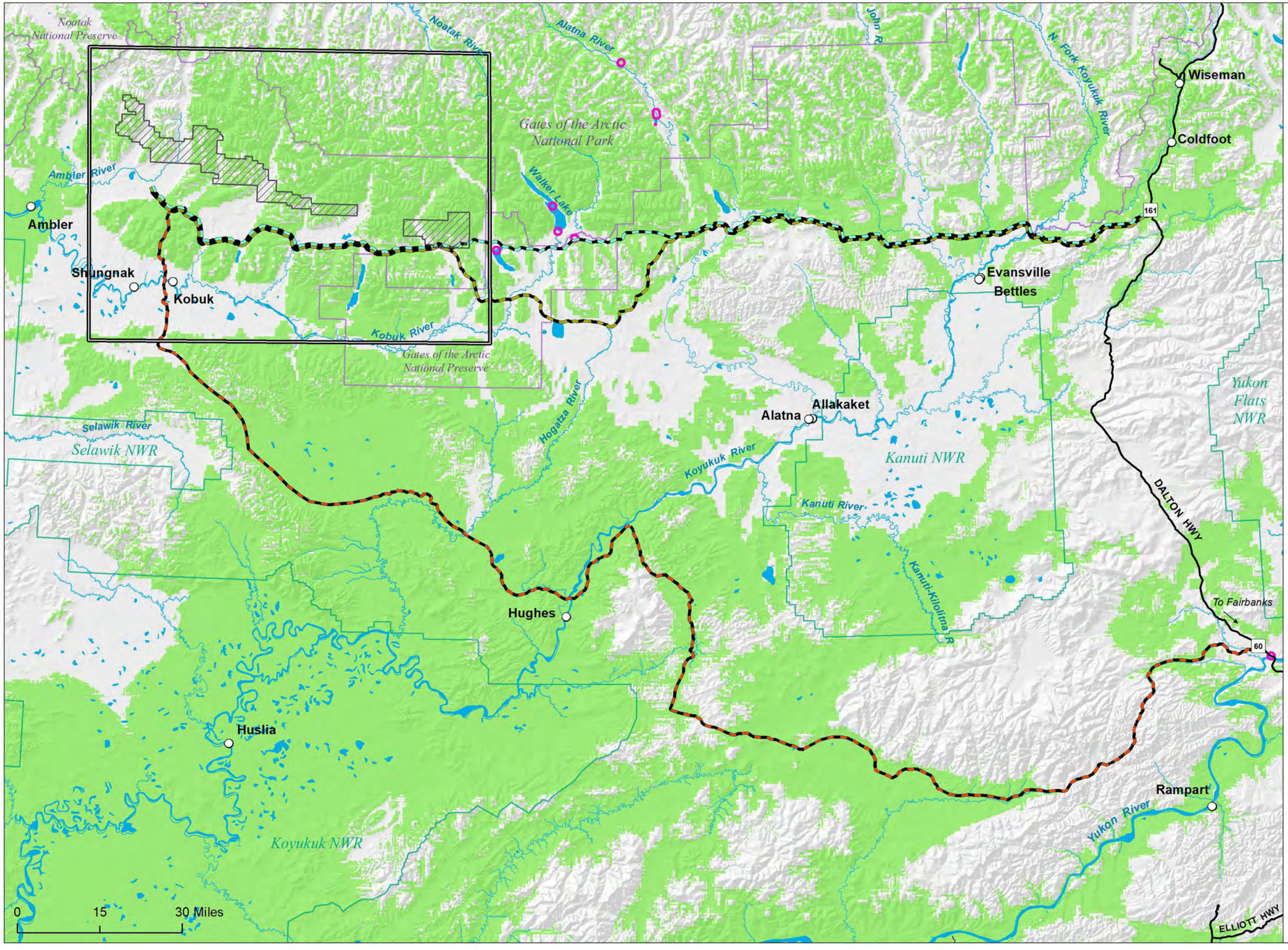
Map 3-18



- Wood Frog Observations[b]
- Potential Wood Frog Distribution[b]
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] UAA 2019

Date: 3/3/2020
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Map 3-19

Data Source:
[a] BLM 2018
[b] ADFG 2017

Date: 3/3/2020
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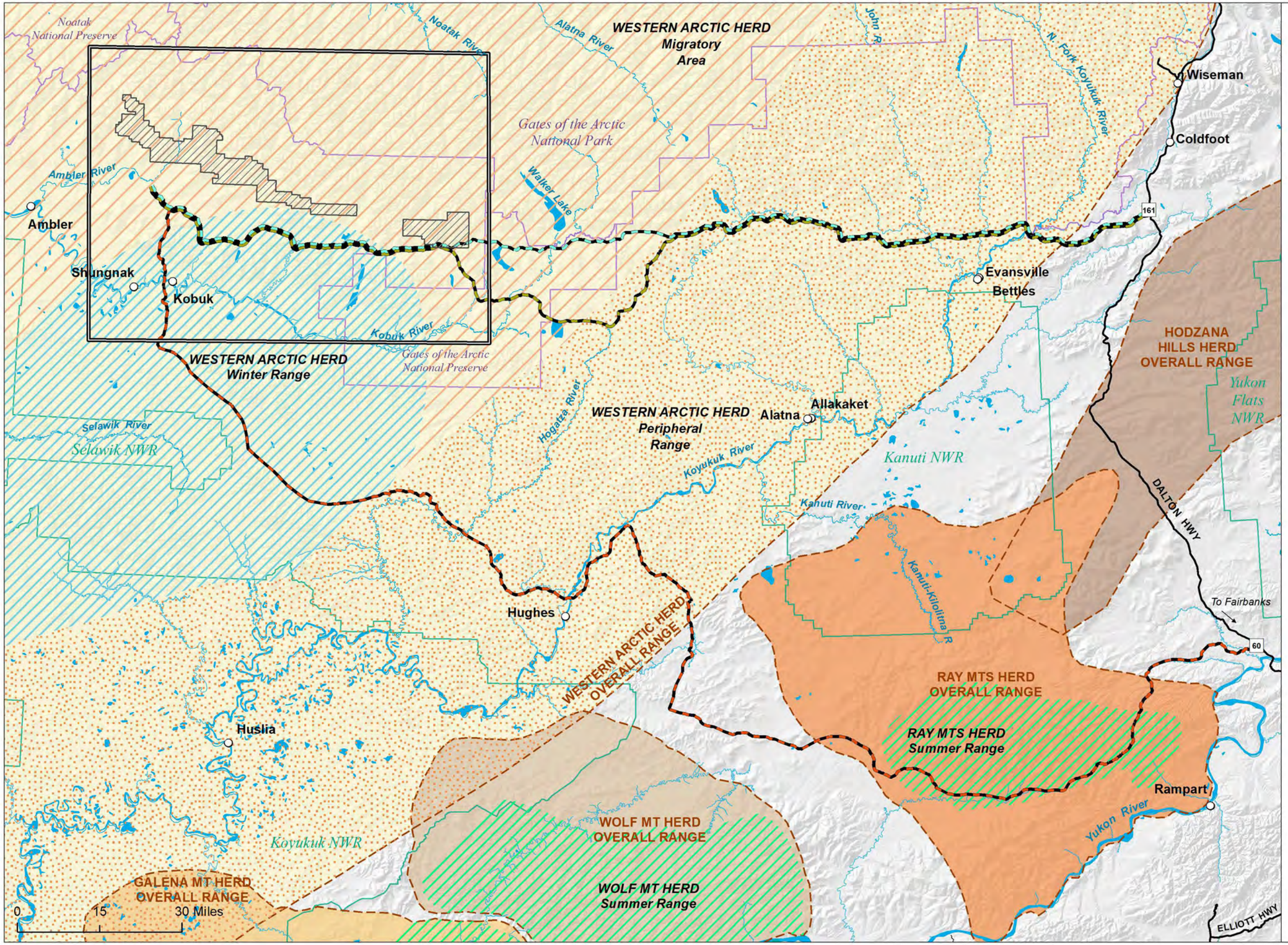
Map 3-20



Caribou Seasonal Ranges[b]

- Galena Mountain Herd
- Ray Mountains Herd
- Wolf Mountain Herd
- Hodzana Hills Herd
- Western Arctic Herd
- Winter Range
- Migratory Area
- Peripheral Range
- Summer Range
- Total Range
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]

Data Source:
[a] BLM 2018
[b] ADFG 2017

Date: 3/3/2020
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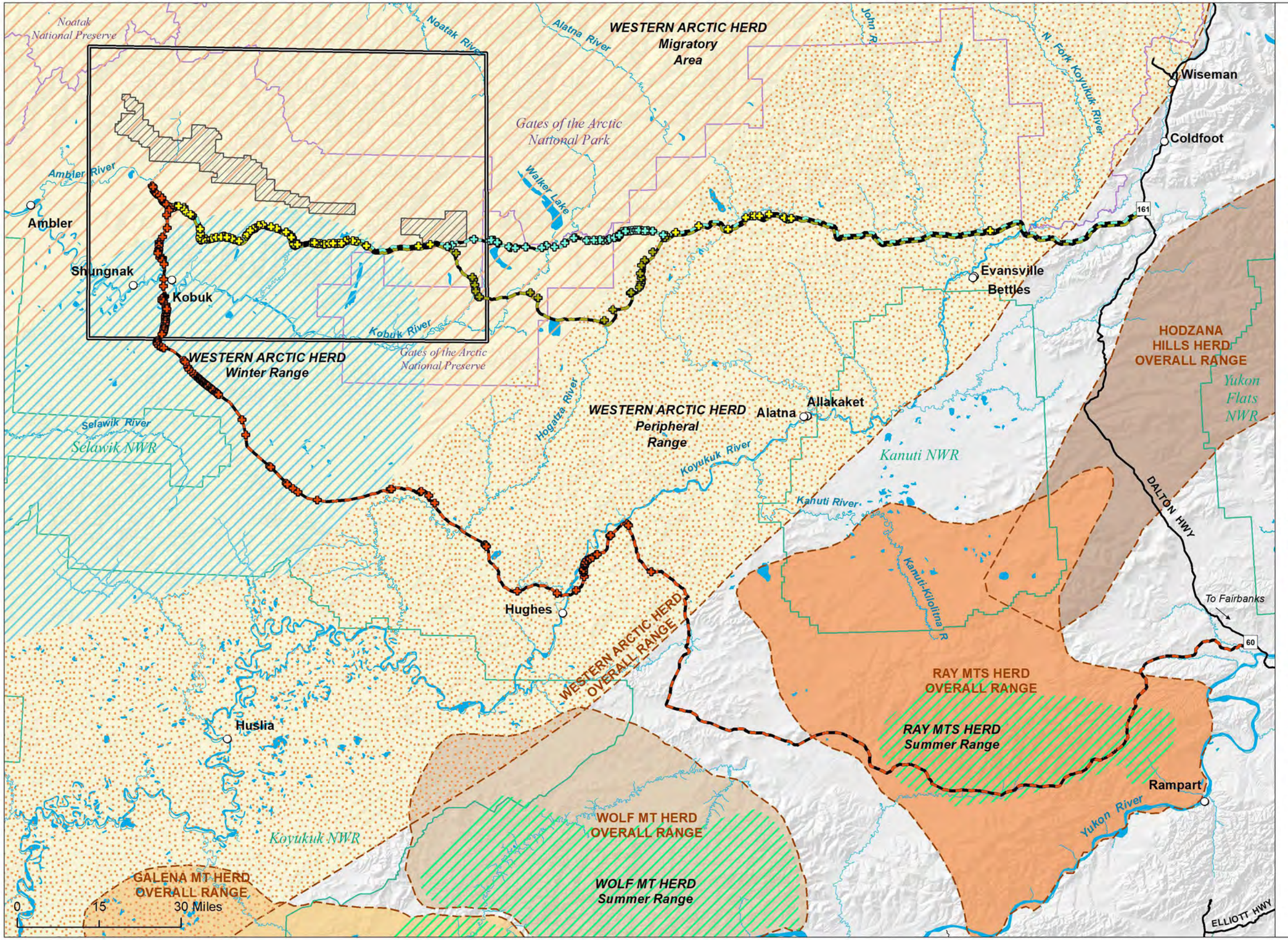
Map 3-21


Noatak National Preserve
Noatak River
Alatna River
WESTERN ARCTIC HERD Migratory Area
John R.
N. Fork Koyukuk River
Wiseman
Coldfoot
Gates of the Arctic National Park
Walker Lake
Ambler River
Ambler
Shungnak
Kobuk
Kobuk River
Gates of the Arctic National Preserve
WESTERN ARCTIC HERD Winter Range
161
Evansville
Bettles
HODZANA HILLS HERD OVERALL RANGE
Yukon Flats NWR
Hogatza River
WESTERN ARCTIC HERD Peripheral Range
Alatna
Allakaket
Koyukuk River
Kanuti NWR
Kanuti River
DALTON HWY
Selawik River
Selawik NWR
Hughes
Kanuti-Kiloliina R
To Fairbanks
60
WESTERN ARCTIC HERD OVERALL RANGE
RAY MTS HERD OVERALL RANGE
RAY MTS HERD Summer Range
Huslia
Rampart
WOLF MT HERD OVERALL RANGE
Yukon River
Koyukuk NWR
WOLF MT HERD Summer Range
GALENA MT HERD OVERALL RANGE
0
15
30 Miles
ELLIOTT HWY
Caribou Seasonal Ranges[b]
Galena Mountain Herd
Ray Mountains Herd
Wolf Mountain Herd
Hodzana Hills Herd
Western Arctic Herd
Winter Range
Migratory Area
Peripheral Range
Summer Range
Total Range
Known Caribou Crossings[c]
Alternative A Crossing
Alternative B Crossing
Alternative C Crossing
Alternative A and B Crossing
Alternative A
Alternative B
Alternative C
Community
Dalton Highway Mile Post
Ambler Mineral Belt[a]
Ambler Mining District[a]
National Wildlife Refuge Boundary[a]
National Park Service Boundary[a]
Data Source:
[a] BLM 2018
[b] ADFG 2017
[c] Joly, K, Unpublished data
Date: 3/3/2020
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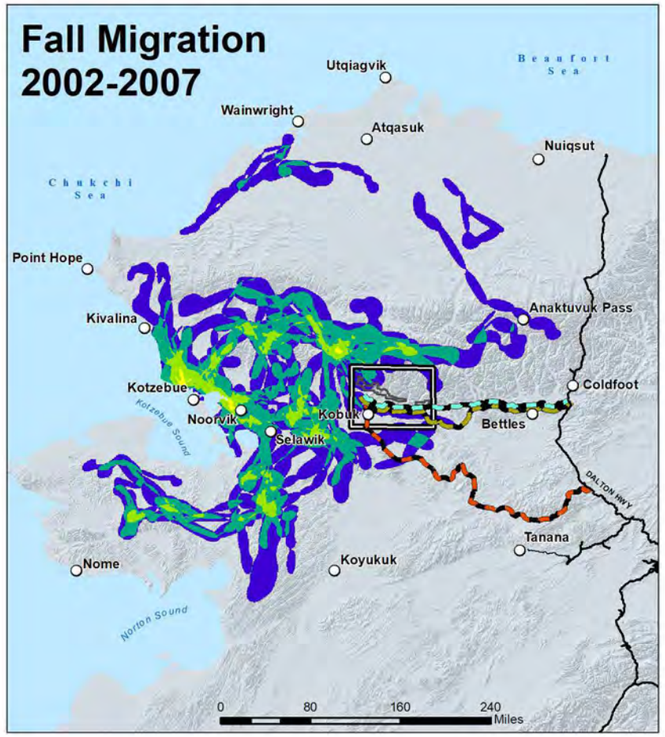
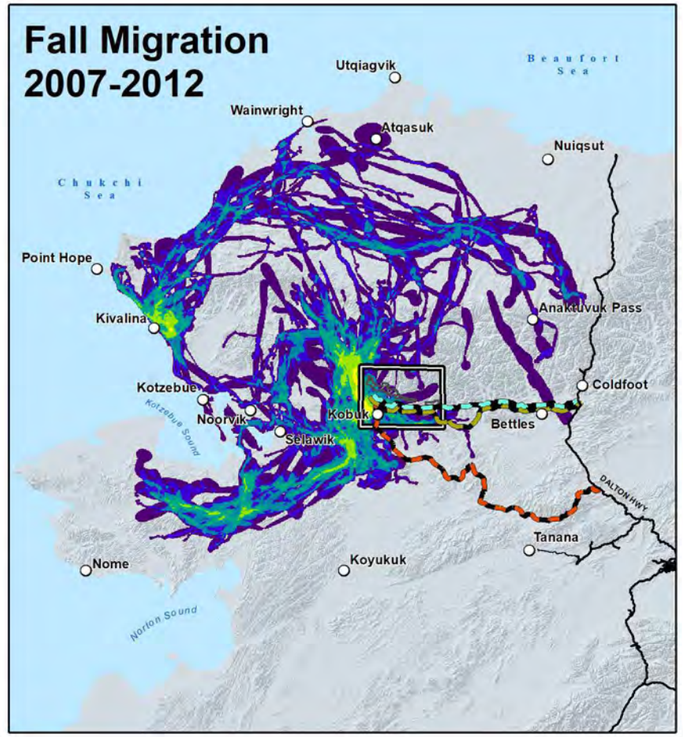
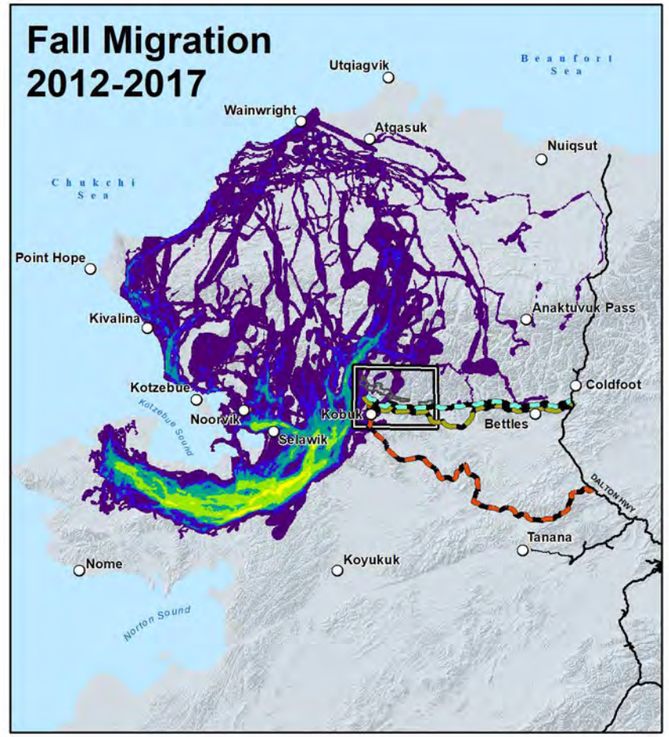
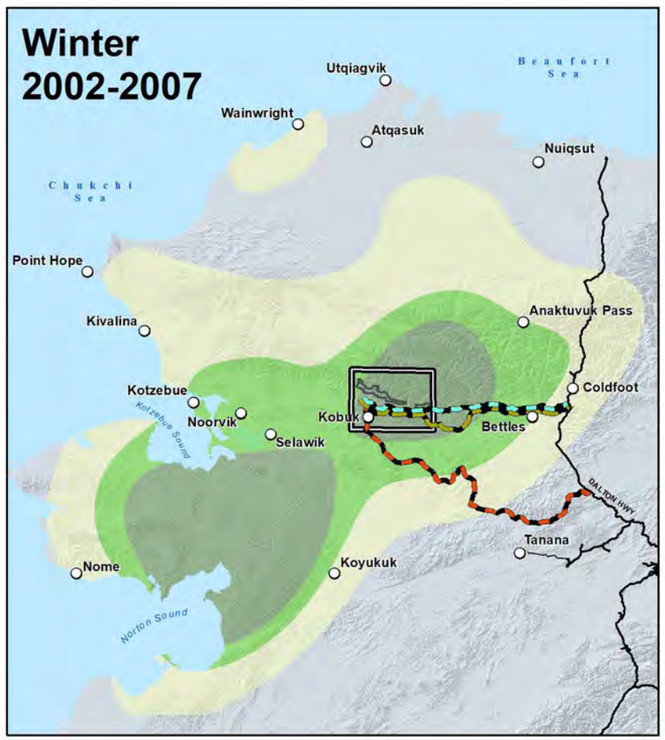
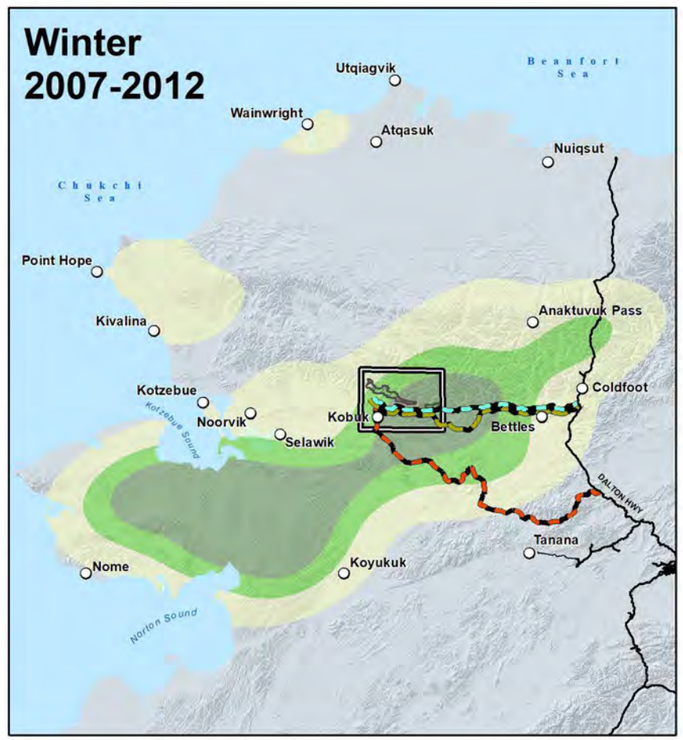
Map 3-22

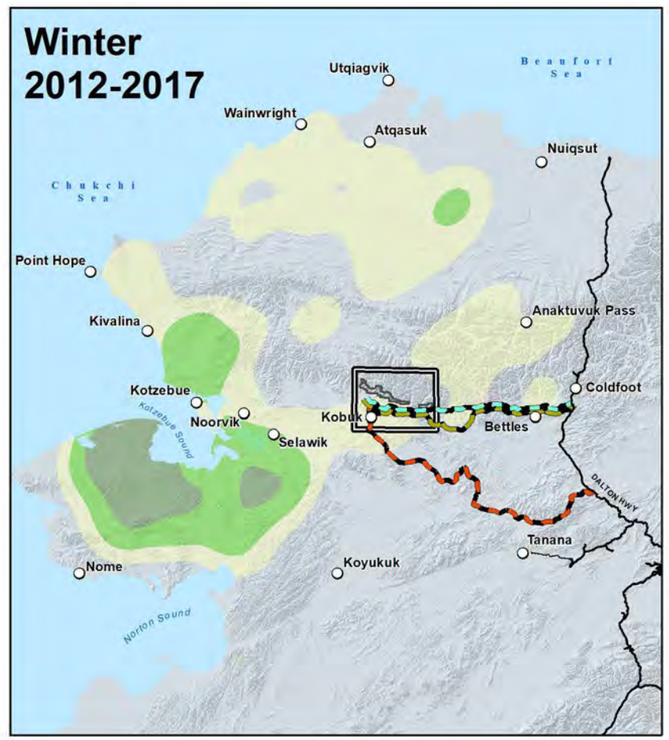












- Alternative A
- Alternative B
- Alternative C
- Community
- Ambler Mineral Belt[a]
- Ambler Mining District[a]

Areas of Concentrated Use[b]

- High Density
- Medium Density
- Low Density

Percent Use During Migration[c]

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 5
- 5 - 10
- >10

SOURCES:
[a] BLM 2018

[b] Utilization distribution contours from fixed-kernel analysis of locations of radio-collared female caribou - telemetry database from ADFG and National Park Service
Contours enclose stated percentages of all collar locations. High-, medium-, and low-density areas are the 50%, 75%, and 95% utilization distribution contours, respectively. Bandwidth calculated with plugin method. Seasonal kernels are average of daily utilization distributions during the season.

[c] Migration percentages calculated from the 95% utilization distribution of dynamic Brownian Bridge movement models for each individual.

Date: 3/3/2020
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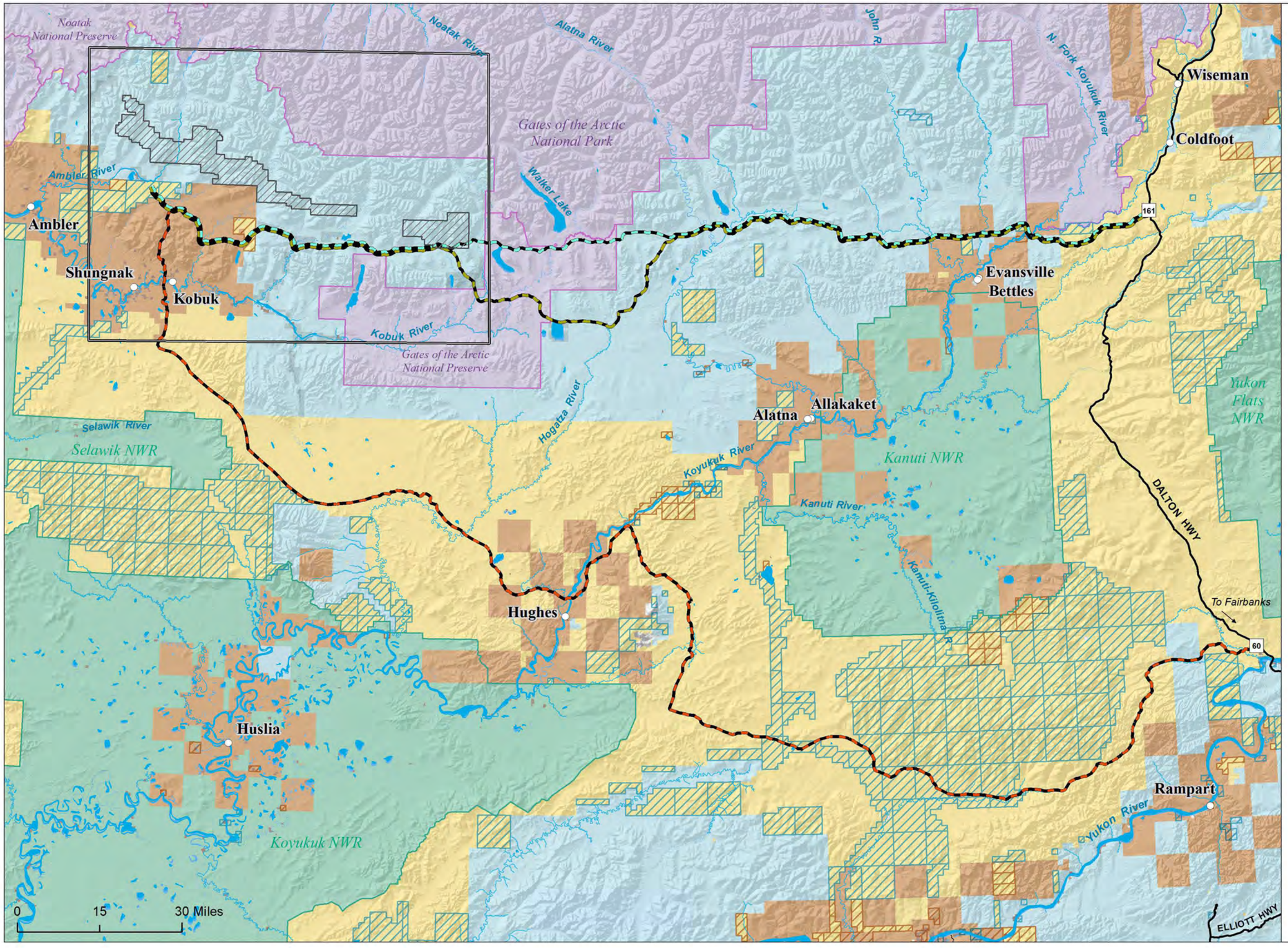
Map 3-23



Administered Lands[a]

- Alaska Native Allotment
- Alaska Native Lands
- Bureau of Land Management
- Fish and Wildlife Service
- Local Government
- National Park Service
- Other Federal
- Private
- State
- Water
- State Selected
- Native Selected
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post

Data Source:
[a] BLM 2018

Date: 3/3/2020
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Map 3-24

Noatak National Preserve
Noatak River
Alatna River
John R.
N. Fork Koyukuk River
Wiseman
Coldfoot
Gates of the Arctic National Park
Walker Lake
Ambler River
Ambler
Shungnak
Kobuk
Kobuk River
Gates of the Arctic National Preserve
161
Evansville
Bettles
Yukon Flats NWR
Hogatza River
Alatna
Allakaket
Selawik River
Selawik NWR
Koyukuk River
Kanuti NWR
Kanuti River
Kanuti-Kilolitna R
DALTON HWY
To Fairbanks
60
Hughes
Huslia
Koyukuk NWR
Rampart
Yukon River
ELLIOTT HWY
0
15
30 Miles

Mining Claims

- BLM Federal Mining Claim[a]
- DNR State Mining Claim[b]

Administered Lands[a]

- Alaska Native Allotment
- Alaska Native Land
- Bureau of Land Management
- Fish and Wildlife Service
- Local Government
- National Park Service
- Other Federal
- Private
- State
- Water
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Potential RS2477 Trail*[b]
- Community
- # Dalton Highway Mile Post

Data Source:
[a] BLM 2018
[b] DNR 2019

Date: 3/3/2020
*Revised Statute 2477 (RS2477) is found in Section 8 of the Mining Law of 1866. It granted states and territories rights-of-way over federal land that had no existing reservations or enteries.
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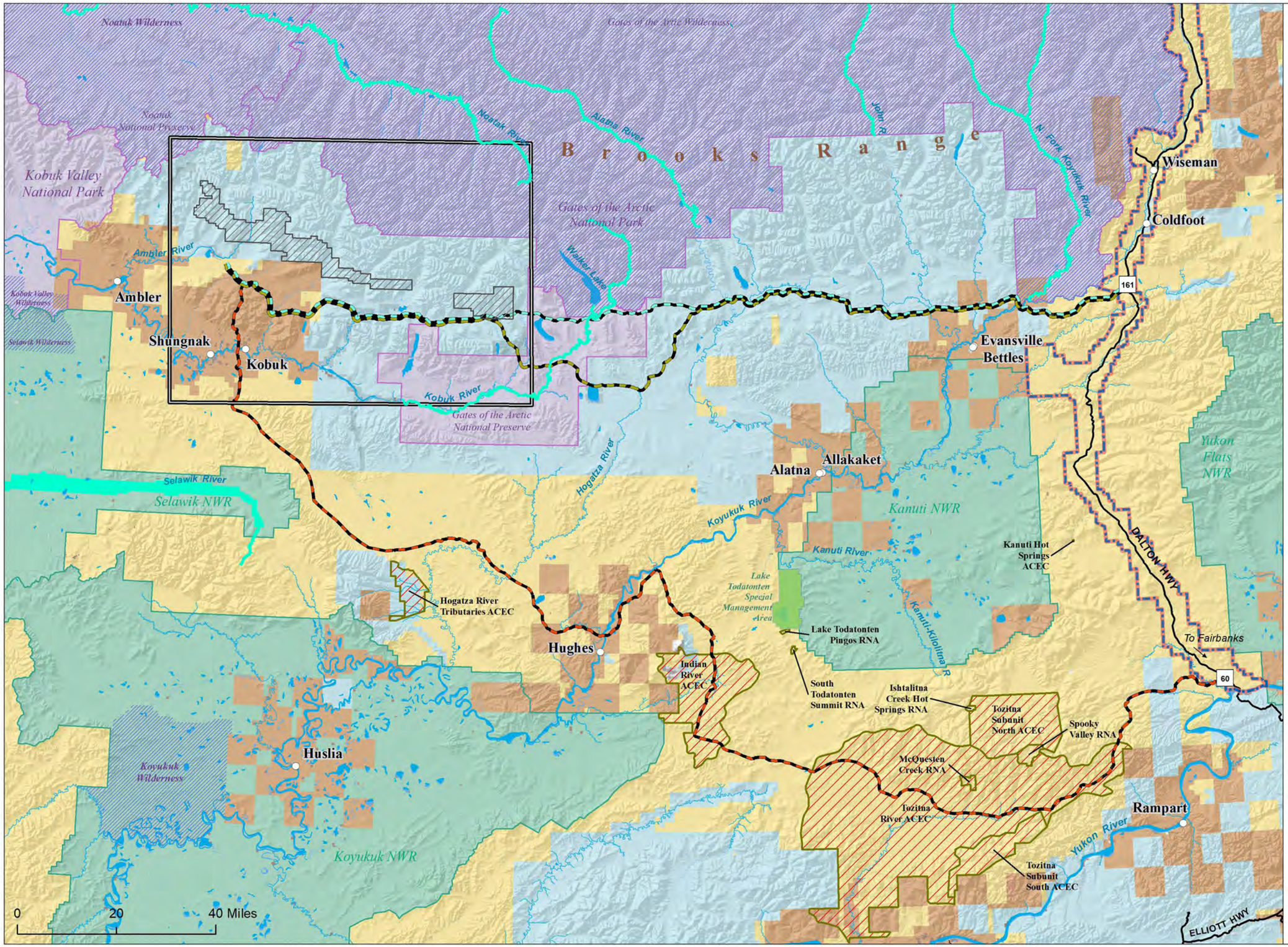
Map 3-25


Noatuk Wilderness
Gates of the Arctic Wilderness
Noatuk National Preserve
Noatak River
Alatna River
John River
N. Fork Koyukuk River
Brooks Range
Kobuk Valley National Park
Gates of the Arctic National Park
Wiseman
Coldfoot
Ambler River
Walker Lake
161
Ambler
Kobuk Valley Wilderness
Shungnak
Kobuk
Selawik Wilderness
Evansville
Bettles
Kobuk River
Gates of the Arctic National Preserve
Yukon Flats NWR
Hogatza River
Alatna
Allakaket
Selawik River
Selawik NWR
Koyukuk River
Kanuti NWR
Kanuti River
Kanuti Hot Springs ACEC
DALTON HWY
Hogatza River Tributaries ACEC
Lake Todatonten Special Management Area
Kanuti-Kilolitna R
To Fairbanks
Hughes
Lake Todatonten Pingos RNA
Indian River ACEC
South Todatonten Summit RNA
Ishtalitna Creek Hot Springs RNA
Tozitna Subunit North ACEC
60
Spooky Valley RNA
Huslia
Koyukuk Wilderness
McQuesten Creek RNA
Rampart
Tozitna River ACEC
Yukon River
Koyukuk NWR
Tozitna Subunit South ACEC
ELLIOTT HWY
0
20
40 Miles
BLM Special Recreation Management Area[a]
National Wilderness Preservation Boundary[a]
BLM Area of Critical Environmental Concern[a]
Lake Todatonten Special Management Area[a]
National Wild and Scenic River
Alaska Native Allotment[a]
Alaska Native Lands[a]
Bureau of Land Management[a]
Fish and Wildlife Service Boundary[a]
Local Government[a]
National Park Service Boundary[a]
Other Federal[a]
Private[a]
State[a]
Water[a]
Alternative A
Alternative B
Alternative C
Ambler Mineral Belt[a]
Ambler Mining District[a]
Community
Dalton Highway Mile Post
Data Source:
[a] BLM 2018
Date: 3/3/2020
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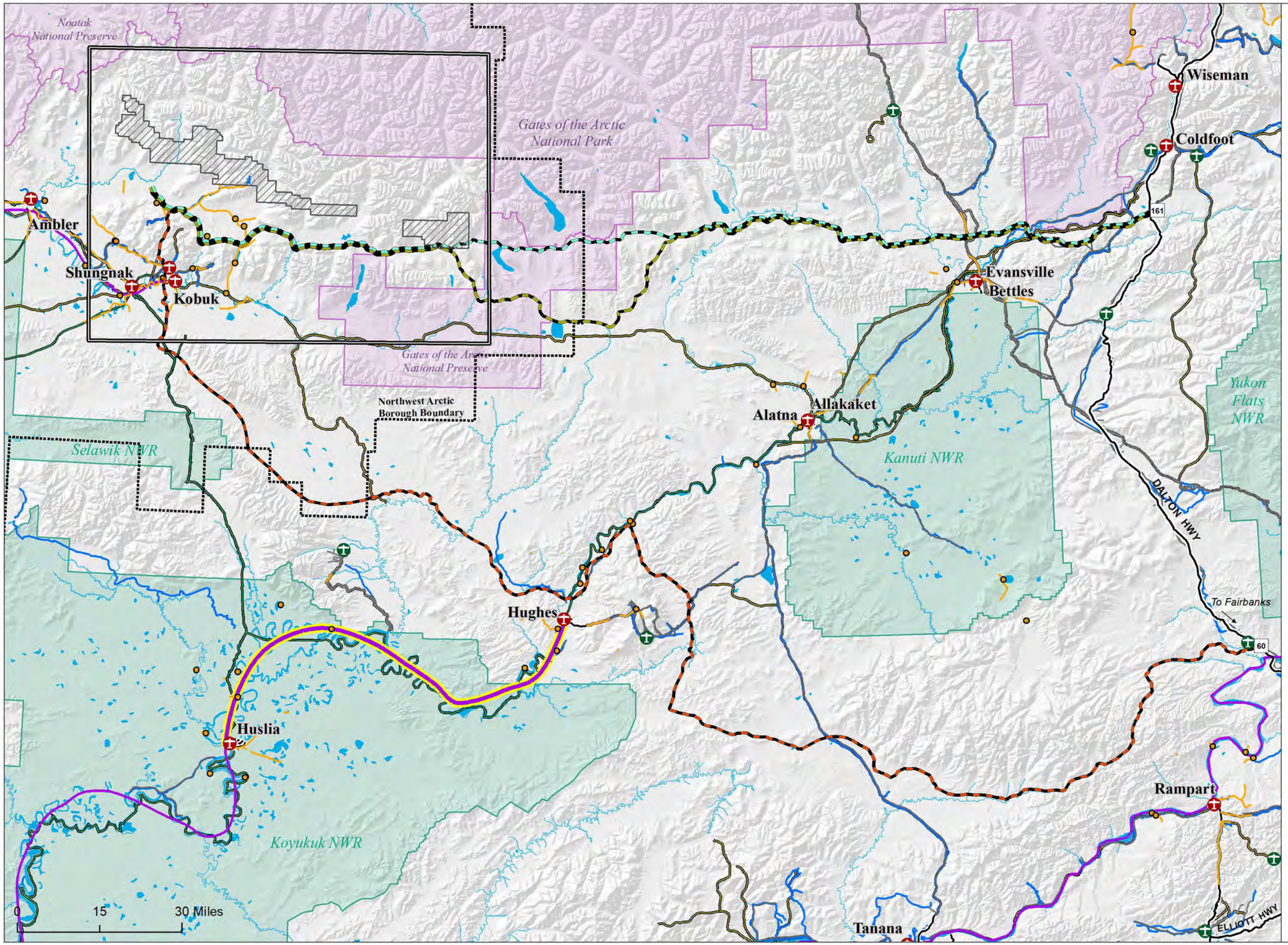
Map 3-26

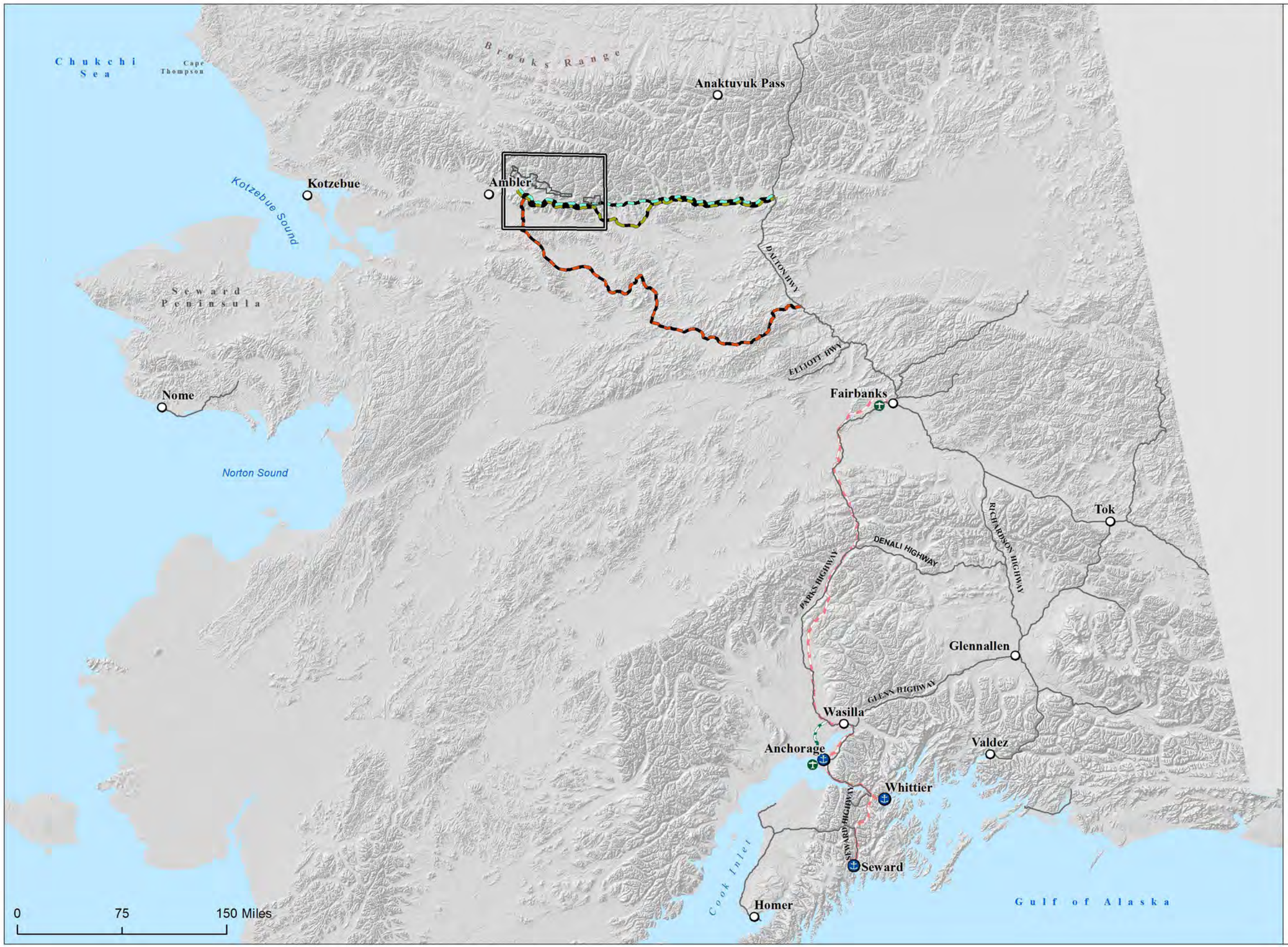


- Airport (Other/Private)[b]
- Airport (DOT_PF)[b]
- Major Road
- Minor Road (Dirt, Rock)
- Barge Route[c]
- Barge Route - Inconsistent Service[c]
- Potential RS2477 Trail*
- Winter Trail[c]
- DNR Trail Inventory[c]
- 17b Easement Route[b]
- 17b Easement Site[b]
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]
- Northwest Arctic Borough Boundary

Data Source:
[a] BLM 2018
[b] ADOT 2019
[c] DNR 2019

Date: 3/3/2020
*Revised Statute 2477 (RS2477) is found in Section 8 of the Mining Law of 1866. It granted states and territories rights-of-way over federal lands that had no existing reservations or entries.
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed through digital means and may be updated without notification.

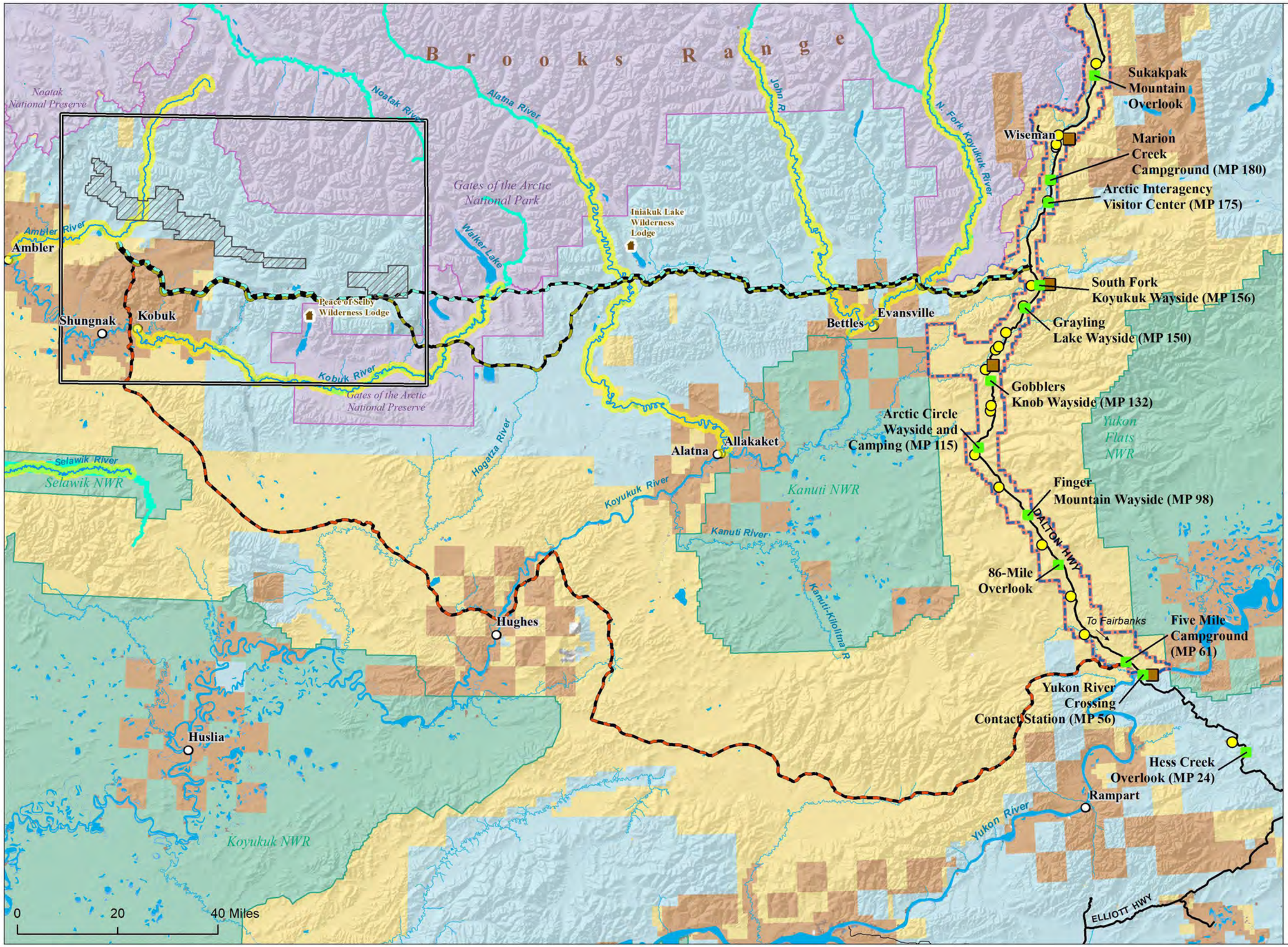
Map 3-27



Data Source:
[a] BLM 2018
[b] AKDOT 2019

Date: 3/3/2020
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed through digital means and may be updated without notification.

Map 3-28



Data Source:
[a] BLM 2018
[b] ADFG 2018

Date: 3/3/2020
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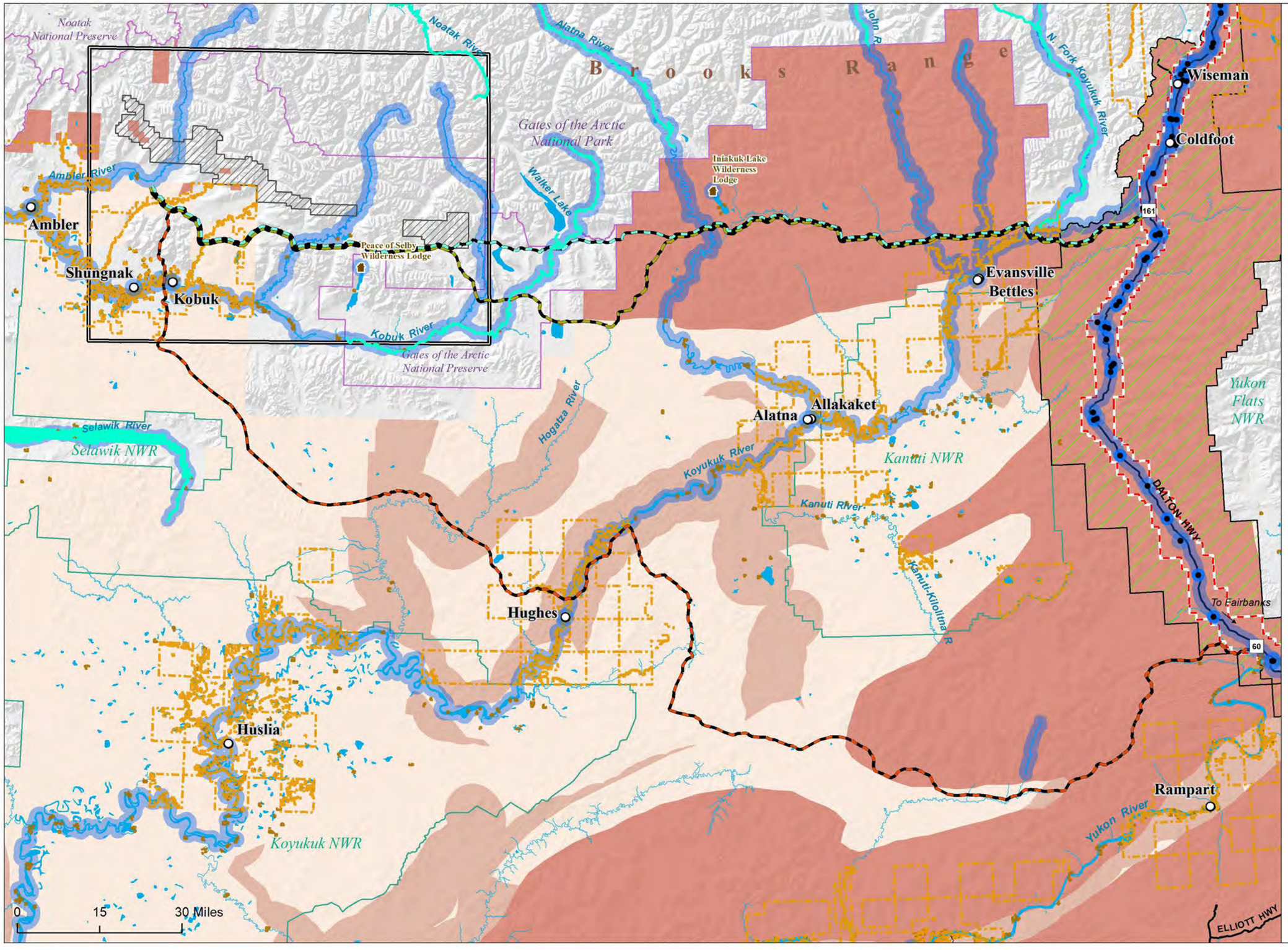
Map 3-29



Visual Resource Inventory Classes[a]

- VRI Class II
- VRI Class III
- VRI Class IV

Visual Resource Management Classes[a]

- Visual Resource Management Class III[a]
- Visual Resource Management Class IV[a]
- Recreation Location along the Dalton Highway[b]
- Potential Key Viewing Location Along the Dalton Highway[b]
- Potential Key Viewing Areas Affected[b]
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt[a]
- Ambler Mining District[a]
- National Wild and Scenic River
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary[a]
- National Park Service Boundary[a]
- Alaska Native Allotment[a]
- Alaska Native Lands[a]

Data Source:
[a] BLM 2018
[b] ADFG 2017

Date: 3/3/2020

BLM inventoried its lands and select adjoining lands but did not inventory all lands on the map.

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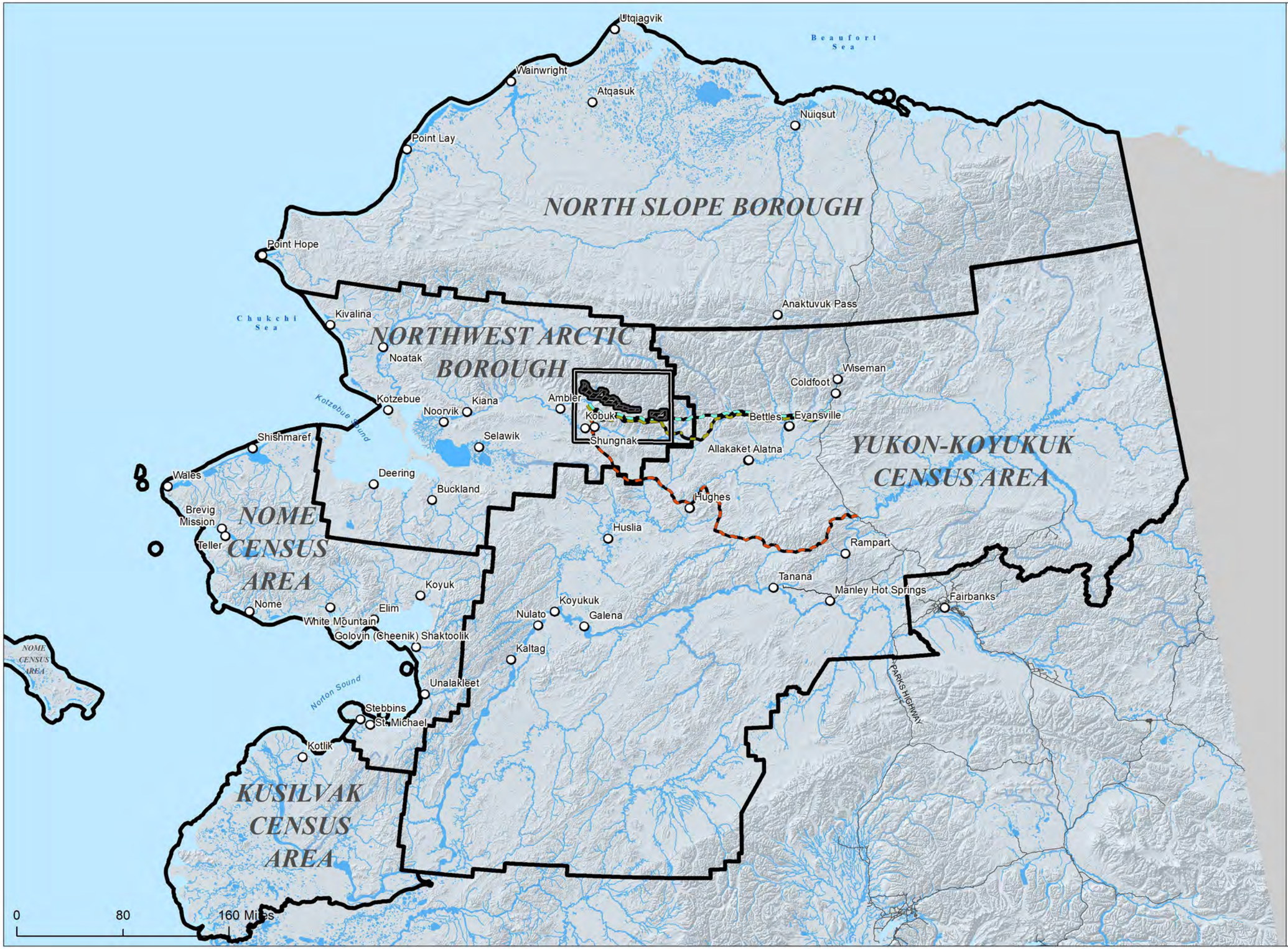
Map 3-30



Data Source:
[a] BLM 2018

Date: 3/3/2020
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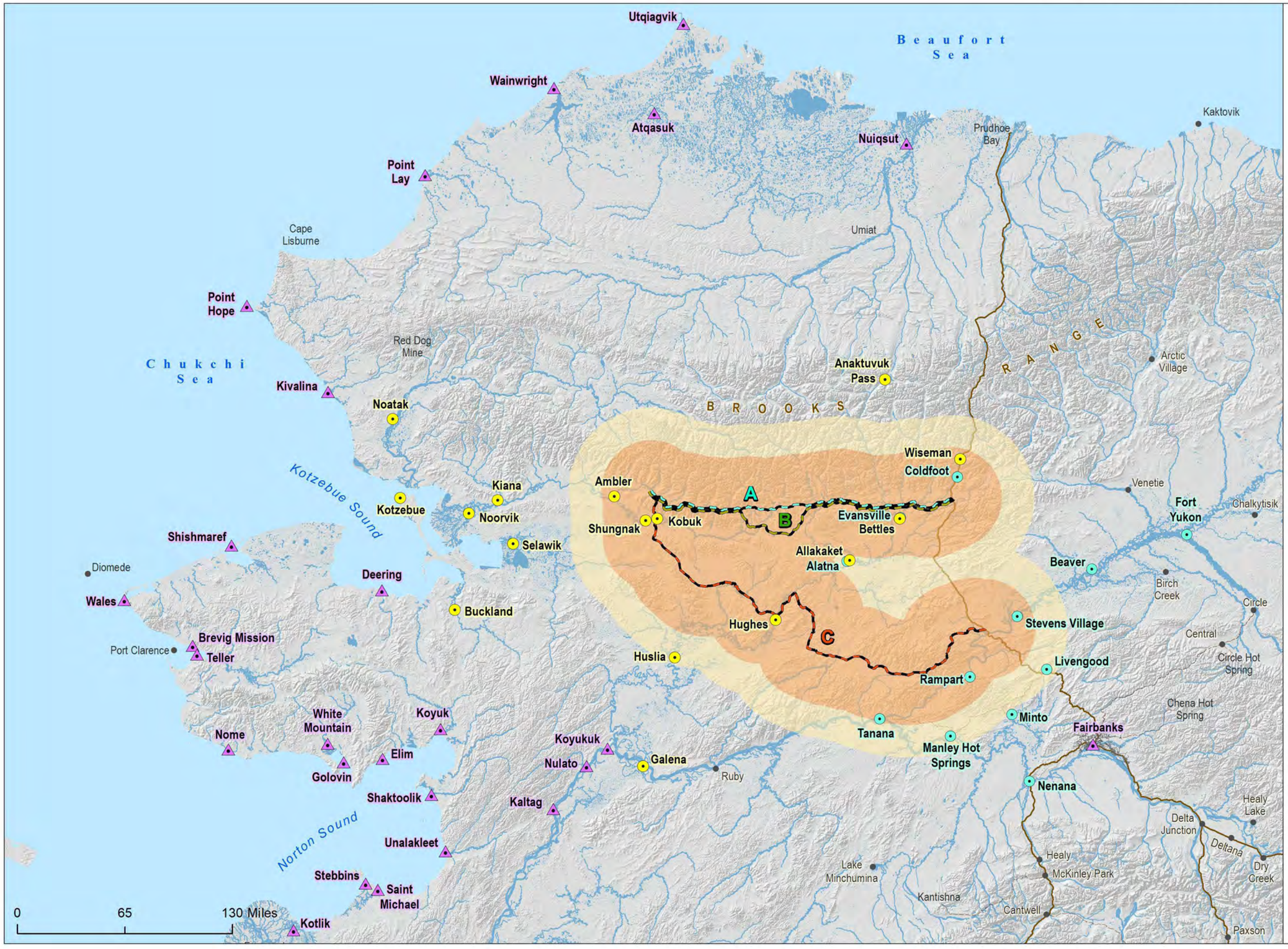
Map 3-31


Utqiagvik
Beaufort Sea
Wainwright
Atqasuk
Nuiqsut
Prudhoe Bay
Kaktovik
Point Lay
Cape Lisburne
Umiat
Point Hope
Red Dog Mine
Chukchi Sea
Kivalina
Noatak
Anaktuvuk Pass
BROOKS RANGE
Arctic Village
Wiseman
Coldfoot
Ambler
Venetie
Fort Yukon
Chalkytisik
Kiana
Kotzebue
Noorvik
Shungnak
Kobuk
Evansville
Bettles
Selawik
Allakaket
Alatna
Beaver
Shishmaref
Diomede
Deering
Wales
Buckland
Birch Creek
Circle
Hughes
Stevens Village
Brevig Mission
Port Clarence
Teller
Central
Circle Hot Spring
Huslia
Livengood
Rampart
White Mountain
Koyuk
Chena Hot Spring
Nome
Koyukuk
Minto
Fairbanks
Elim
Nulato
Galena
Tanana
Manley Hot Springs
Golovin
Ruby
Nenana
Shaktoolik
Kaltag
Healy Lake
Delta Junction
Unalakleet
Deltana
Healy
Stebbins
Saint Michael
Lake Minchumina
McKinley Park
Dry Creek
Kantishna
Cantwell
Kotlik
Paxson
Kotzebue Sound
Norton Sound
0
65
130 Miles
A
B
C
Subsistence Study Community[a]
Subsistence and Western Arctic Herd Working Group Community[a]
Western Arctic Herd Working Group Community[a]
Thirty Mile Buffer of Alternative[a]
Fifty Mile Buffer of Alternative[a]
Alternative A
Alternative B
Alternative C
Data Source:
[a] SRBA 2016/2019
Map prepared by Stephen R. Braund & Associates
Date: 3/3/2020
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Map 3-32