

## **APPENDIX A**

### **MAPS**



# APPENDIX A

## MAPS

### LIST OF FIGURES

Figure 1.1.b	General Locations of Fort Wainwright, Donnelly Training Area, and Fort Richardson .....	A-1
Figure 3.3.a	Terrain, Surface Water, and Fishing Areas at Fort Wainwright .....	A-2
Figure 3.3.b	Terrain, Surface Water, and Fishing Areas at Donnelly Training Area.....	A-3
Figure 3.3.c	Terrain, Surface Water, and Fishing Areas at Fort Richardson.....	A-4
Figure 3.4.a	Soil Properties Yukon Training Area .....	A-5
Figure 3.4.b	Soil Properties Donnelly Training Area.....	A-6
Figure 3.4.c	Soil Properties Fort Richardson.....	A-7
Figure 3.4.d	Permafrost Yukon Training Area.....	A-8
Figure 3.6.a	Groundwater Fort Wainwright .....	A-9
Figure 3.6.b	Groundwater Donnelly Training Area .....	A-10
Figure 3.7.a	Environmental Limitation Areas Fort Wainwright .....	A-11
Figure 3.7.b	Environmental Limitation Areas Donnelly Training Area.....	A-12
Figure 3.7.c	Environmental Limitation Areas Fort Richardson.....	A-13
Figure 3.7.d	Wetlands Fort Wainwright Main Post and Tanana Flats Training Area.....	A-14
Figure 3.7.e	Wetlands Yukon Training Area .....	A-15
Figure 3.7.f	Wetlands Donnelly Training Area.....	A-16
Figure 3.7.g	Wetlands Fort Richardson.....	A-17
Figure 3.8.a	Ecotypes Tanana Flats Training Area .....	A-18
Figure 3.8.b	Ecotypes Yukon Training Area .....	A-19
Figure 3.8.c	Ecotypes Donnelly Training Area.....	A-20
Figure 3.8.d	Ecotypes Fort Richardson.....	A-21
Figure 3.9.a	Game Management Units Overlapping USARAK Lands .....	A-22
Figure 3.9.b	Moose Concentration Areas in Interior Alaska.....	A-23
Figure 3.9.c	Waterfowl and Raptor Concentration Areas and Trumpeter Swan Nest Sites in Interior Alaska.....	A-24
Figure 3.9.d	Bison and Dall Sheep Concentration and Migration Routes Donnelly Training Area .....	A-25
Figure 3.9.e	Distribution of Delta and Macomb Caribou Herds Donnelly Training Area...	A-26
Figure 3.9.f	Sandhill Crane Habitat and Migration Routes Donnelly Training Area.....	A-27
Figure 3.9.g	Moose Concentration Areas in Anchorage Area.....	A-28
Figure 3.9.h	Waterfowl Concentration Areas and Trumpeter Swan Nest Sites in Anchorage Area .....	A-29
Figure 3.11.a	Fire Management Areas Fort Wainwright.....	A-30
Figure 3.11.b	Fire Management Areas Donnelly Training Area.....	A-31
Figure 3.11.c	Fire Management Areas Fort Richardson .....	A-32
Figure 3.11.d	Fire History Fort Wainwright.....	A-33
Figure 3.11.e	Fire History Donnelly Training Area.....	A-34
Figure 3.11.f	Fire History Fort Richardson .....	A-35

Figure 3.12.a	Cultural Resource Areas Surveyed Fort Wainwright Main Post and Tanana Flats Training Area .....	A-36
Figure 3.12.b	Cultural Resource Areas Surveyed Yukon Training Area .....	A-37
Figure 3.12.c	Cultural Resource Areas Surveyed Donnelly Training Area .....	A-38
Figure 3.12.d	Cultural Resource Areas Surveyed Fort Richardson .....	A-39
Figure 3.14.a	Recreational Use Areas Fort Wainwright Main Post and Tanana Flats Training Area .....	A-40
Figure 3.14.b	Recreational Use Areas Yukon Training Area.....	A-41
Figure 3.14.c	Recreational Use Areas Donnelly Training Area.....	A-42
Figure 3.14.d	Recreational Use Areas Fort Richardson .....	A-43
Figure 3.15.a	Subsistence Areas Fort Wainwright and Donnelly Training Area .....	A-44
Figure 3.16.a	Existing Noise Contours Fort Wainwright Main Post and Tanana Flats Training Area .....	A-45
Figure 3.16.b	Existing Noise Contours Yukon Training Area.....	A-46
Figure 3.16.c	Existing Noise Contours Donnelly Training Area.....	A-47
Figure 3.16.d	Existing Noise Contours Fort Richardson .....	A-48
Figure 3.17.a	Contaminated Sites Fort Wainwright.....	A-49
Figure 3.17.b	Contaminated Sites Fort Richardson .....	A-50
Figure 3.18.a	Fairbanks North Star Borough Communities Fort Wainwright.....	A-51
Figure 3.18.b	Southeast Fairbanks Census Area Communities Donnelly Training Area .....	A-52
Figure 3.18.c	Matsunaka-Susitna Borough, Kenai Peninsula Borough and Municipality of Anchorage Communities Fort Richardson.....	A-53
Figure 3.19.b	Special Use Airspace Fort Wainwright and Donnelly Training Area .....	A-54
Figure 3.19.c	Special Use Airspace Fort Richardson .....	A-55
Figure 4.4.a	Stryker Summer and Winter Maneuverability Fort Wainwright.....	A-56
Figure 4.4.b	Stryker Summer and Winter Maneuverability Donnelly Training Area.....	A-57
Figure 4.4.c	Stryker Summer and Winter Maneuverability Fort Richardson .....	A-58
Figure 4.11.a	Fuel Types Fort Wainwright Main Post and Tanana Flats Training Area .....	A-59
Figure 4.11.b	Fuel Types Yukon Training Area.....	A-60
Figure 4.11.c	Fuel Types Donnelly Training Area.....	A-61
Figure 4.11.d	Fuel Types Fort Richardson .....	A-62
Figure 4.16.a	Comparison of Existing and Projected Noise Contours Fort Wainwright Main Post.....	A-63
Figure 4.16.b	Comparison of Existing and Projected Noise Contours Tanana Flats Training Area .....	A-64
Figure 4.16.c	Comparison of Existing and Projected Noise Contours Yukon Training Area .....	A-65
Figure 4.16.d	Comparison of Existing and Projected Noise Contours Donnelly Training Area .....	A-66
Figure 4.16.e	Comparison of Existing and Projected Noise Contours Alternative 3 Fort Richardson .....	A-67
Figure 4.16.f	Comparison of Existing and Projected Noise Contours Alternative 4 Fort Richardson .....	A-68
Figure 4.20.a	Interior Alaska Region of Interest Infrastructure.....	A-69
Figure 4.20.b	Interior Alaska Region of Interest Land Ownership.....	A-70
Figure 4.20.c	South-Central Alaska / Anchorage Area Region of Interest Infrastructure .....	A-71
Figure 4.20.d	South-Central Alaska / Anchorage Area Region of Interest Land Ownership.....	A-72
Figure 4.20.e	Existing Ranges, Mission Essential Projects, and Proposed SBCT Construction Projects at Fort Wainwright.....	A-73

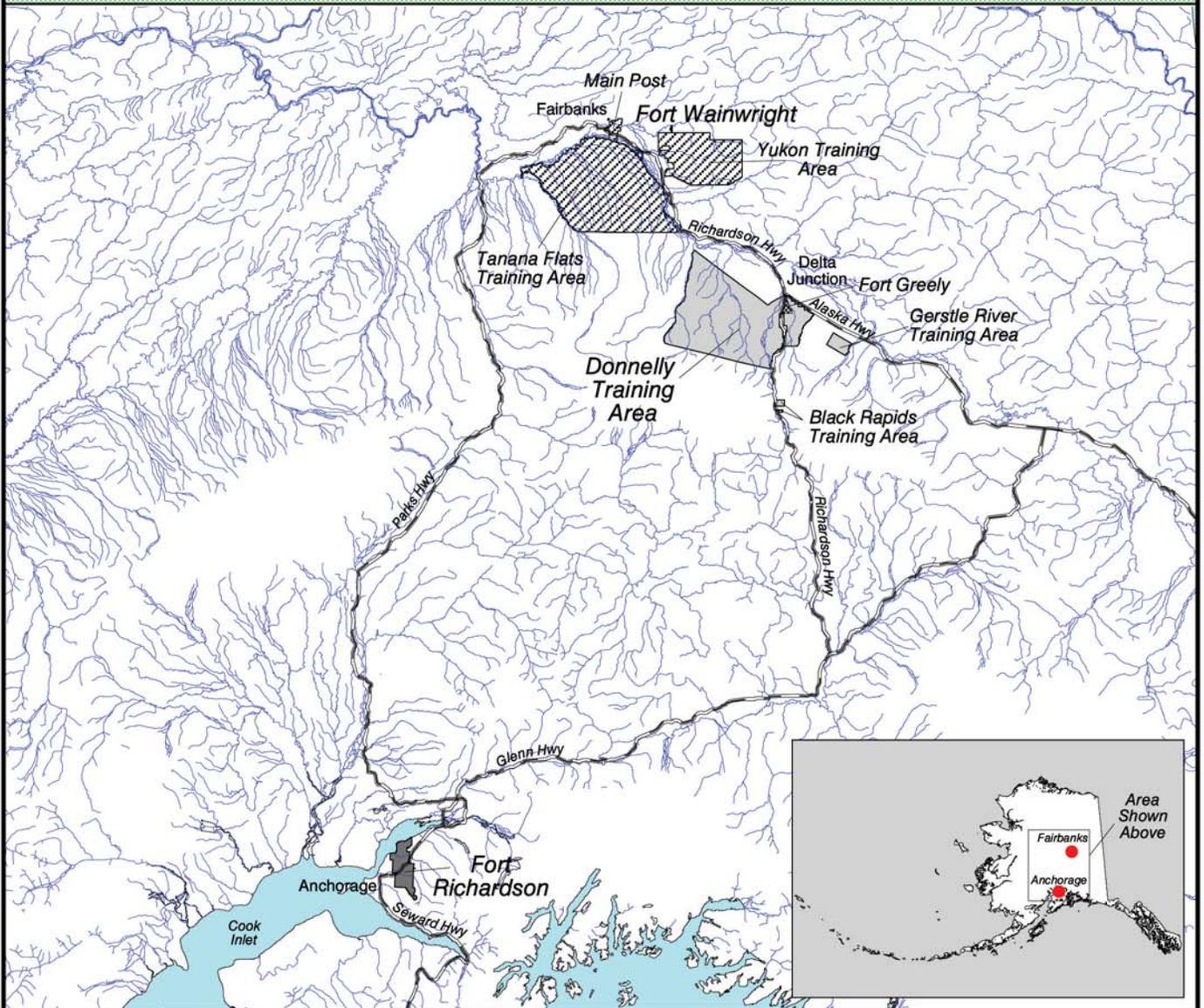
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Figure 4.20.f	Existing and Mission Essential Ranges at Yukon Training Area .....	A-74
Figure 4.20.g	Existing Ranges, Proposed Mission Essential Ranges, Proposed SBCT Construction Projects, and Other Military Construction Projects at Donnelly Training Area .....	A-75
Figure 4.20.h	Existing Ranges, Mission Essential Projects, and Proposed SBCT Construction Projects at Fort Richardson .....	A-76

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Figure 1.1.b

**General Locations  
Fort Wainwright, Donnelly Training Area, and Fort Richardson**



**Legend**

- |  |   |
|--|---|
|  Fort Wainwright        |  Fort Greely |
|  Donnelly Training Area |  Highways    |
|  Fort Richardson        |  Streams     |

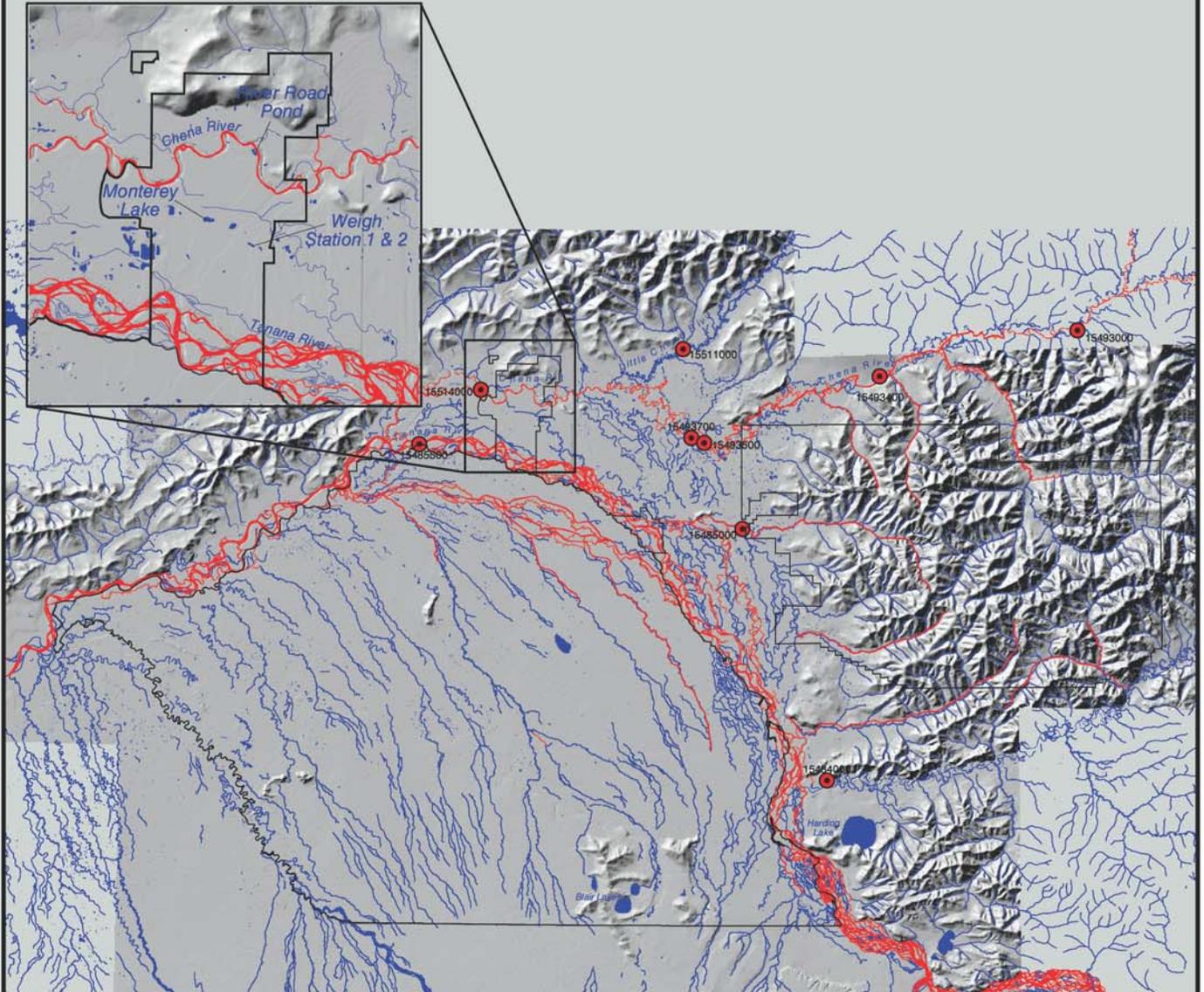
Source:  
U.S. Army Alaska 2002e,f,g

Scale: 1:3500000



Figure 3.3.a

*Terrain, Surface Water, and Fishing Areas at Fort Wainwright*



Legend

-  Installation Boundary
-  Anadromous Streams
-  Lakes
-  Stream Gauging Stations
-  Streams

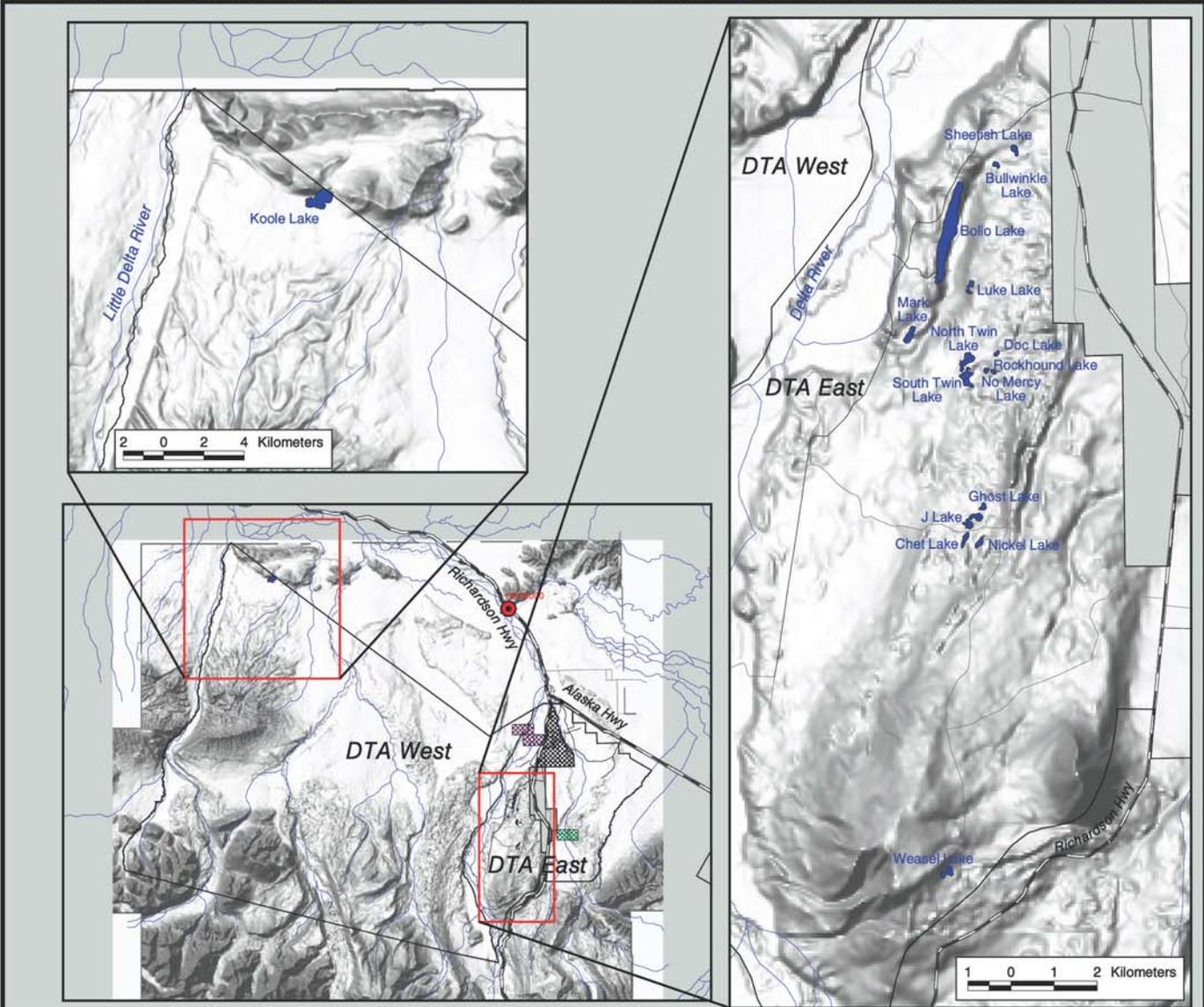
Source:  
U.S. Army Alaska 2002g

Scale: 1:700000  
10 0 10 Miles



# Figure 3.3.b

## Terrain, Surface Water, and Fishing Areas at Donnelly Training Area



### Legend

- |   |  |   |                               |   |                          |
|---|--|---|-------------------------------|---|--------------------------|
|  | <i>Installation Boundary</i>   |  | <i>Stocked Lakes</i>          |  | <i>Highways</i>          |
|  | <i>Fort Greely</i>   |  | <i>Stream Gauging Station</i> |  | <i>All-Weather Roads</i> |
|  | <i>Delta River Bridge</i><br>Water Use: 300,000 gal/day<br>Number of Days in Use: 90       |   |                               |  | <i>Light Duty Roads</i>  |
|  | <i>Jarvis Creek Bridge No. 2</i><br>Water Use: 40,000 gal/day<br>Number of Days in Use: 90 |   |                               |  | <i>Streams</i>           |

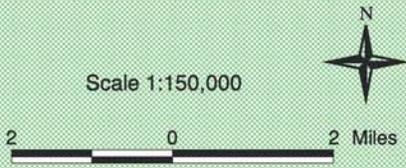
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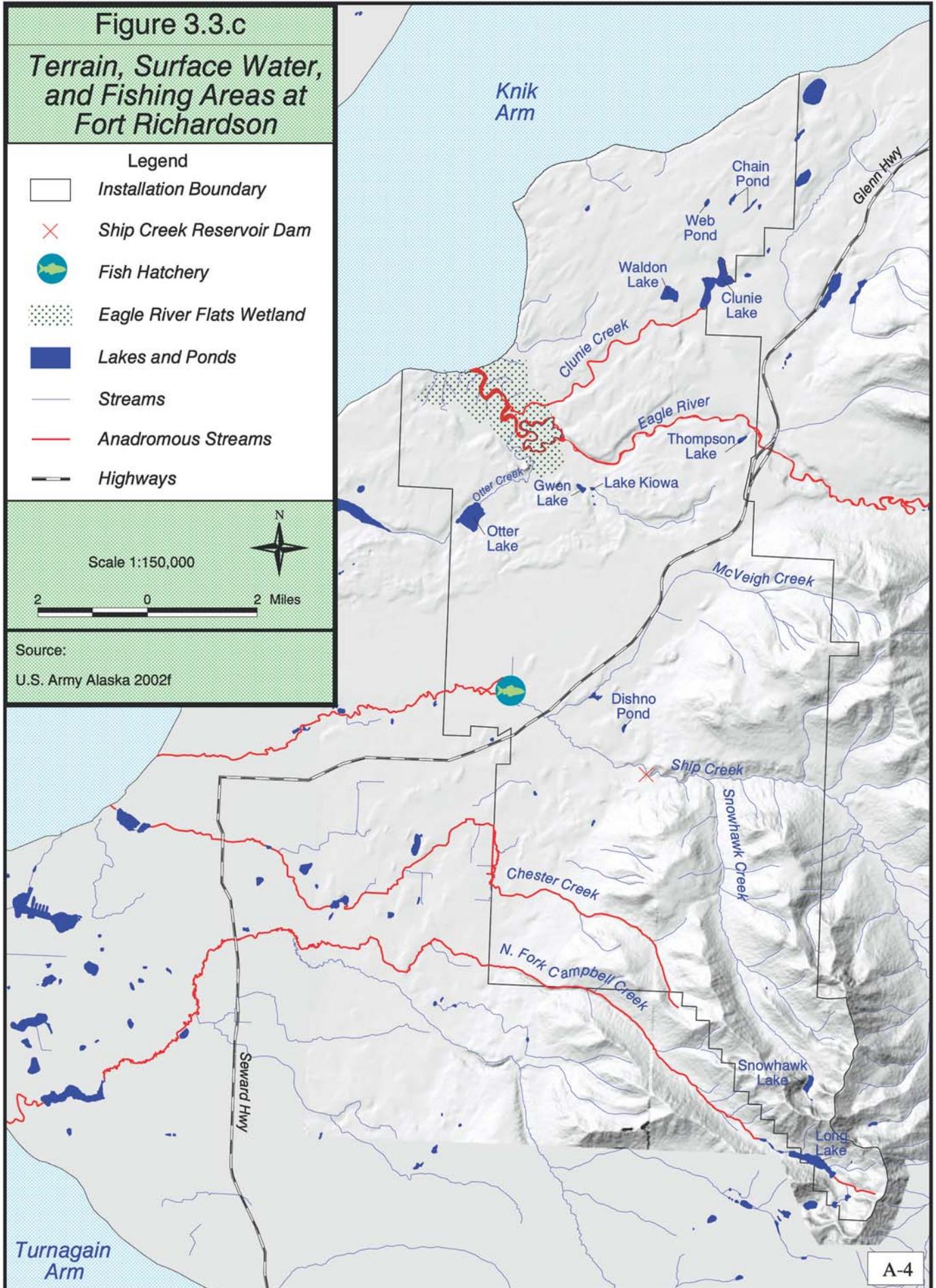
Figure 3.3.c

**Terrain, Surface Water, and Fishing Areas at Fort Richardson**

- Legend
-  Installation Boundary
  -  Ship Creek Reservoir Dam
  -  Fish Hatchery
  -  Eagle River Flats Wetland
  -  Lakes and Ponds
  -  Streams
  -  Anadromous Streams
  -  Highways

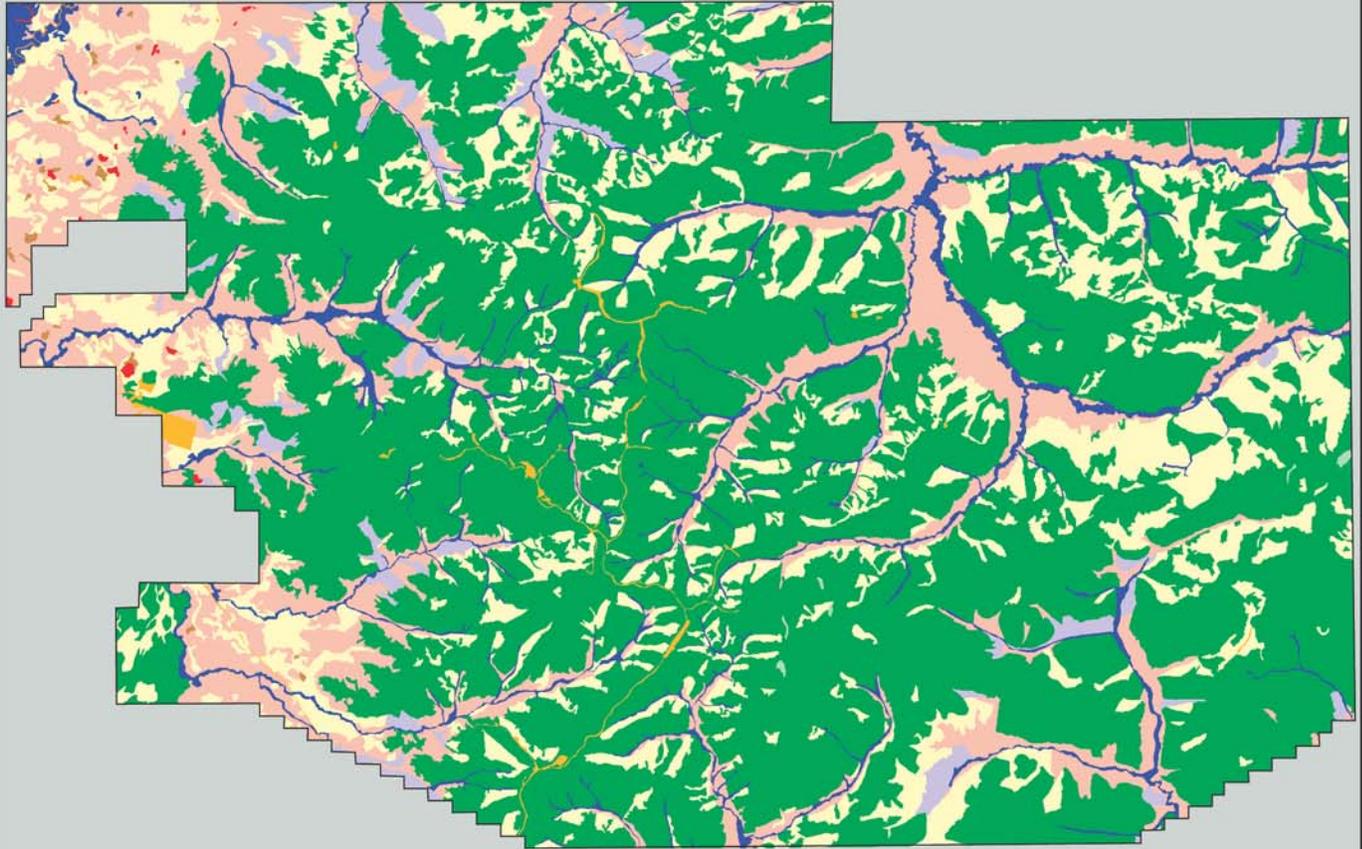


Source:  
U.S. Army Alaska 2002f



# Figure 3.4.a

## Soil Properties Yukon Training Area



### Legend

- |  |  |
|--|--|
|  <i>Average Wetness</i> |  <i>Average Organic Silt</i>        |
|  <i>Saturated</i>       |  <i>Wet Organic Silt</i>            |
|  <i>Dry Silt</i>        |  <i>Saturated Organic Silt</i>      |
|  <i>Average Silt</i>    |  <i>Very Saturated Organic Silt</i> |
|  <i>Saturated Silt</i>  |  <i>Installation Boundary</i>       |

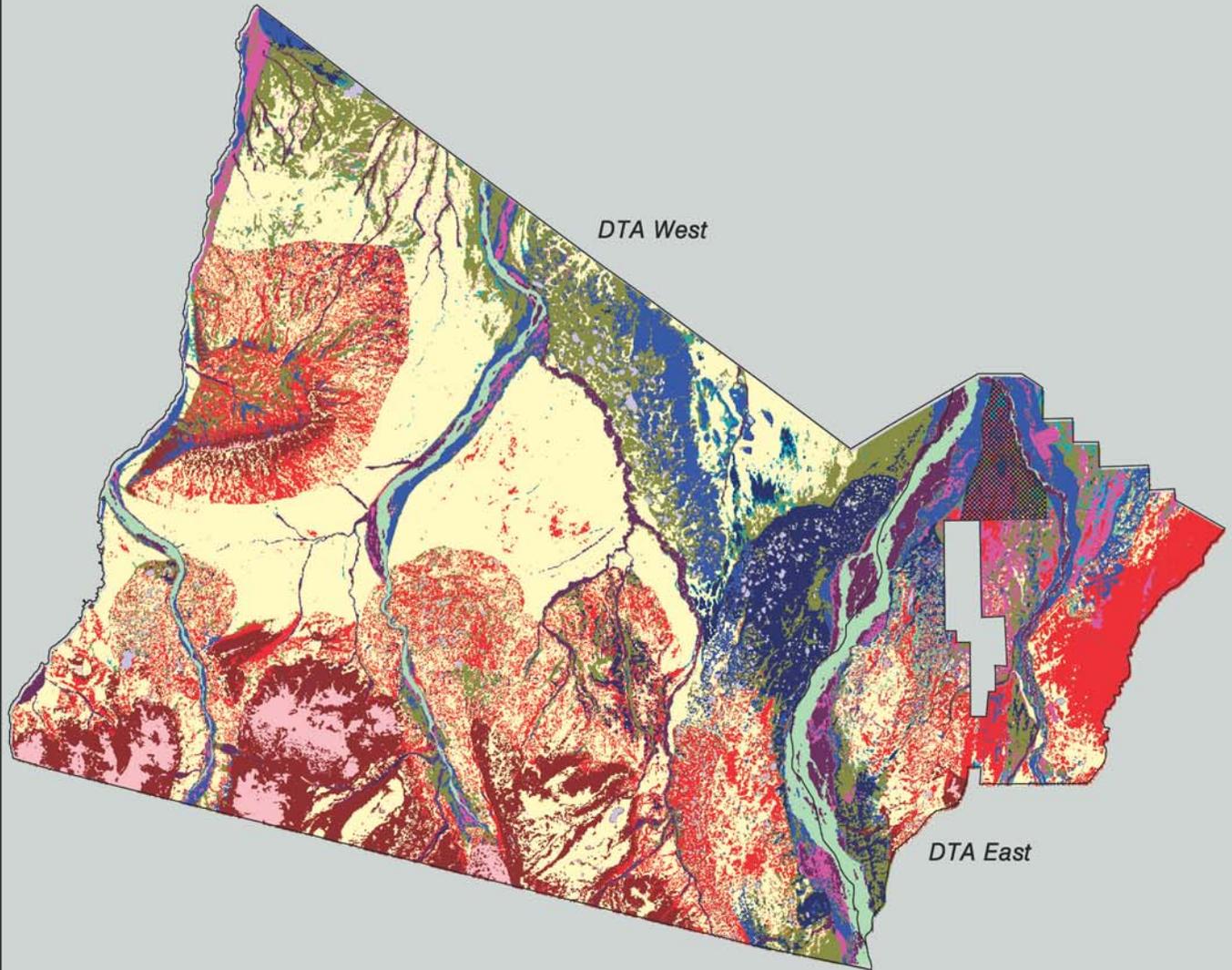
Source:  
Shoop et al. 2002

Scale: 1:250000  
5 0 5 Miles



Figure 3.4.b

Soil Properties  
Donnelly Training Area



Legend

- |   |   |   |
|---|---|---|
|  Installation Boundary |  Fort Greely                |   |
|  Bedrock               |  Saturated Silty Gravel      |  Dry Sand            |
|  Bedrock               |  Very Saturated Silty Gravel |  Average Sand        |
|  Bedrock               |  Average Silt                |  Wet Sand            |
|  Bedrock               |  Wet Silt                    |  Saturated Sand      |
|  Dry Silty Gravel      |  Saturated Silt              |  Very Saturated Sand |

Source:  
Shoop et al. 2002

Scale: 1:450000  
10 0 10 Miles



Figure 3.4.c

Soil Properties  
Fort Richardson

Legend

-  Installation Boundary
-  Bedrock
-  Bedrock
-  Dry Silty Gravel
-  Average Silty Gravel
-  Wet Silty Gravel
-  Saturated Silty Gravel
-  Average Organic Silt
-  Wet Organic Silt
-  Saturated Organic Silt
-  Very Saturated Organic Silt
-  Average Peat
-  Saturated Peat
-  Very Saturated Peat
-  Average Sand
-  Wet Sand
-  Saturated Sand
-  Very Saturated Sand



Source:  
Shoop et al. 2002

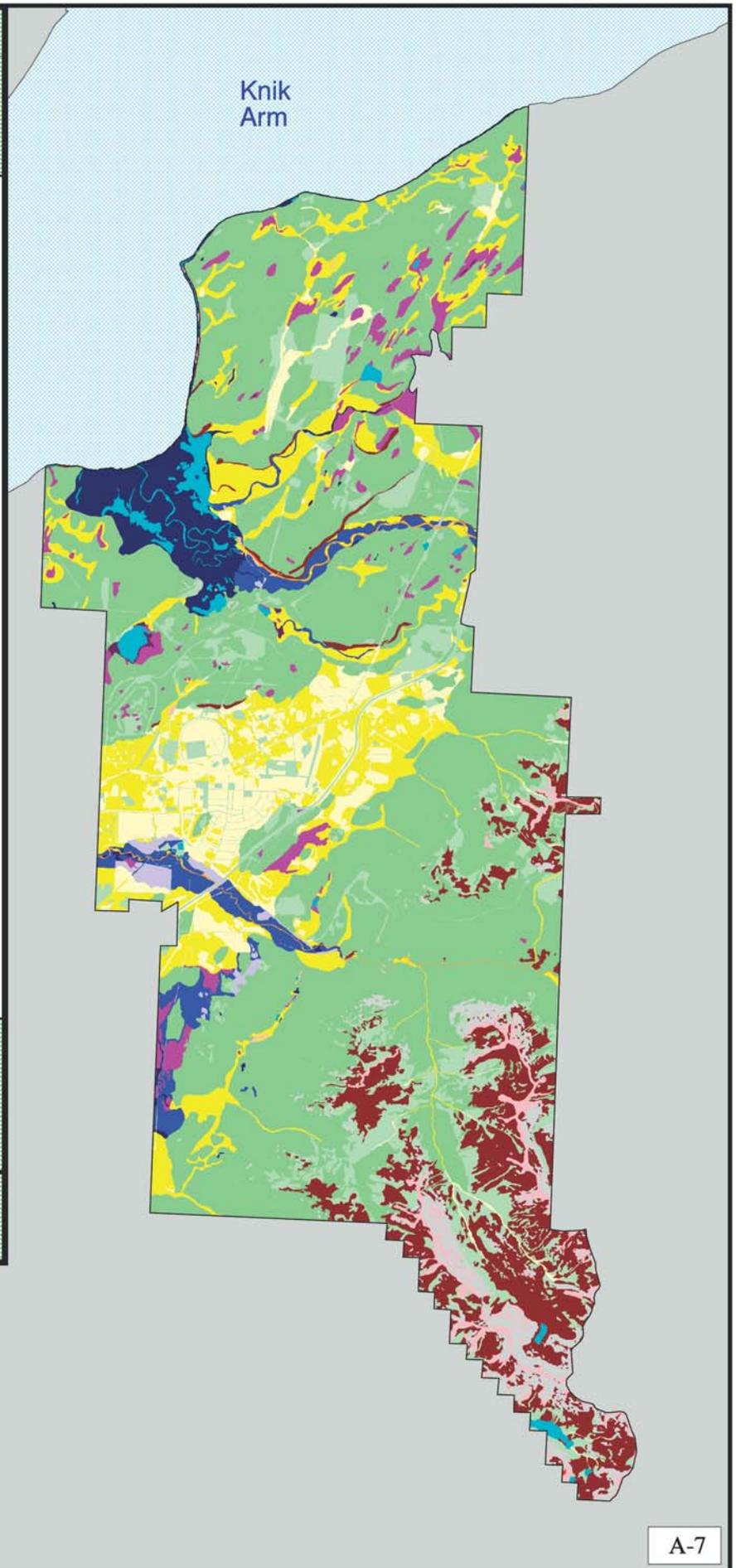
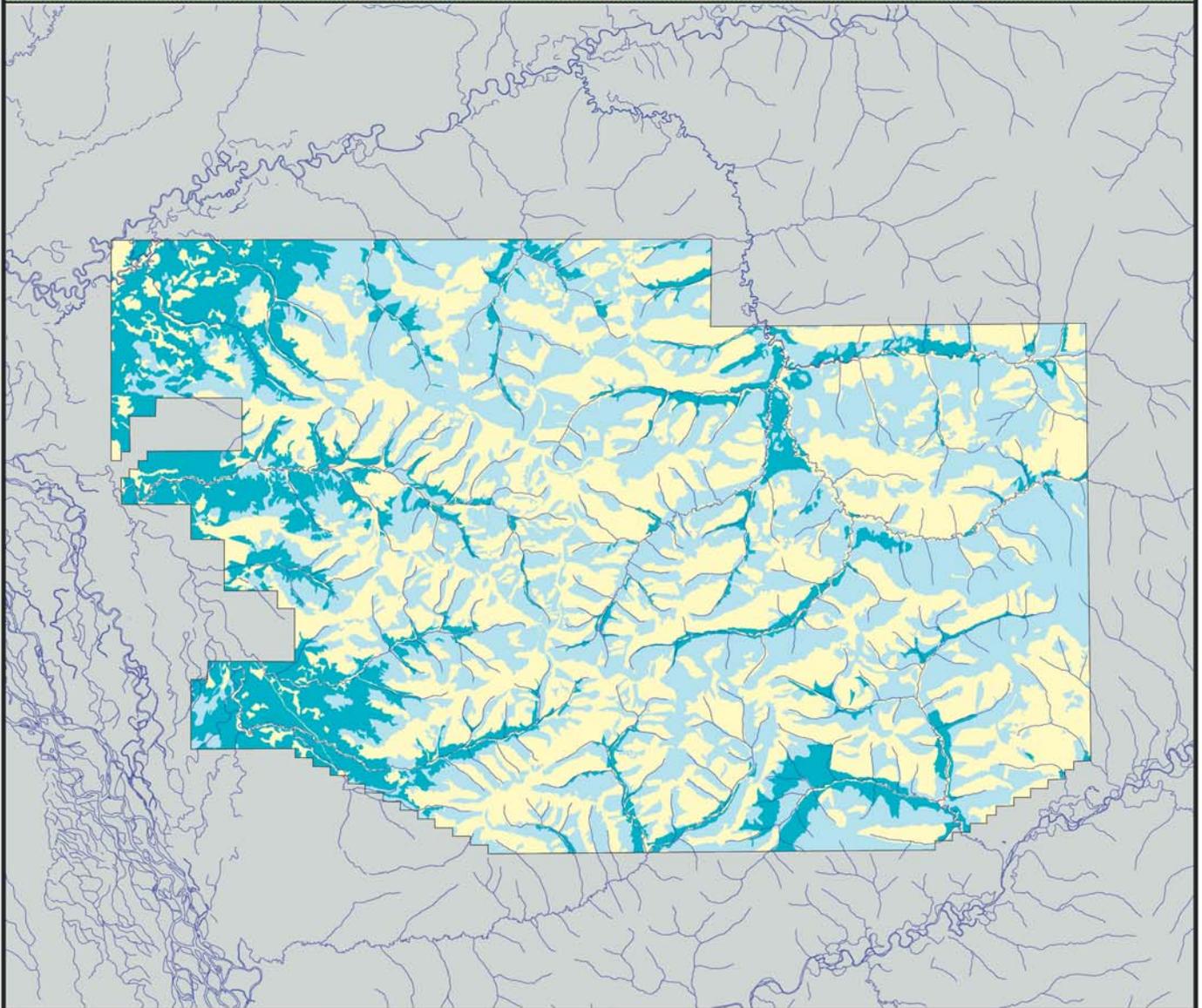


Figure 3.4.d

*Permafrost  
Yukon Training Area*



Legend



*Continuous*



*Discontinuous*



*Permafrost Free*



*Installation Boundary*



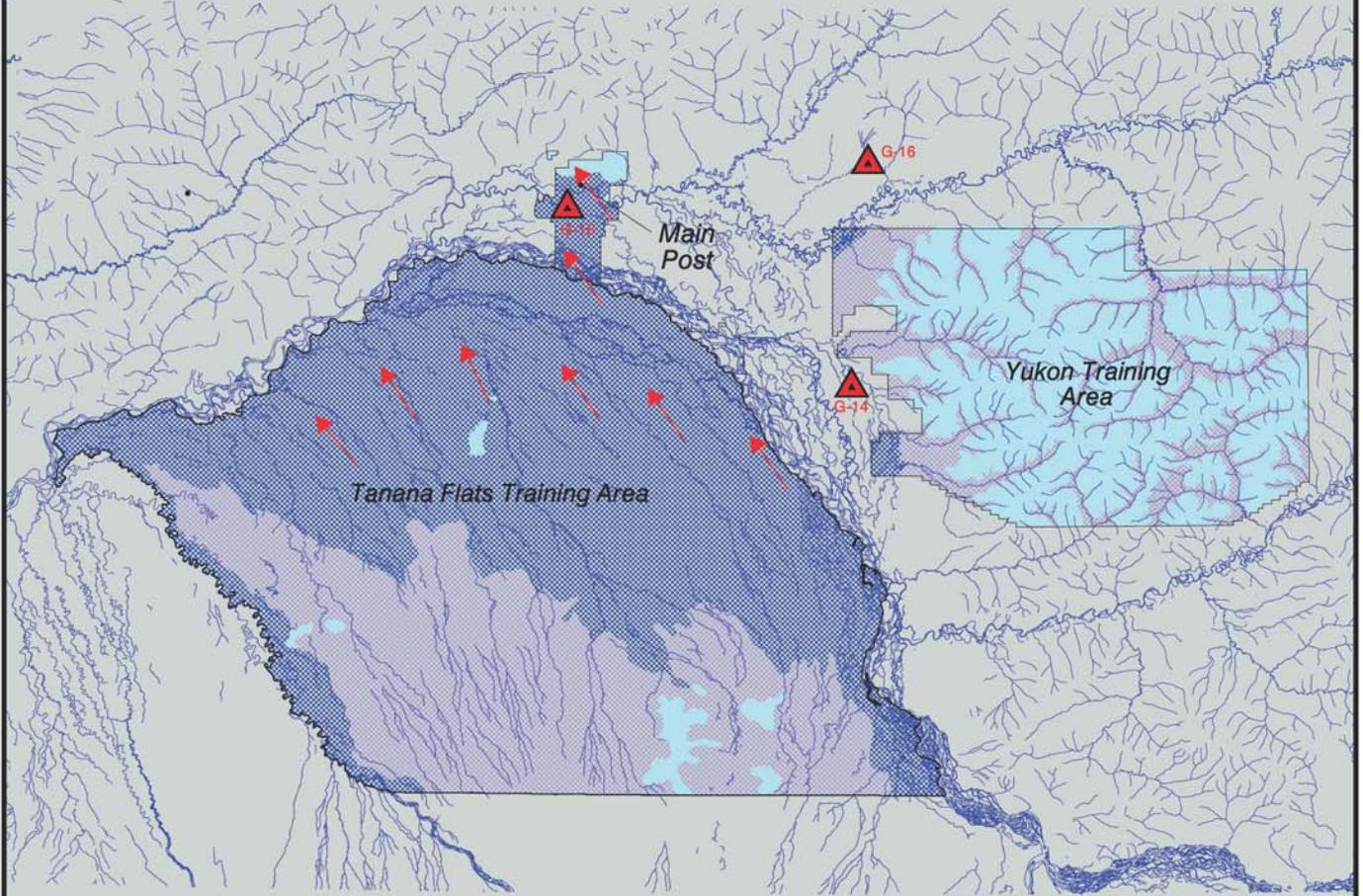
*Streams*

Source:  
U.S. Army Alaska 1999a



# Figure 3.6.a

## Groundwater Fort Wainwright



### Approximate Flow Rates

-  1,000 - 10,000 gpm  
Very large quantities available from floodplain deposits of the Tanana and Chena River
-  100 - 1,000 gpm  
Large quantities available from alluvial fan and glacial outwash deposits
-  <100 gpm  
Moderate to large quantities available from gravel deposits in creek valley bottoms

### Legend

-  Installation Boundary
-  Groundwater Quality Station
-  Approximate Flow Direction
-  Streams

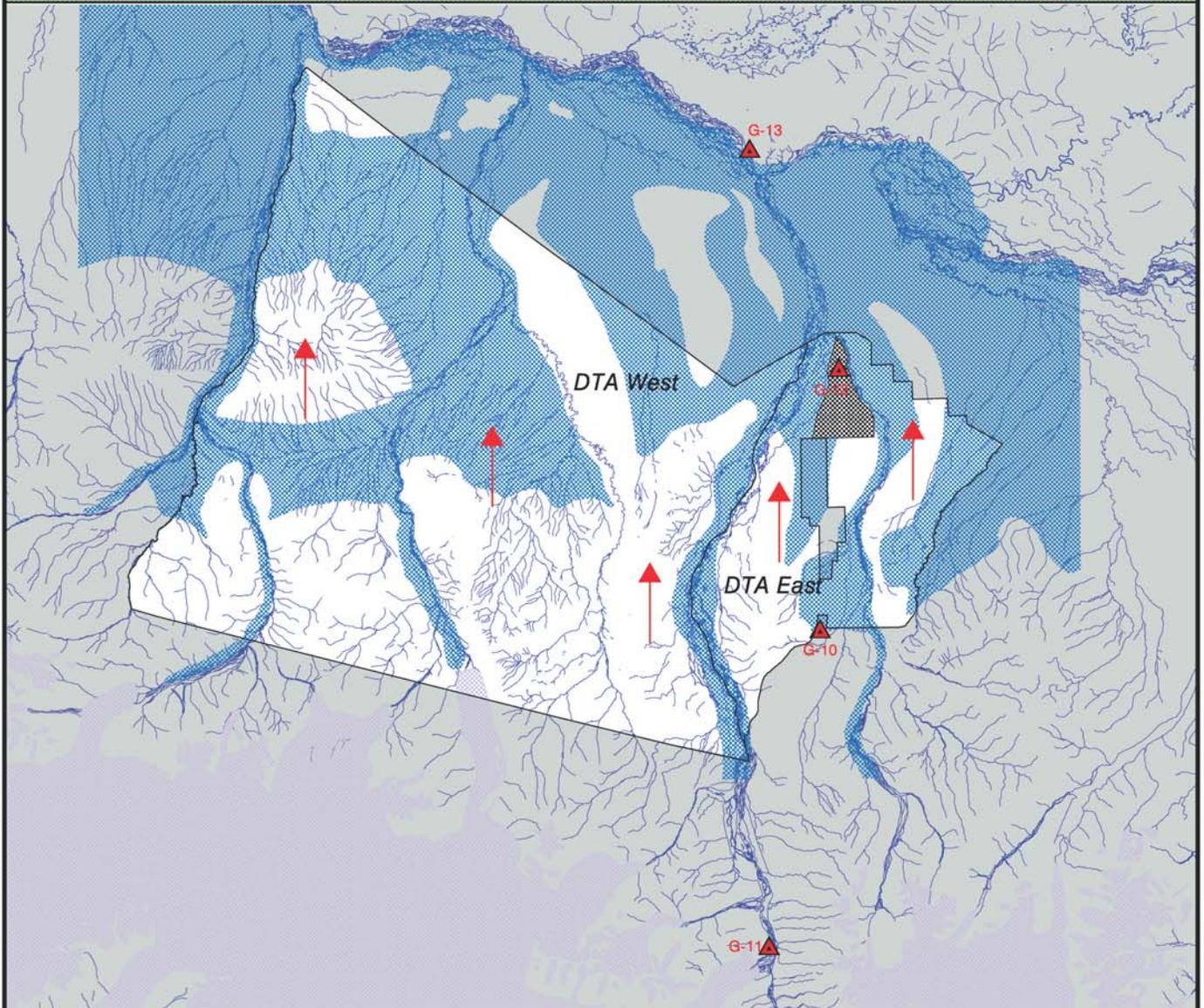
Source:  
U.S. Army Alaska 2002g  
Defense Mapping Agency  
Hydrographic/Topographic Center 1978

Scale: 1:700000  
10 0 10 Miles



Figure 3.6.b

Groundwater  
Donnelly Training Area



Legend

- Groundwater Quality Station
- Approximate Flow Direction
- Groundwater Potential of 1,000-3,000 Gallons per Minute
- Glaciers
- Installation Boundary
- Fort Greely
- Streams

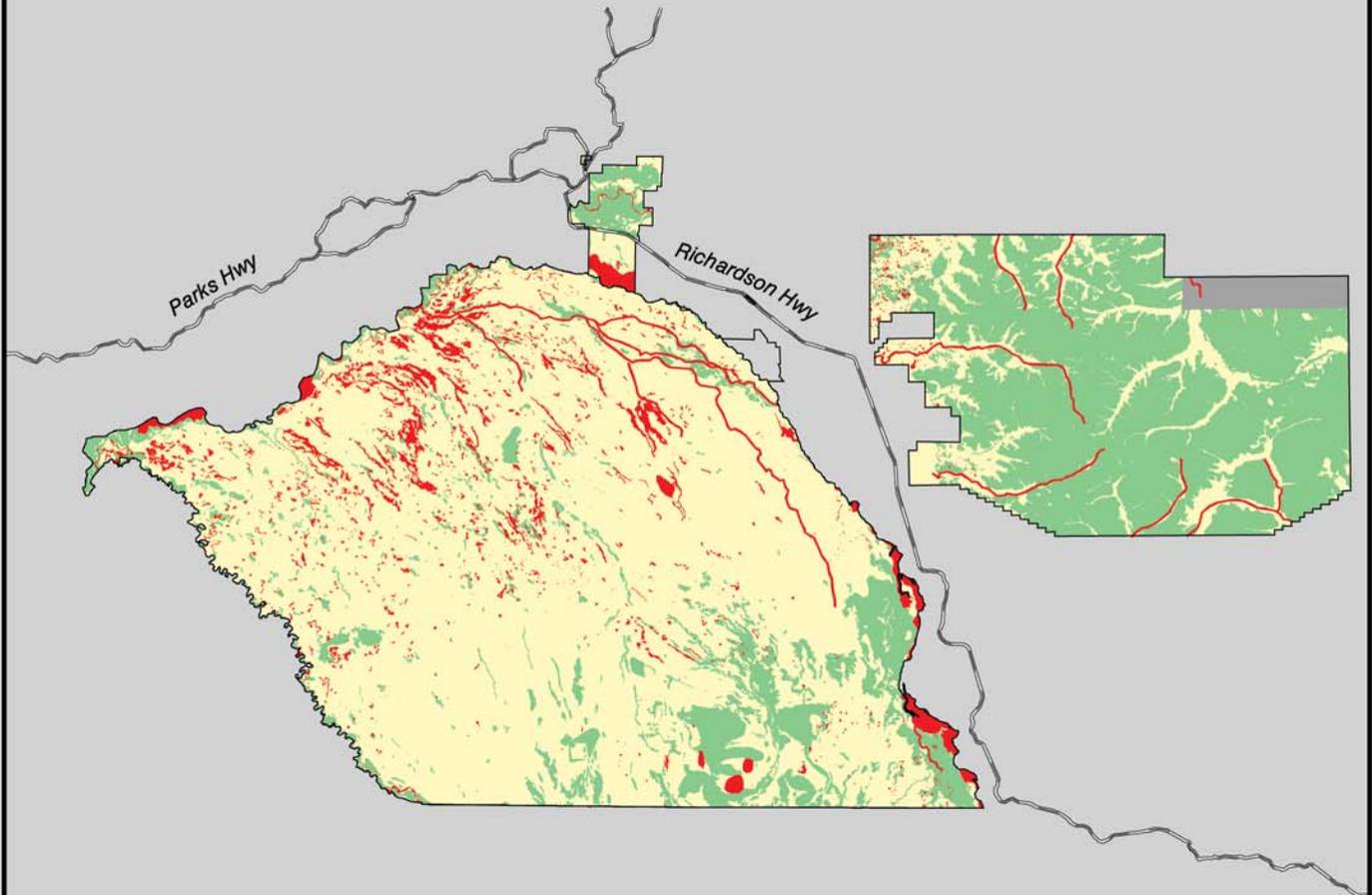
Source:  
U.S. Army Alaska 2002e

Scale: 1:600000  
10 0 10 Miles



Figure 3.7.a

*Environmental Limitation Areas  
Fort Wainwright*



Legend

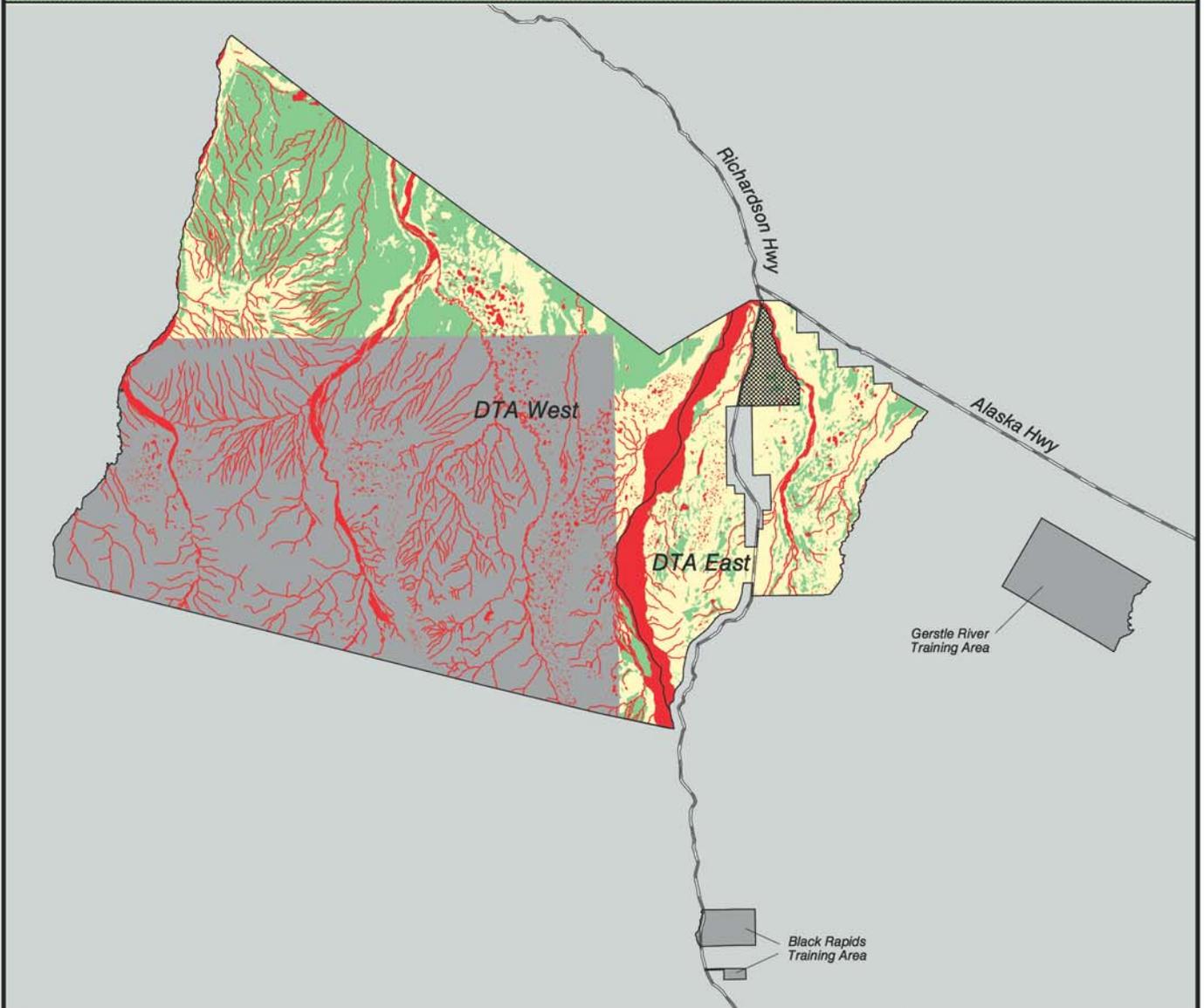


Source:  
USARAK Natural Resources 2003



Figure 3.7.b

*Environmental Limitation Areas  
Donnelly Training Area*



Legend

- |   |   |  |   |
|---|---|--|---|
|  Significant           |  Minor       |  None       |  No Data Available |
|  Installation Boundary |  Fort Greely |  Highways |   |

Source:  
USARAK Natural Resources 2003

Scale: 1:600000  
10 0 10 Miles



Figure 3.7.c

Environmental Limitation Areas  
Fort Richardson

Legend

-  Installation Boundary
-  Significant
-  Minor
-  None
-  No Data Available
-  Highways

Scale: 1:150,000

1 0 1 Mile



Source:

USARAK Natural Resources 2003

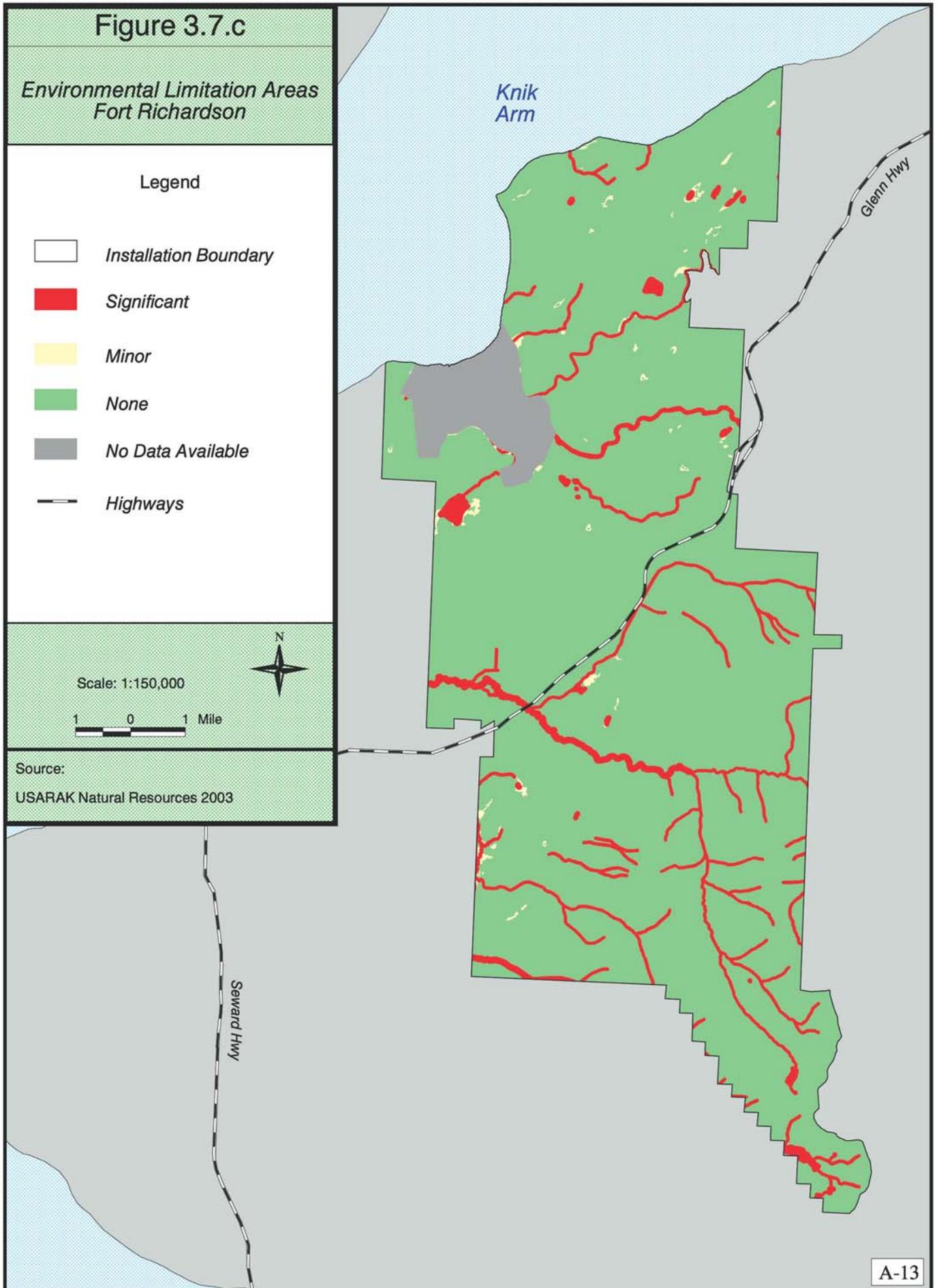
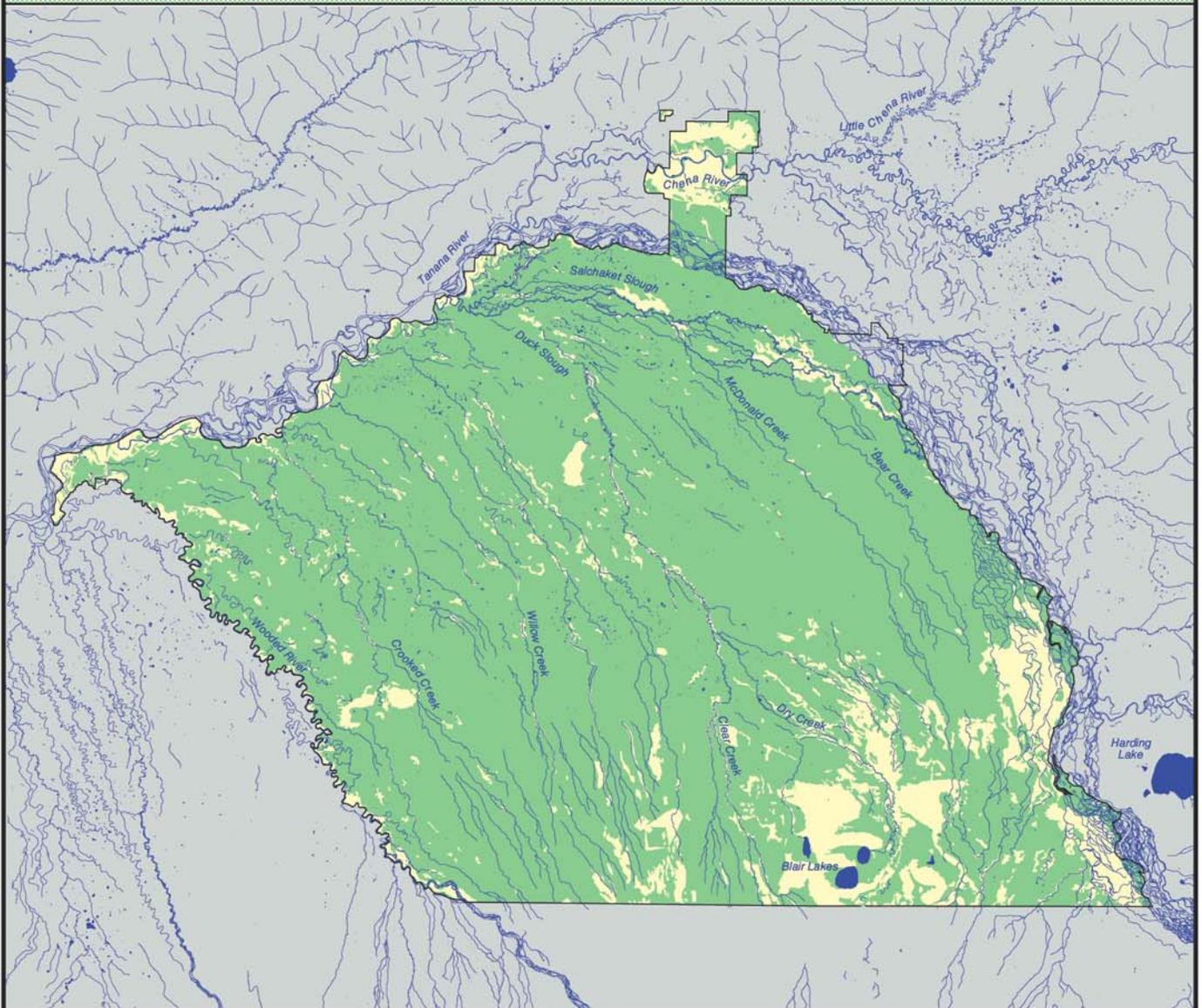


Figure 3.7.d

**Wetlands**  
*Fort Wainwright Main Post and Tanana Flats Training Area*



**Legend**

 Upland

 Wetland

 Streams

 Installation Boundary

 Lakes

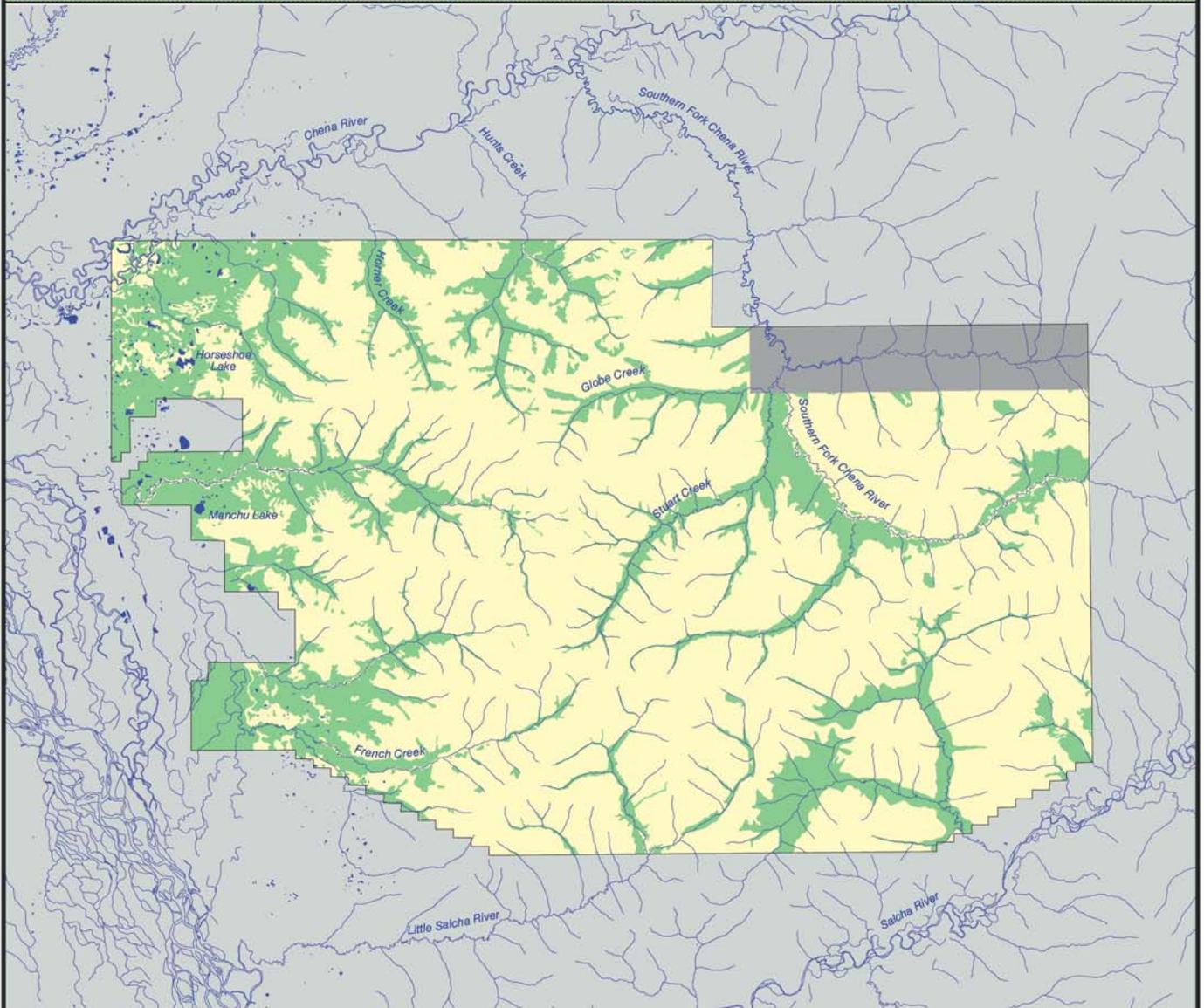
Source:  
U.S. Army Alaska 2002g

Scale: 1:500000  
10 0 10 Miles



Figure 3.7.e

### Wetlands Yukon Training Area



#### Legend

- |   |  |
|---|--|
|  Upland            |  Installation Boundary |
|  Wetland           |  Lakes                 |
|  No Data Available |  Streams               |

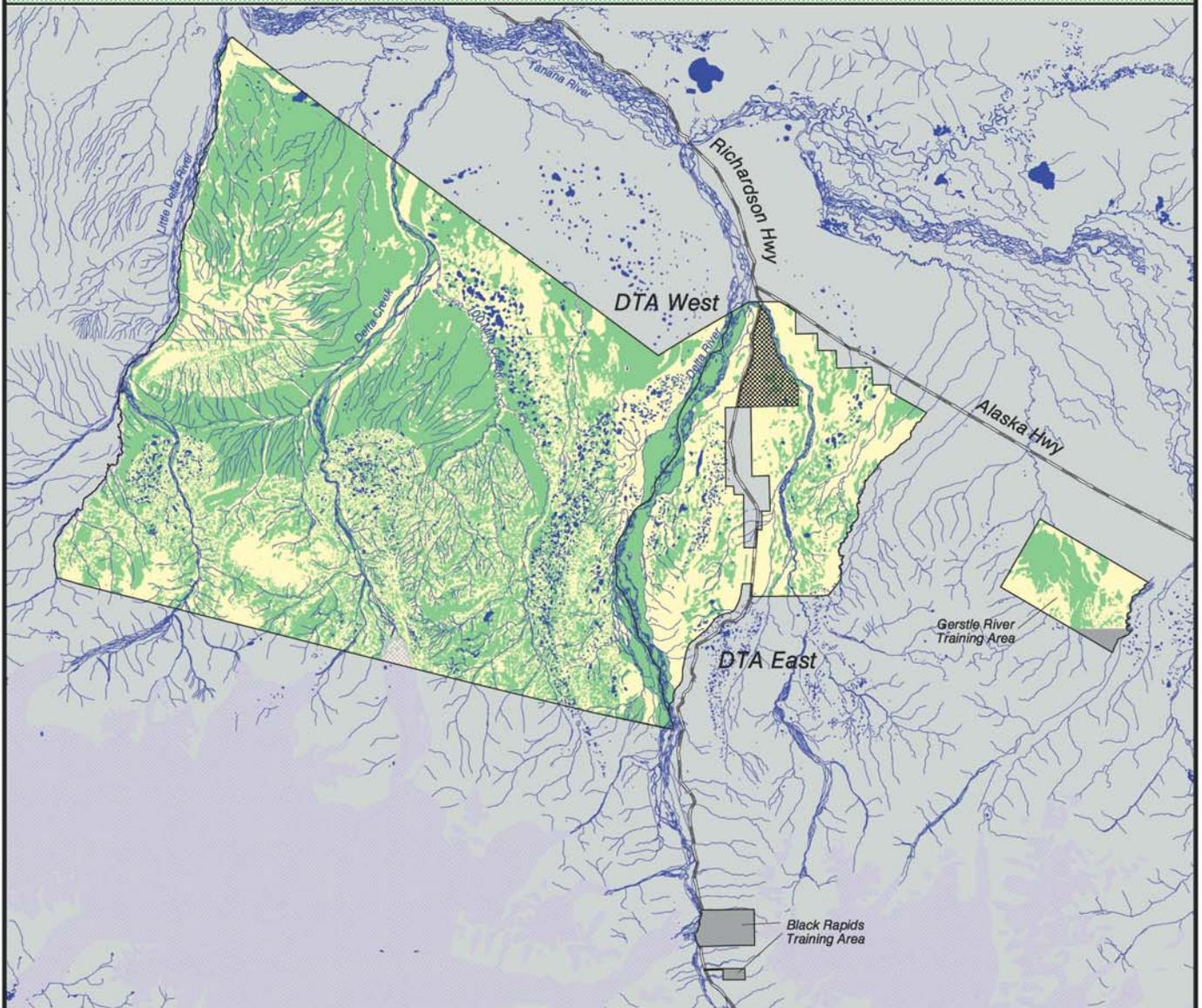
Source:  
U.S. Army Alaska 2002g

Scale: 1:300000



Figure 3.7.f

*Wetlands  
Donnelly Training Area*



**Legend**

- |   |   |  |
|---|---|--|
|  Upland            |  Installation Boundary |  Glaciers |
|  Wetland           |  Fort Greely           |  Lakes    |
|  No Data Available |  Highways              |  Streams  |

Source:  
U.S. Army Alaska 2002e



Figure 3.7.g

### Wetlands Fort Richardson

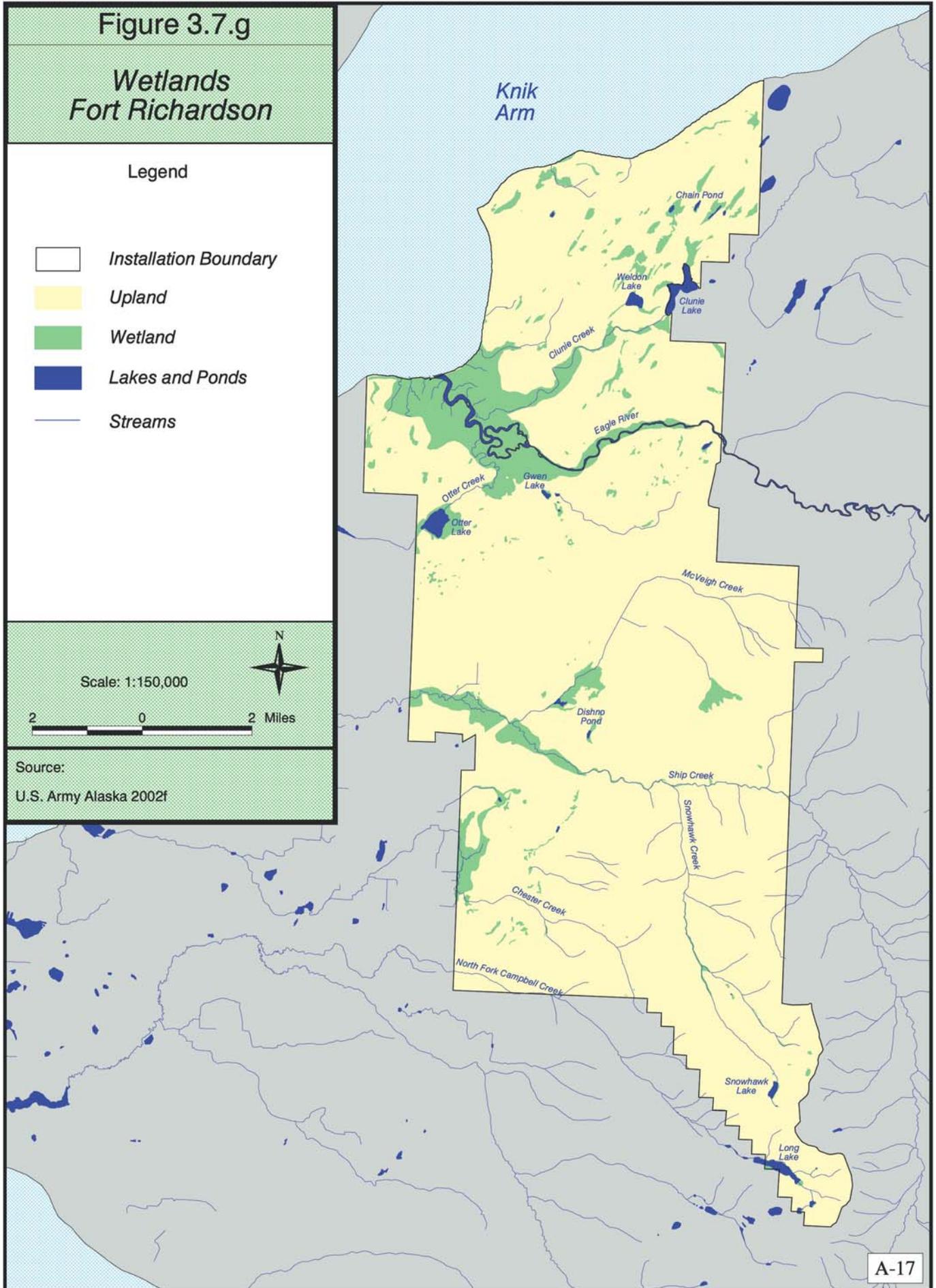
Legend

-  Installation Boundary
-  Upland
-  Wetland
-  Lakes and Ponds
-  Streams

Scale: 1:150,000

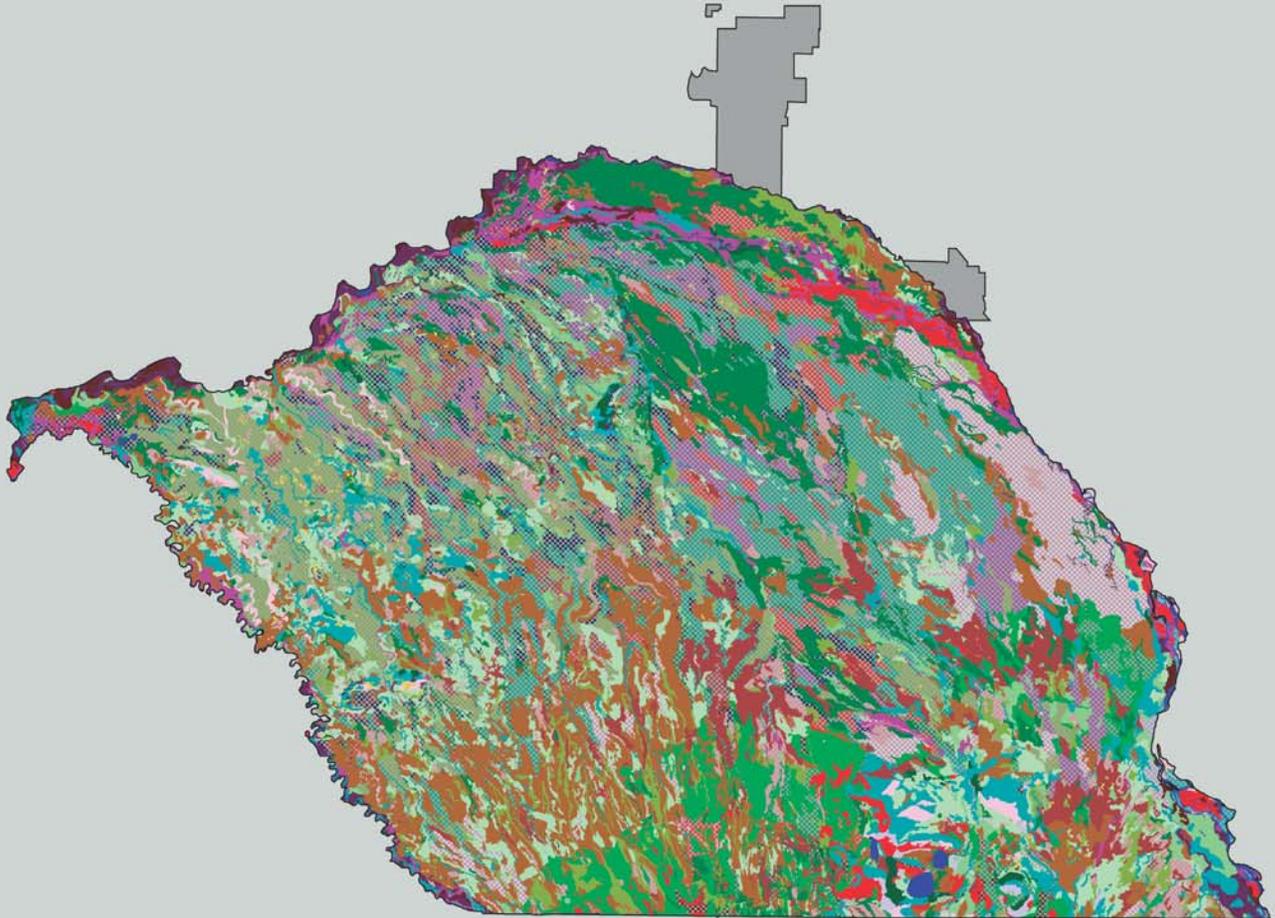


Source:  
U.S. Army Alaska 2002f



# Figure 3.8.a

## Ecotypes Tanana Flats Training Area



### Legend

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li> Installation Boundary</li> <li> Barren</li> <li> Bluejoint Meadow</li> <li> Broadleaf-Scrub Woodland</li> <li> Closed Balsam Poplar Forest</li> <li> Closed Balsam Poplar-White Spruce Forest</li> <li> Closed Black Spruce Forest</li> <li> Closed Black Spruce-White Spruce Forest</li> <li> Closed Low Scrub</li> <li> Closed Low Shrub Birch-Ericaceous Shrub</li> <li> Closed Paper Birch Forest</li> <li> Closed Paper Birch-Quaking Aspen Forest</li> <li> Closed Quaking Aspen Forest</li> <li> Closed Spruce-Paper Birch Forest</li> <li> Closed Spruce-Paper Birch-Quaking Aspen Forest</li> <li> Closed Tall Alder-Willow Shrub</li> </ul> | <ul style="list-style-type: none"> <li> Closed White Spruce Forest</li> <li> Midgrass-Shrub</li> <li> Mixed Conifer Woodland</li> <li> Open Black Spruce Forest</li> <li> Open Black Spruce-Tamarack Forest</li> <li> Open Black Spruce-White Spruce Forest</li> <li> Open Low Mixed Shrub-Sedge Tussock Bog</li> <li> Open Low Scrub (post burn, disturbance)</li> <li> Open Low Willow-Graminoid Shrub Bog</li> <li> Open Paper Birch Forest</li> <li> Open Paper Birch-Quaking Aspen Forest</li> <li> Open Quaking Aspen-Spruce Forest</li> <li> Open Spruce-Paper Birch Forest</li> <li> Open Tall Shrub Swamp</li> <li> Open White Spruce Forest</li> <li> Paludification Complex, (wet forb-sedge fen)</li> </ul> | <ul style="list-style-type: none"> <li> Partially Vegetated</li> <li> Riverine Complex</li> <li> Slope Drainage Complex</li> <li> Subarctic Lowland Herb Bog Meadow</li> <li> Subarctic Lowland Sedge Wet Meadow</li> <li> Subarctic Lowland Sedge-Herb Bog Meadow</li> <li> Subarctic Lowland Sedge-Moss Bog Meadow</li> <li> Thermokarst Complex, black spruce-collapse scar</li> <li> Thermokarst Complex, closed paper birch-collapse</li> <li> Thermokarst Complex, mixed spruce-paper birch-bog</li> <li> Thermokarst Complex, open birch-shrub birch-fen</li> <li> Thermokarst Complex, open birch-shrub-bog</li> <li> Thermokarst Complex, open birch-shrub swamp-fen</li> <li> Water</li> <li> No Data Available</li> </ul> |
|---|---|--|

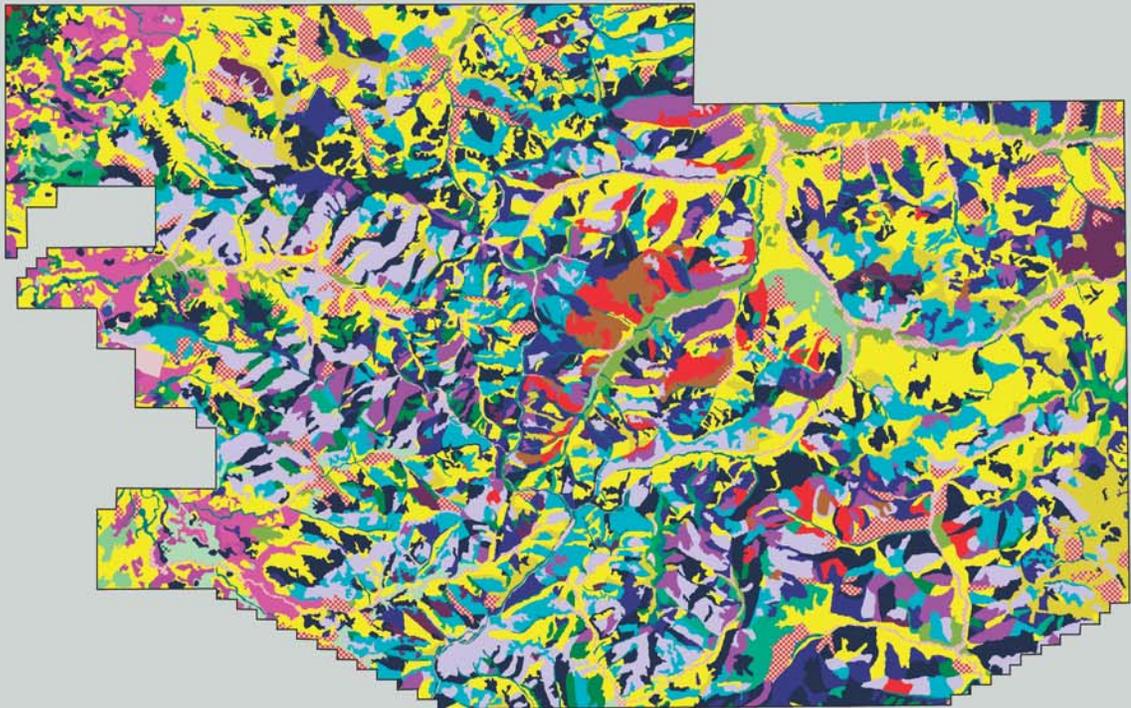
Source:  
Jorgenson et al. 1999

Scale: 1:500000



Figure 3.8.b

Ecotypes  
Yukon Training Area



Legend

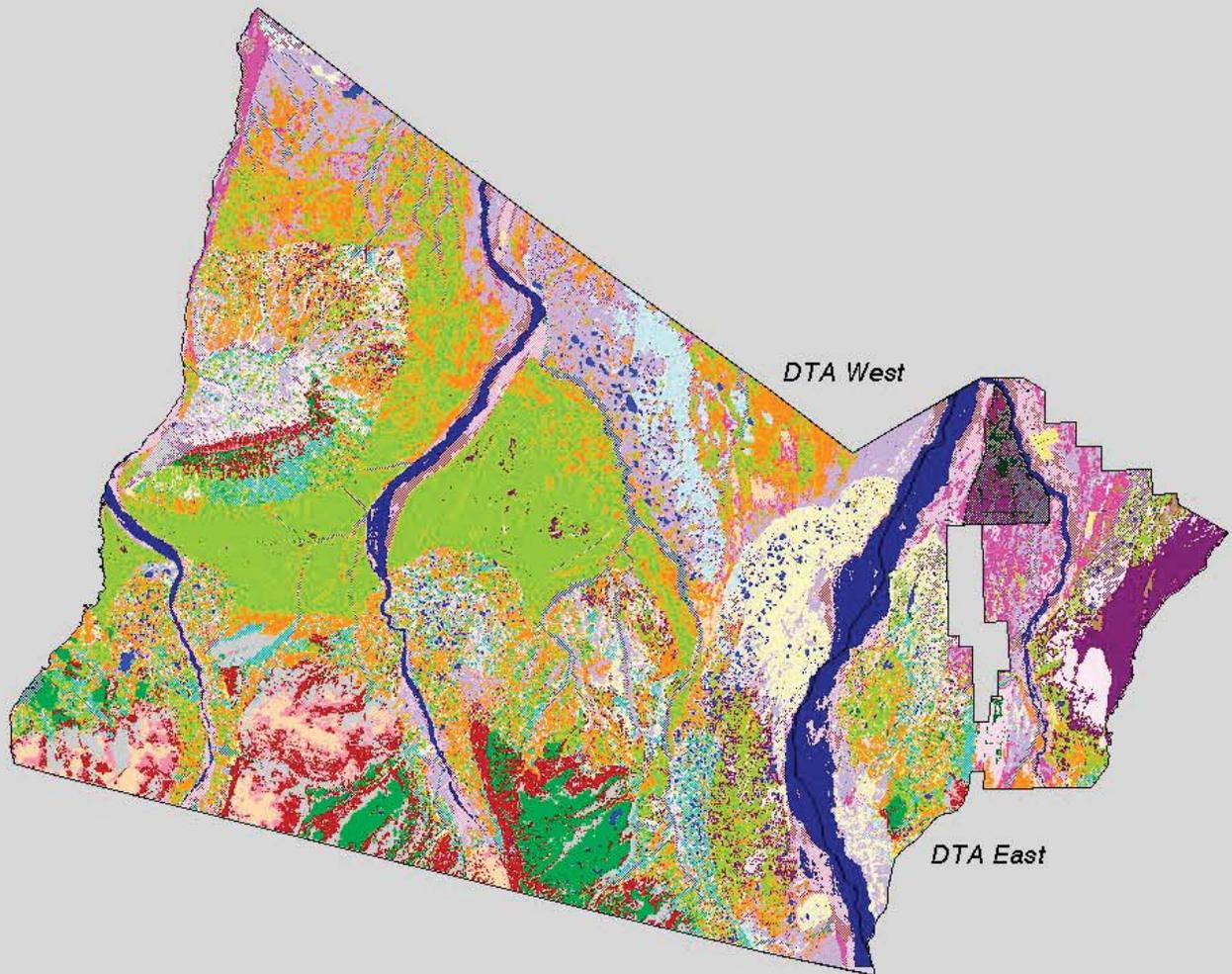
- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li> Installation Boundary</li> <li> Barren</li> <li> Bluejoint Meadow</li> <li> Broadleaf-Scrub Woodland</li> <li> Closed Balsam Poplar Forest</li> <li> Closed Balsam Poplar-White Spruce Forest</li> <li> Closed Black Spruce Forest</li> <li> Closed Low Scrub</li> <li> Closed Low Shrub Birch-Ericaceous Shrub</li> <li> Closed Paper Birch Forest</li> <li> Closed Paper Birch-Quaking Aspen Forest</li> </ul> | <ul style="list-style-type: none"> <li> Closed Spruce-Paper Birch Forest</li> <li> Closed Spruce-Paper Birch-Quaking Aspen Forest</li> <li> Closed Tall Alder-Willow Shrub</li> <li> Dryas-Lichen Dwarf Shrub Tundra</li> <li> Lowland Eolian Complex</li> <li> Mixed Conifer Woodland</li> <li> Open Black Spruce (South-facing)</li> <li> Open Black Spruce Forest</li> <li> Open Black Spruce-White Spruce Forest</li> <li> Open Low Mixed Shrub-Sedge Tussock Bog</li> <li> Open Low Scrub (post burn, disturbance)</li> </ul> | <ul style="list-style-type: none"> <li> Open Paper Birch Forest</li> <li> Open Paper Birch-Quaking Aspen Forest</li> <li> Open Spruce-Paper Birch Forest</li> <li> Partially Vegetated</li> <li> Riverine Complex</li> <li> Slope Drainage Complex</li> <li> Subarctic Lowland Sedge Wet Meadow</li> <li> Subarctic Lowland Sedge-Herb Bog Meadow</li> <li> Subarctic Lowland Sedge-Moss Bog Meadow</li> <li> Water</li> </ul> |
|--|--|--|

Source:  
U.S. Army Alaska 1999a



# Figure 3.8.c

## Ecotypes Donnelly Training Area



### Legend

- |                                       |  |   |
|---------------------------------------|--|---|
| Installation Boundary                 | Lowland Low Scrub - Disturbed          | Riverine Moist Low and Tall Scrub           |
| Fort Greely                           | Lowland Moist Tall Scrub               | Riverine Moist Mixed Forest                 |
| Alpine Rocky Dry Barrens              | Lowland Tussock Scrub Bog              | Riverine Moist Needleleaf Forest            |
| Alpine Rocky Dry Dwarf Scrub          | Lowland Wet Broadleaf Forest           | Upland Moist Broadleaf Forest               |
| Alpine Rocky Moist Low Scrub          | Lowland Wet Low Scrub                  | Upland Moist Low and Tall Scrub             |
| Alpine Wet Low Scrub                  | Lowland Wet Mixed Forest               | Upland Moist Low and Tall Scrub - Disturbed |
| Alpine Wet Tussock Meadow             | Lowland Wet Needleleaf Forest          | Upland Moist Mixed Forest                   |
| Human Disturbed Barrens               | Ponds and Lakes                        | Upland Moist Needleleaf Forest              |
| Human Disturbed Scrub                 | Riverine Gravelly Barrens              | Upland Rocky Dry Broadleaf Forest           |
| Lacustrine Moist Meadow               | Riverine Gravelly Dry Broadleaf Forest | Upland Rocky Dry Low Scrub                  |
| Lowland Gravelly Dry Broadleaf Forest | Riverine Gravelly Dry Dwarf Scrub      | Upland Rocky Dry Meadow                     |
| Lowland Gravelly Moist Low Scrub      | Riverine Gravelly Needleleaf Forest    | Upland Wet Needleleaf Forest                |
| Lowland Gravelly Needleleaf Forest    | Riverine Moist Broadleaf Forest        | Upper Perennial River                       |

Source:  
U.S. Army Alaska 1999a

Scale: 1:500000



Figure 3.8.d

# Ecotypes Fort Richardson

## Legend

-  Installation Boundary
-  Alpine Lake
-  Alpine Rocky Dry Barrens
-  Alpine Rocky Dry Dwarf Scrub
-  Alpine Rocky Moist Dwarf Scrub
-  Alpine Rocky Moist Low Scrub
-  Coastal Lake and Sedge Marsh
-  Coastal Loamy Wet Barrens
-  Coastal Loamy Wet Low Scrub
-  Coastal Loamy Wet Meadow, brackish
-  Coastal Loamy Wet Meadow, slightly brackish
-  Coastal Sandy Moist Meadow
-  Human Modified Barrens
-  Human Modified Complex
-  Human Modified Forest
-  Human Modified Meadow
-  Human Modified Scrub
-  Human Modified Waterbodies
-  Lowland Bog Meadow
-  Lowland Gravelly Moist Broadleaf Forest
-  Lowland Gravelly Moist Mixed Forest
-  Lowland Gravelly Moist Needleleaf Forest
-  Lowland Gravelly Moist Tall Scrub
-  Lowland Lake and Aquatic Forb
-  Lowland Loamy Moist Meadow
-  Lowland Needleleaf Forest Bog
-  Lowland Scrub Bog
-  Nearshore Water
-  Riverine Gravelly Moist Barrens
-  Riverine Gravelly Moist Broadleaf Forest
-  Riverine Gravelly Moist Mixed Forest
-  Riverine Gravelly Moist Needleleaf Forest
-  Riverine Gravelly Moist Tall Scrub
-  Riverine Loamy Wet Tall Scrub
-  Rivers and Streams
-  Subalpine Rocky Moist Broadleaf Forest
-  Subalpine Rocky Moist Low Scrub
-  Subalpine Rocky Moist Meadow
-  Subalpine Rocky Moist Needleleaf Forest
-  Subalpine Rocky Moist Tall Scrub
-  Upland Rocky Barrens
-  Upland Rocky Dry Broadleaf Forest
-  Upland Rocky Dry Mixed Forest
-  Upland Rocky Moist Broadleaf Forest
-  Upland Rocky Moist Mixed Forest
-  Upland Rocky Moist Needleleaf Forest
-  Upland Rocky Moist Tall Scrub

Scale: 1:150,000

2 0 2 Miles

Source:

Jorgenson et al. 2002

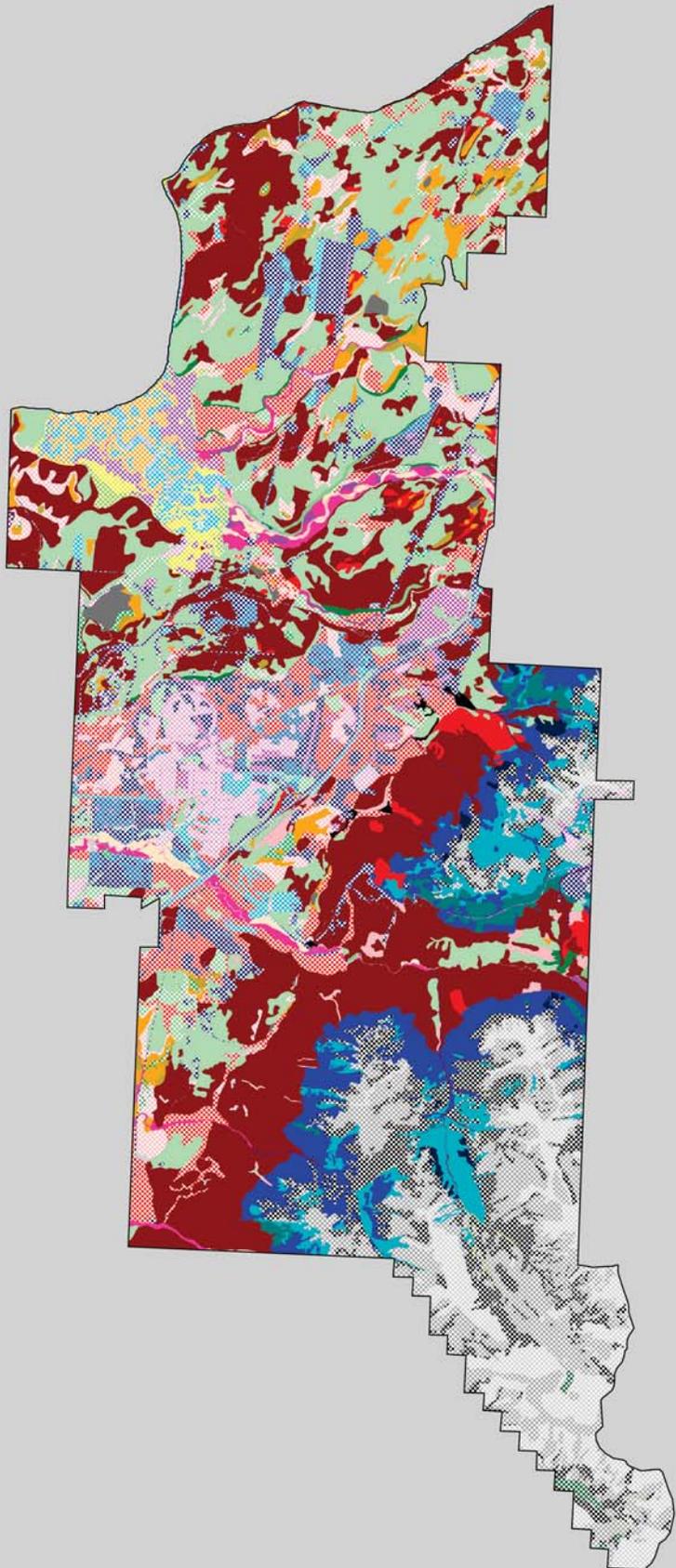
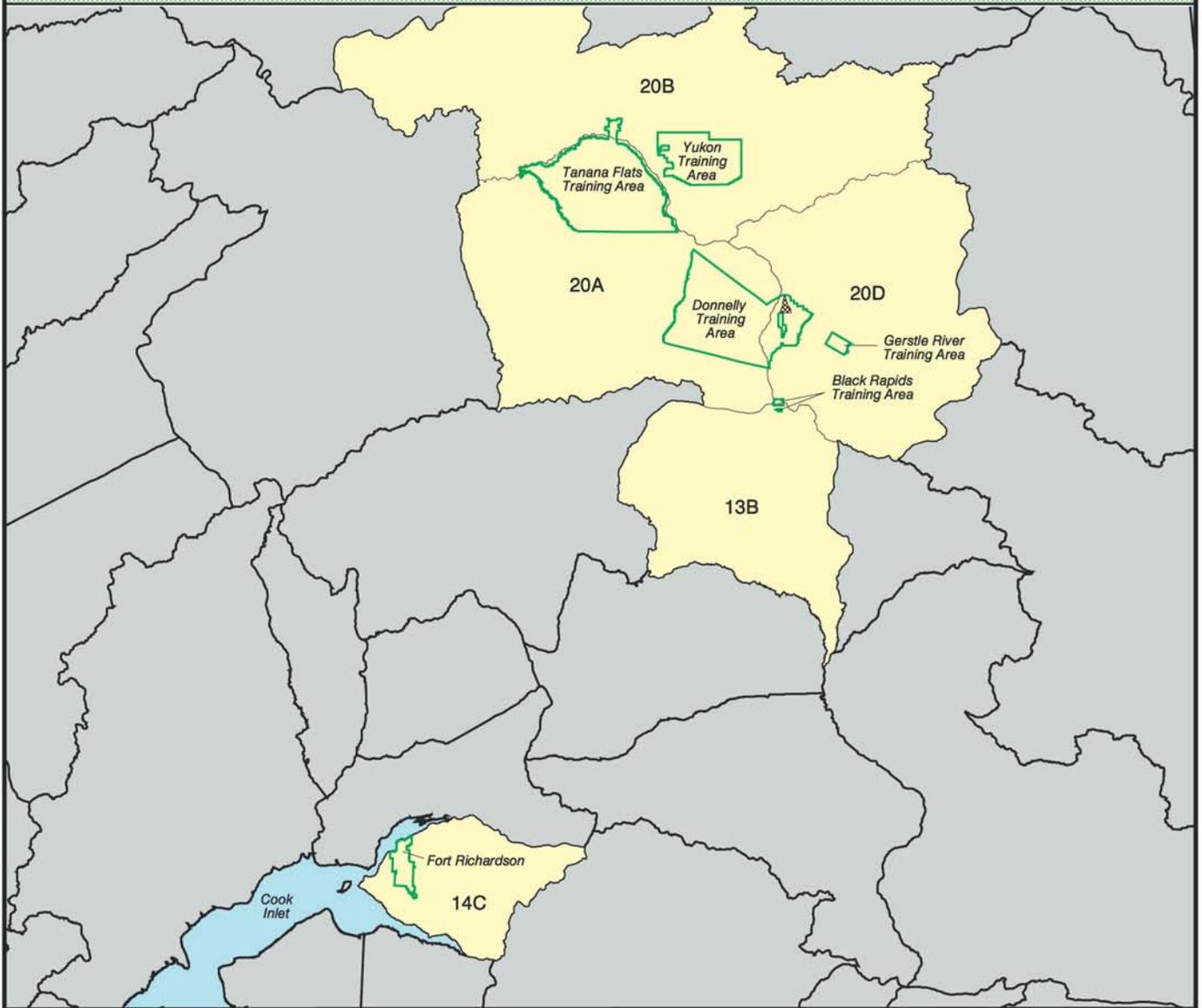


Figure 3.9.a

## Game Management Units Overlapping USARAK Lands



### Legend



Installation Boundary



Fort Greely



Game Management Subunit Boundary

Source:  
ADFG 2003a

100

Scale: 1:3500000

0

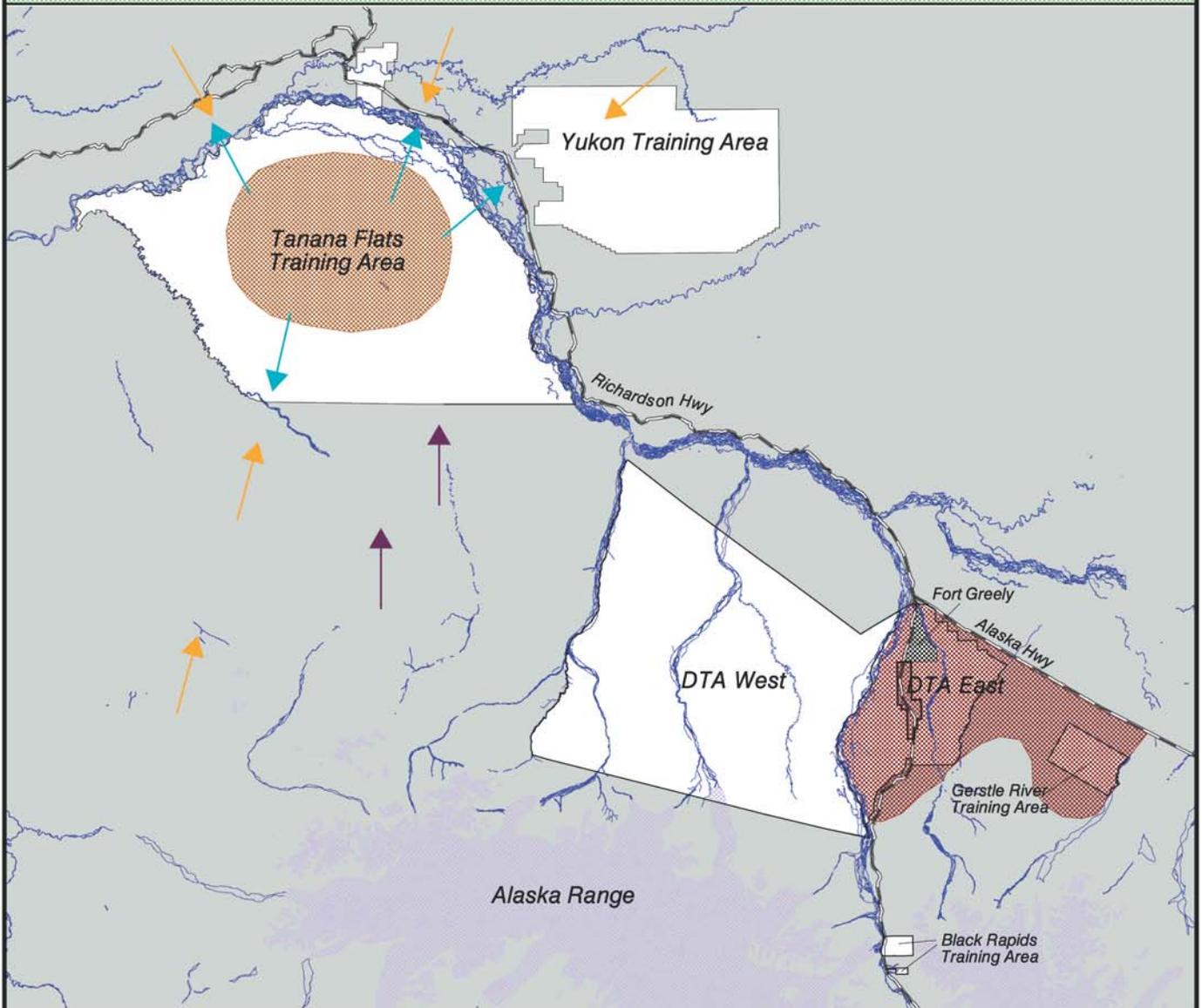
100 Miles



A-22

Figure 3.9.b

Moose Concentration Areas in Interior Alaska



Legend

- |   |                                     |          |
|---|-------------------------------------|----------|
| Installation Boundary   | Spring Migration to Calving Areas   | Glaciers |
| Tanana Flats Moose Concentrated Calving Area <sup>1</sup>       | Fall / Winter Movement <sup>2</sup> | Streams  |
| Unit 20D Moose High Density Area $\geq 4$ Moose per square mile | Deep Snow Movement <sup>3</sup>     | Highways |

<sup>1</sup> Note that a large portion of GMU 20A herd remains on Tanana Flats throughout the year.

<sup>2</sup> Some moose migrate to outlying hills during fall and winter.

<sup>3</sup> During heavy snow depths moose move from foothills of Alaska Range toward Tanana Flats.

Source:

Don Young (ADFG), personal communication 2003  
 Steve DuBois (ADFG), personal communication 2003

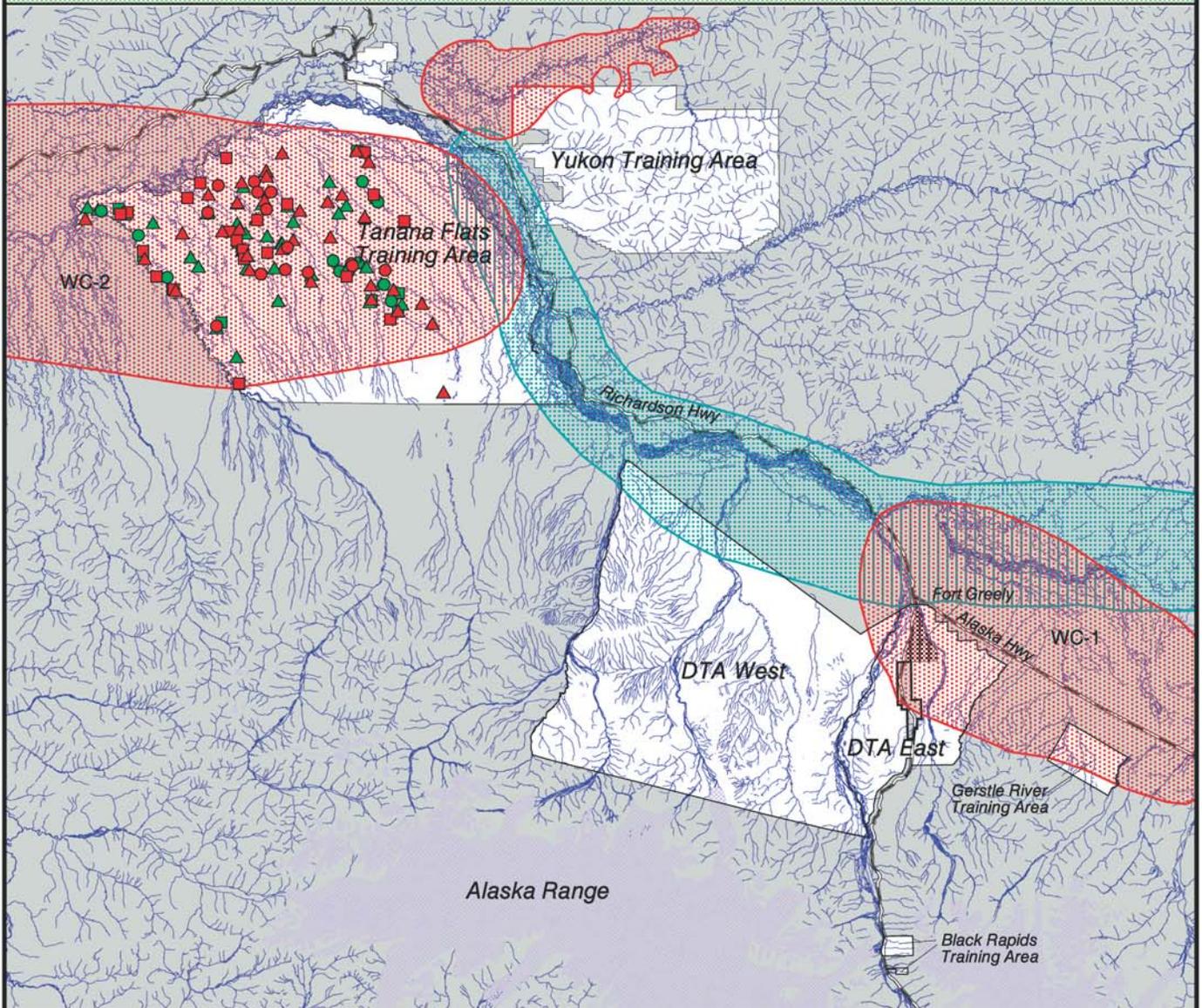
Scale: 1:1100000

20 0 20 Miles



# Figure 3.9.c

## Waterfowl and Raptor Concentration Areas and Trumpeter Swan Nest Sites in Interior Alaska



### Legend

- |  |  |  |                               |
|--|--|--|-------------------------------|
|  | Waterfowl Concentration Areas (WC1, WC2) |  | Lone Swans 2003               |
|  | Raptor Concentration / Migration Areas   |  | Swan Pairs Without Young 2003 |
|  | Installation Boundary                    |  | Swan Pairs With Young 2003    |
|  | Glaciers                                 |  | Lone Swans 2002               |
|  | Streams                                  |  | Swan Pairs Without Young 2002 |
|  | Highways                                 |  | Swan Pairs With Young 2002    |

Source:  
 Tony Payne (USARAK), personal communication 2003  
 U.S. Army Alaska 2003, 1999  
 U.S. Air Force 1995

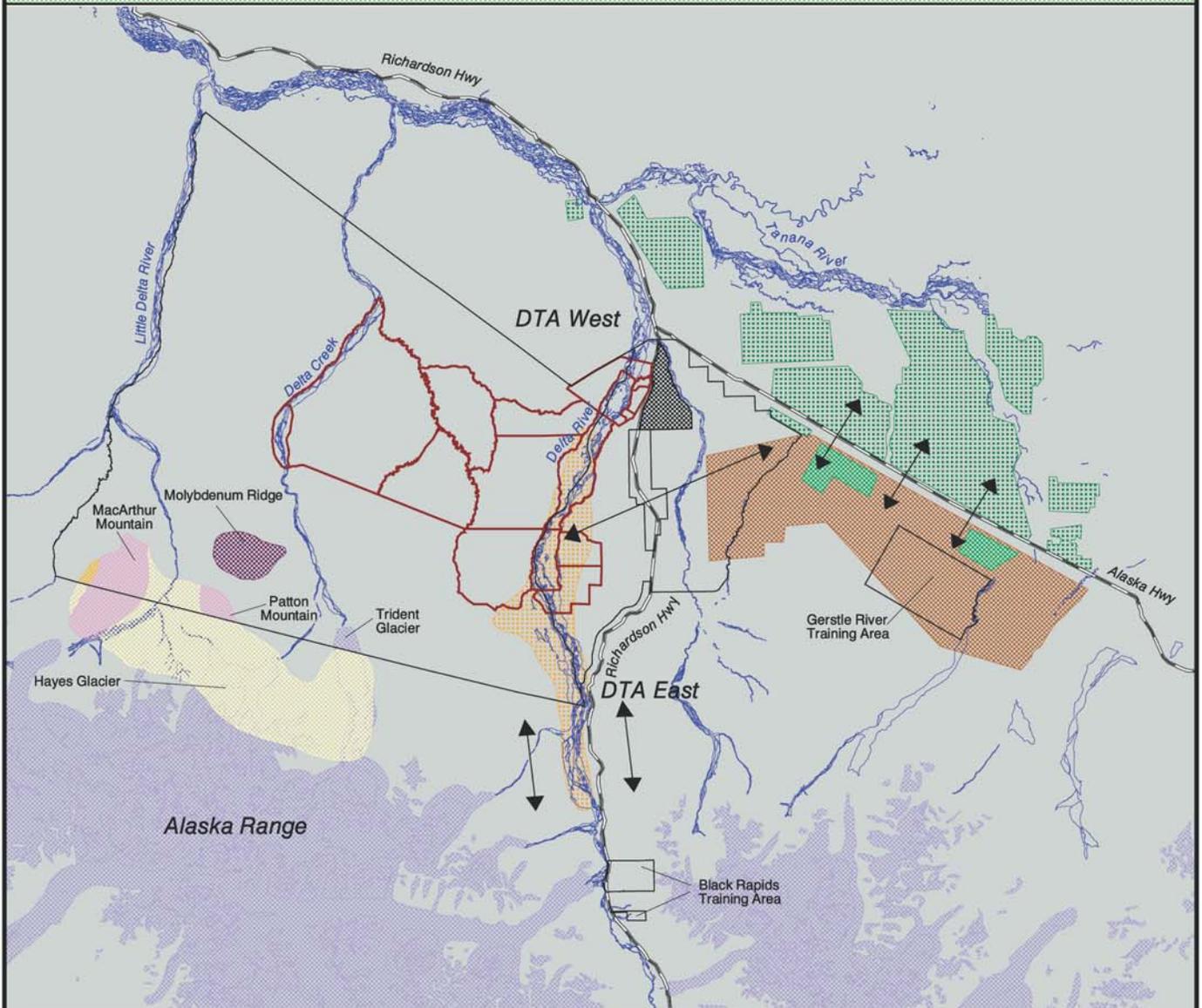
Scale: 1:1100000

20 0 20 Miles



Figure 3.9.d

*Bison and Dall Sheep Concentration and Migration Routes  
Donnelly Training Area*

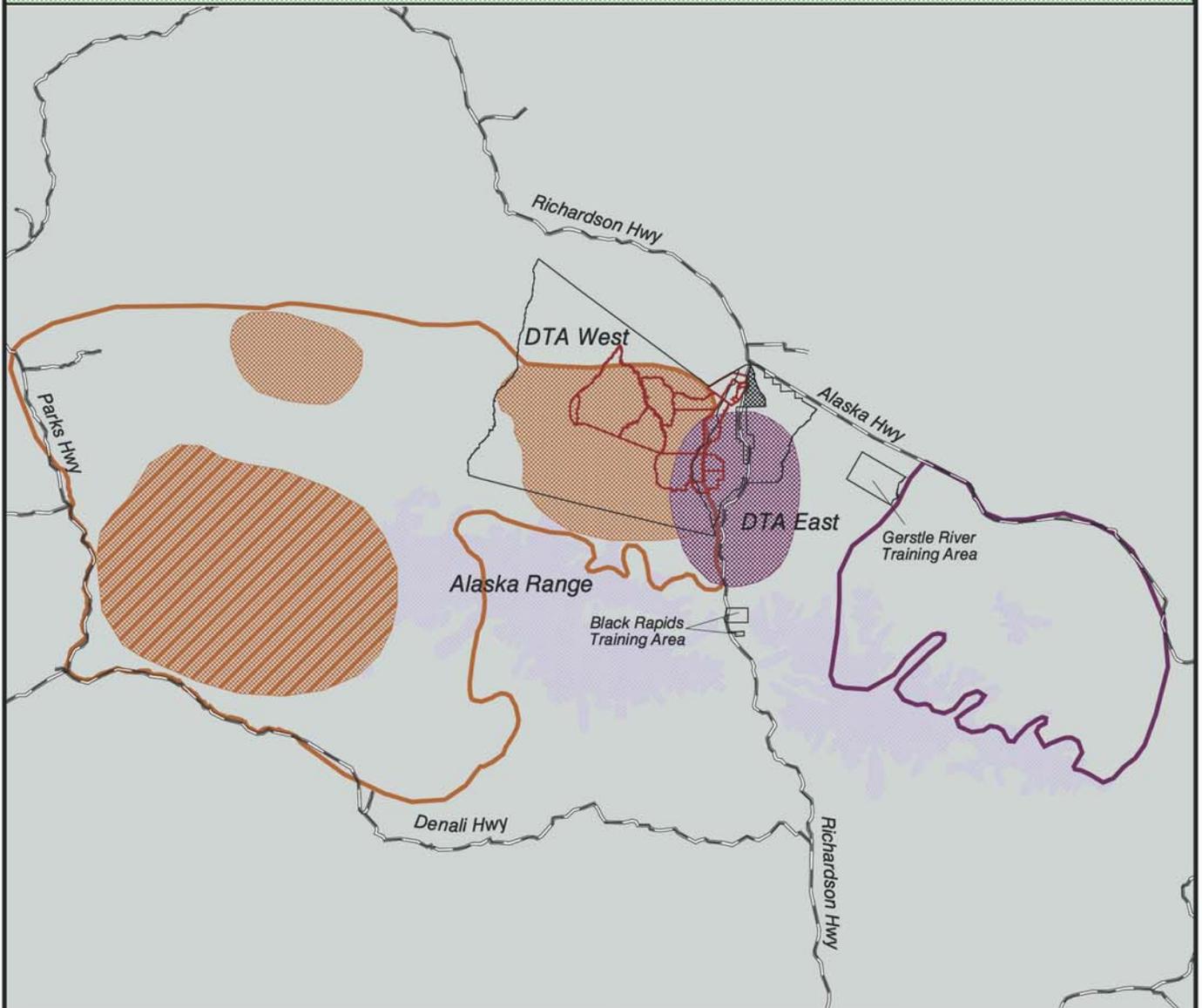


Source:  
DuBois and Rogers 2000  
Spiers and Heimer 1990  
Steve DuBois (ADFG), personal communication 2003



Figure 3.9.e

*Distribution of Delta and Macomb Caribou Herds  
Donnelly Training Area*



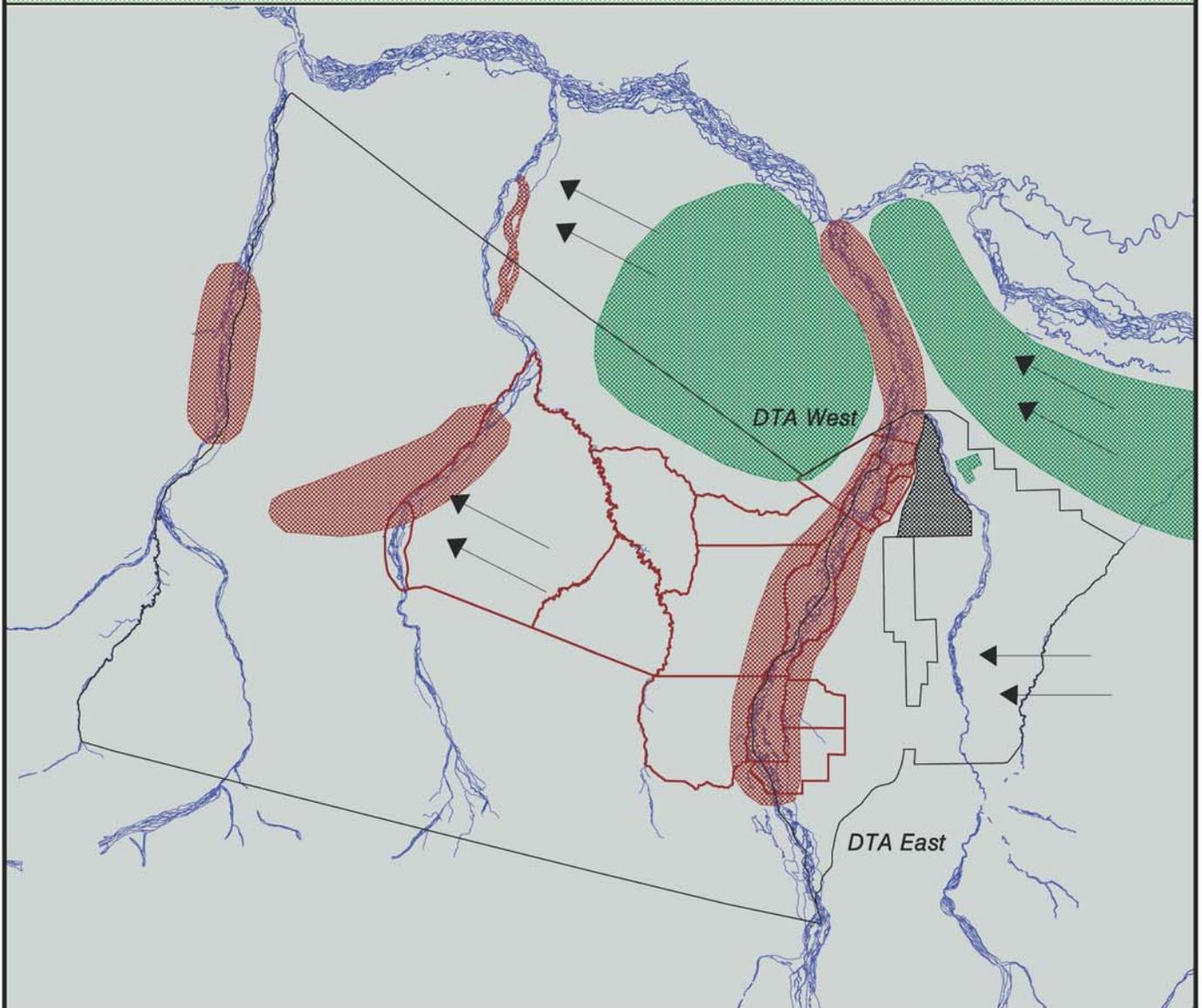
Source:  
ADFG 2003b  
Steve DuBois (ADFG), personal communication 2003

Scale: 1:1500000  
10 0 10 Miles



Figure 3.9.f

*Sandhill Crane Habitat and Migration Routes  
Donnelly Training Area*



Legend

-  Spring Flight Routes
-  Sandhill Crane Roosting Areas
-  Feeding Areas (primarily open areas within delineated areas)
-  Installation Boundary
-  Impact Area Boundary
-  Fort Greely
-  Streams

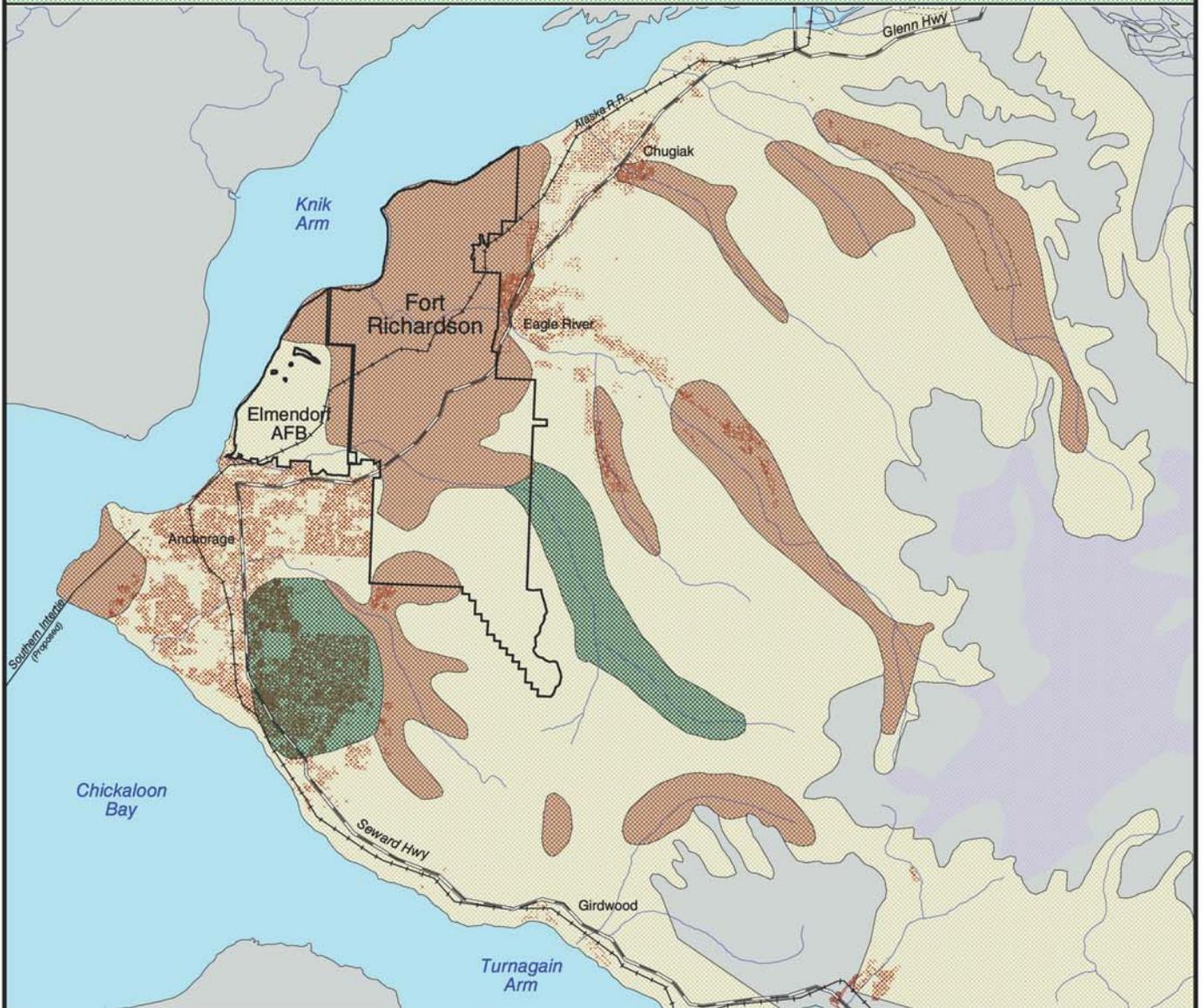
Source:  
Anderson et al. 2000  
U.S. Army Alaska 1999a

Scale: 1:500000  
10 0 10 Miles



Figure 3.9.g

*Moose Concentration Areas in Anchorage Area*



Legend

- |  |  |
|--|--|
|  <i>Installation Boundary</i>                 |  <i>Highways</i>  |
|  <i>General Distribution Areas</i>            |  <i>Railroads</i> |
|  <i>Calving or Winter Concentration Areas</i> |  <i>Rivers</i>    |
|  <i>Winter Concentration Areas</i>            |  <i>Glaciers</i>  |

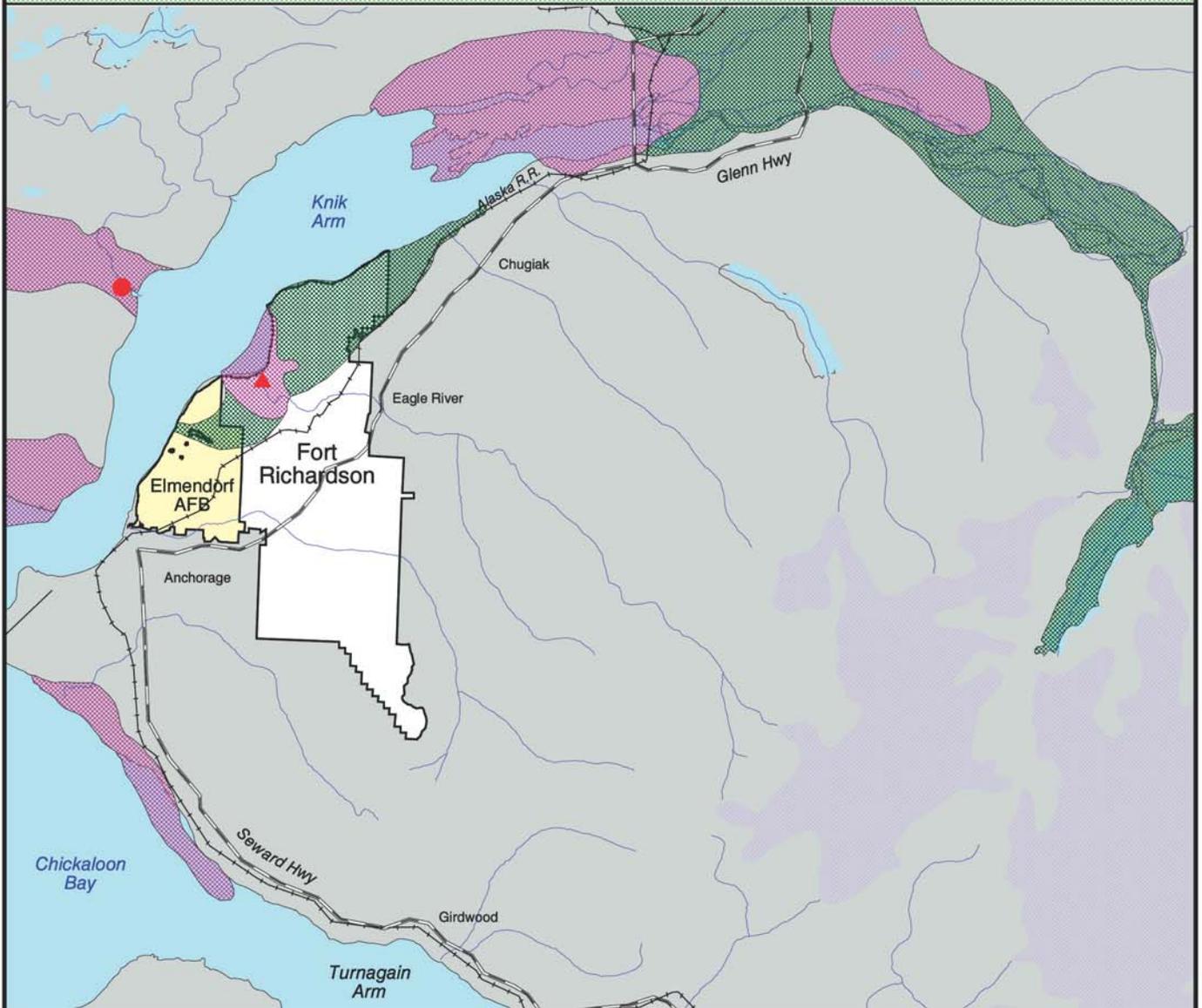
Source:  
ADFG 1985b

Scale: 1:400000



Figure 3.9.h

Waterfowl Concentration Areas and Trumpeter Swan Nest Sites in Anchorage Area



Legend

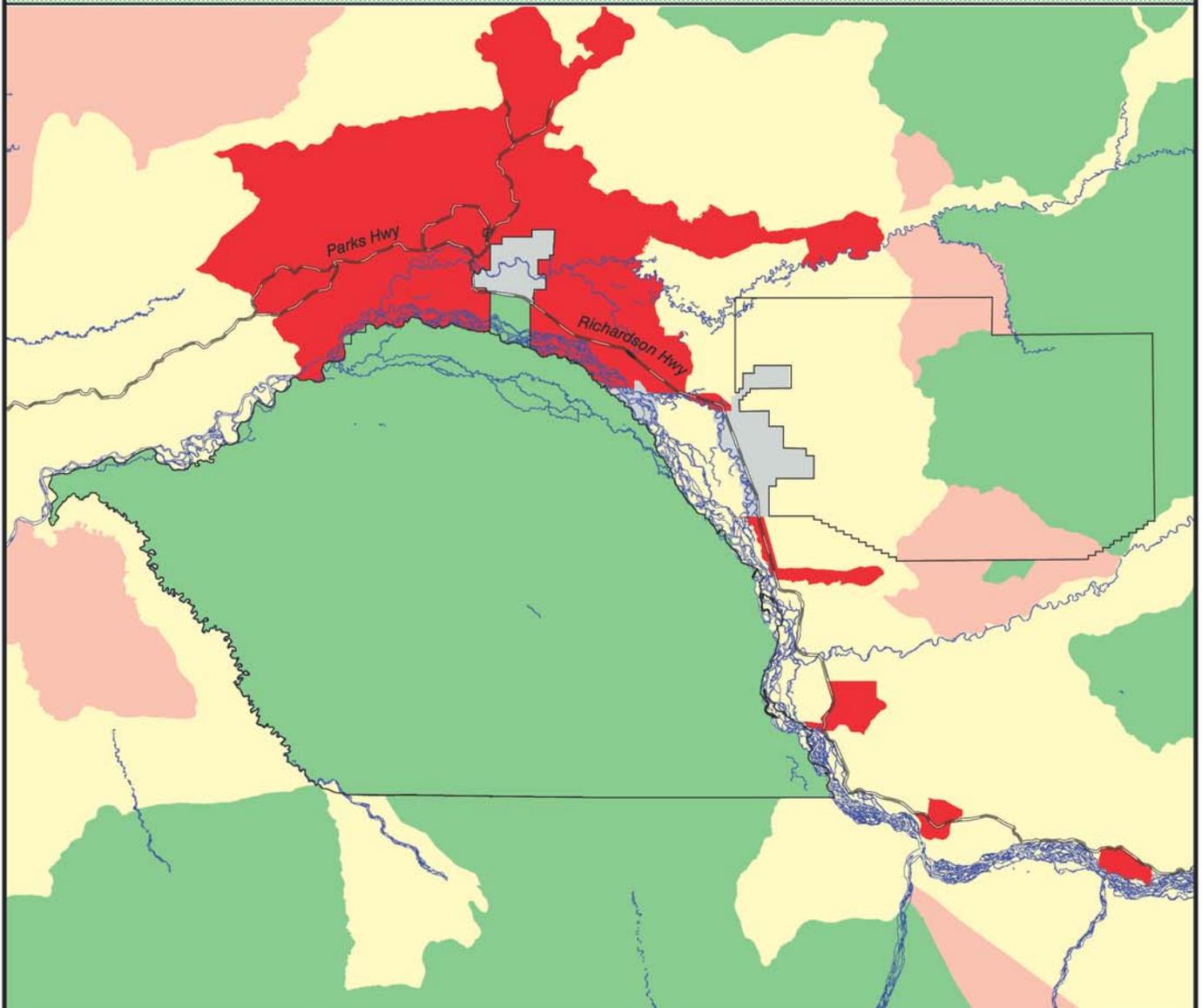
-  Installation Boundary
-  General Distribution Areas of Ducks, Geese or Swans
-  Seasonal Concentration Areas
-  Glaciers
- Trumpeter Swan Nest Sites <sup>1</sup>**
-  Pair Observation
-  Flock Observation
-  Highways
-  Railroads
-  Rivers

Source:  
ADFG 1985a  
<sup>1</sup>USFWS 2000 Survey



Figure 3.11.a

Fire Management Areas  
Fort Wainwright



Legend

- Critical - maximum detection coverage, highest priority for response
- Full - maximum detection coverage, immediate and aggressive response
- Modified - relatively high degree of protection during periods of increased fire danger, otherwise lower protection level
- Limited - routine detection effort, areas where natural fire is important
- Unplanned
- Installation Boundary
- Streams
- Highways

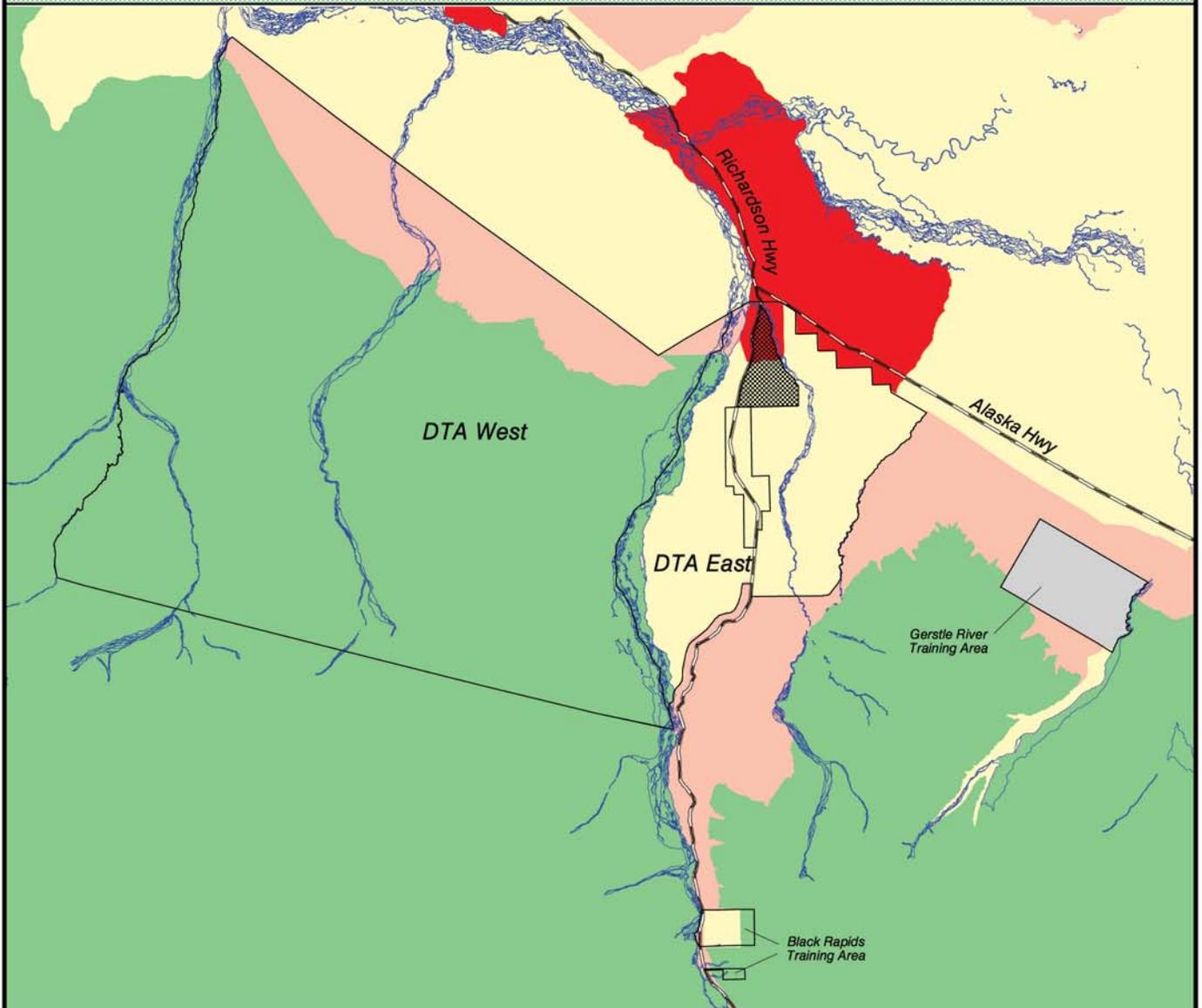
Source:  
Alaska Geospatial Data  
Clearinghouse 2002

Scale: 1:700000  
10 0 10 Miles



Figure 3.11.b

*Fire Management Areas  
Donnelly Training Area*



-  *Critical - maximum detection coverage, highest priority for response*
-  *Full - maximum detection coverage, immediate and aggressive response*
-  *Modified - relatively high degree of protection during periods of increased fire danger, otherwise lower protection level*
-  *Limited - routine detection effort, areas where natural fire is important*
-  *Unplanned*

**Legend**

-  *Installation Boundary*
-  *Fort Greely*
-  *Streams*
-  *Highways*

Source:  
Alaska Geospatial Data  
Clearinghouse 2002



Figure 3.11.c

### Fire Management Areas Fort Richardson

#### Legend

- Critical - maximum detection coverage, highest priority for response*
- Full - maximum detection coverage, immediate and aggressive response*
- Modified - relatively high degree of protection during periods of increased fire danger, otherwise lower protection level*
- Limited - routine detection effort, areas where natural fire is important*
- Installation Boundary*
- Highways*
- Streams*

Scale: 1:150,000

1 0 1 Mile



Source:

Alaska Geospatial Data Clearinghouse 2002

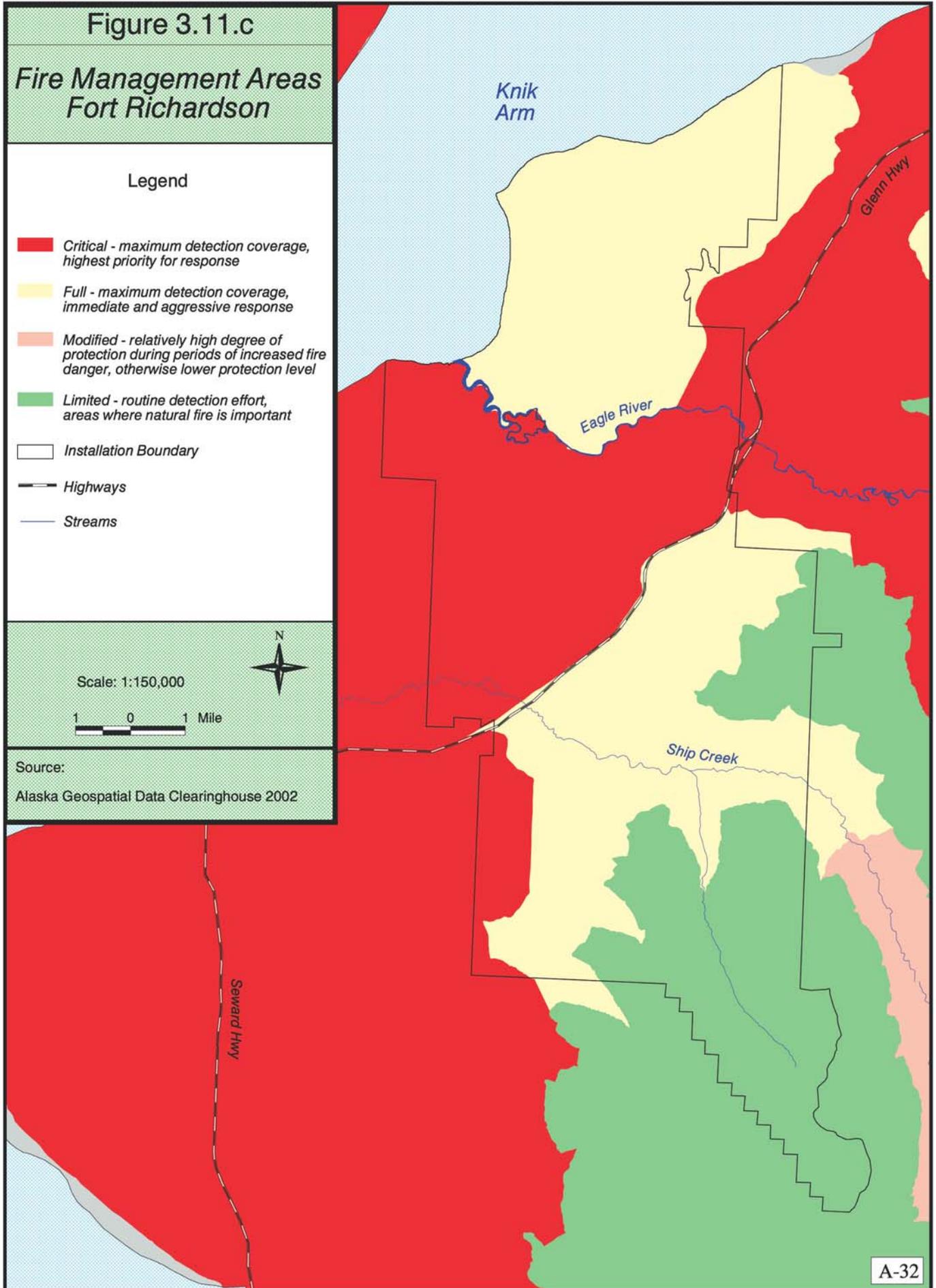
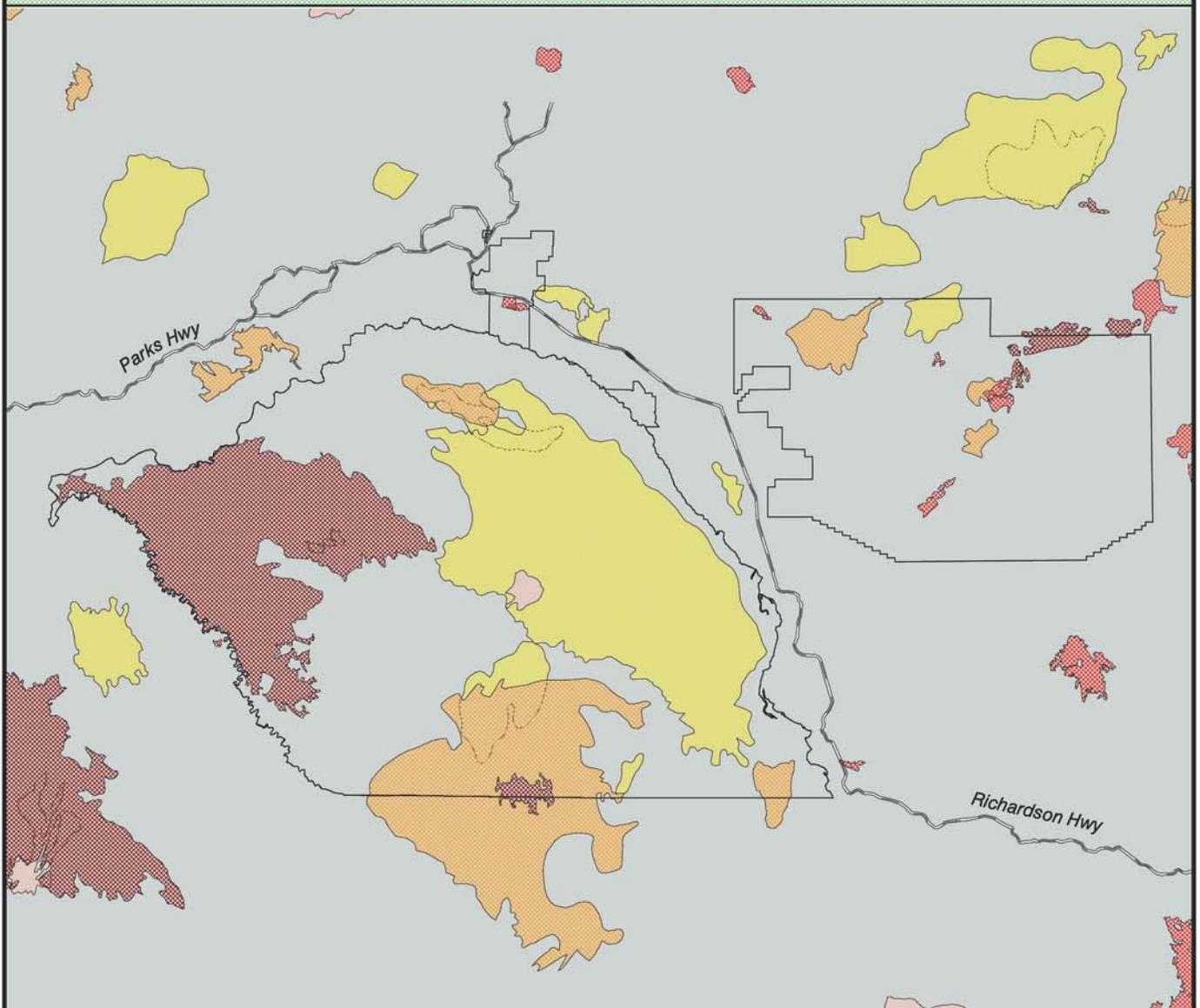


Figure 3.11.d

*Fire History  
Fort Wainwright*



*Fire Occurance Decade*

-  1950 - 1959
-  1960 - 1969
-  1970 - 1979
-  1980 - 1989
-  1990 - 1999
-  2000 - 2001

**Legend**

-  *Installation Boundary*
-  *Highways*

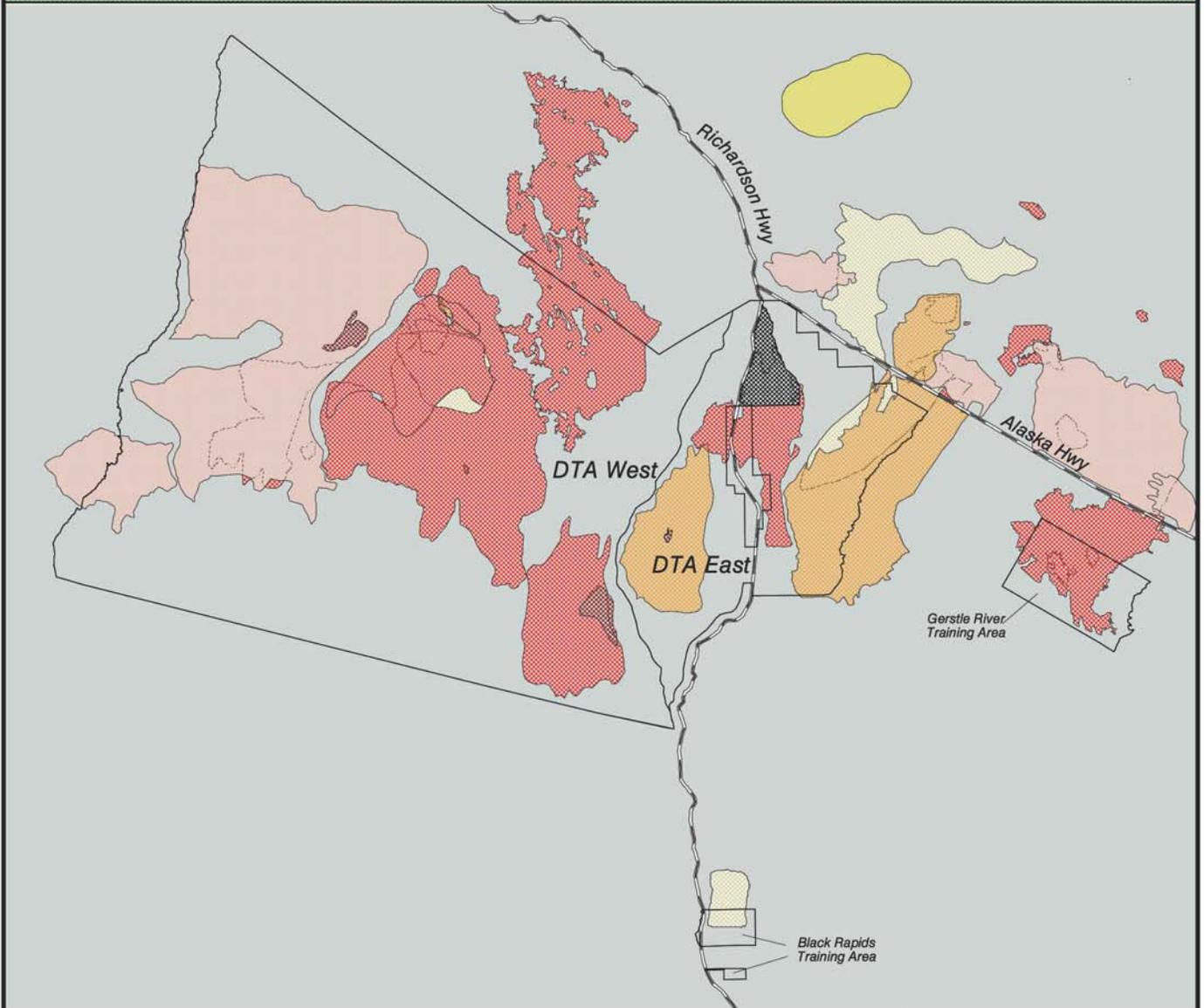
Source:  
Alaska Geospatial Data  
Clearinghouse 2002

Scale: 1:700000  
10 0 10 Miles



Figure 3.11.e

*Fire History  
Donnelly Training Area*



*Fire Occurance Decade*



**Legend**



Source:  
Alaska Geospatial Data  
Clearinghouse 2002



Figure 3.11.f

### Fire History Fort Richardson

Legend

 Installation Boundary

 Highways

 Roads

Fire Occurance Decade

 1950-1959

 1960-1969

 1970-1979

 1980-1989

 1990-1999

 2000-2001

Scale: 1:400,000

 5 0 5 Miles



Source:

Alaska Geospatial Data Clearinghouse 2002

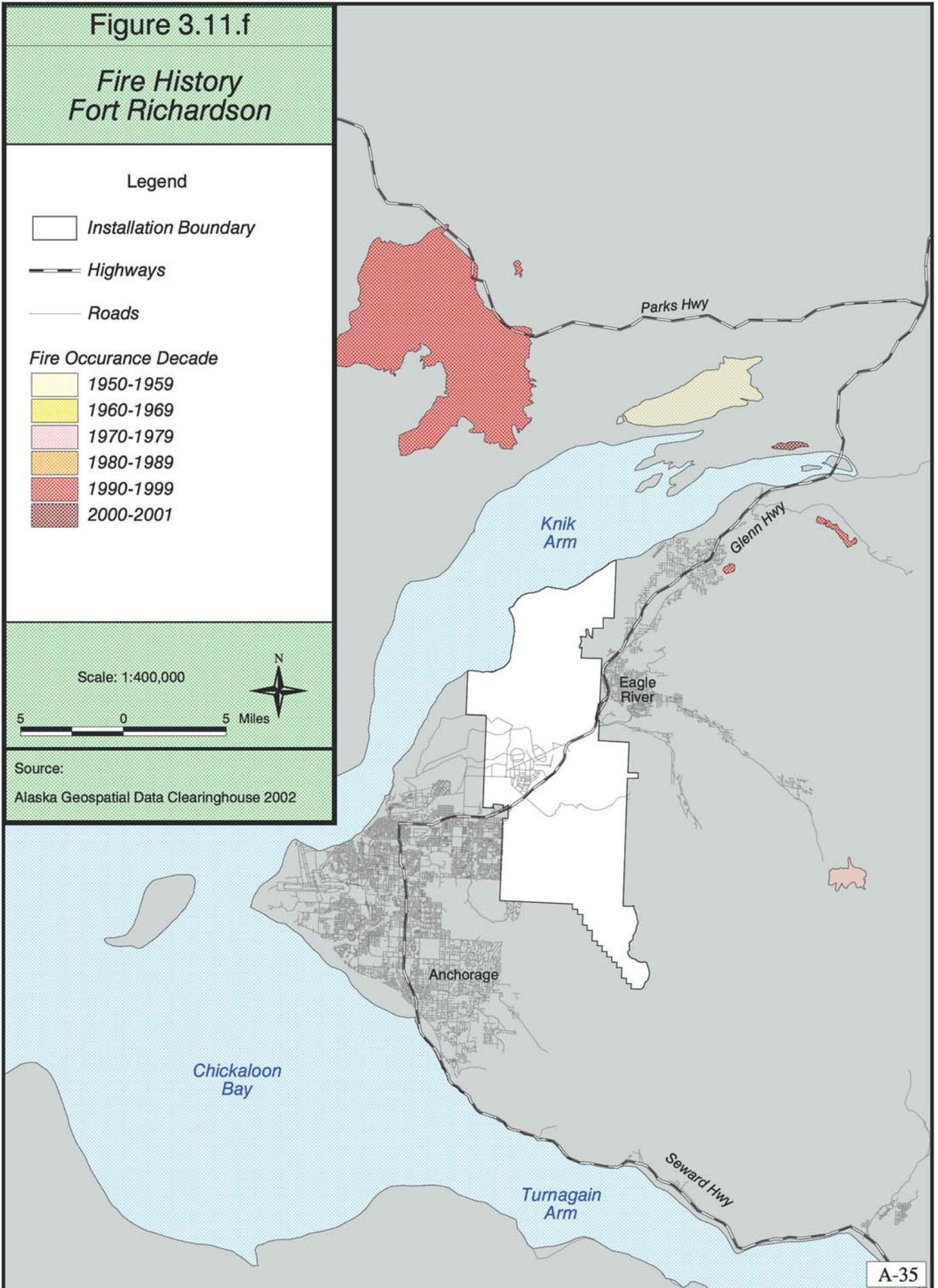
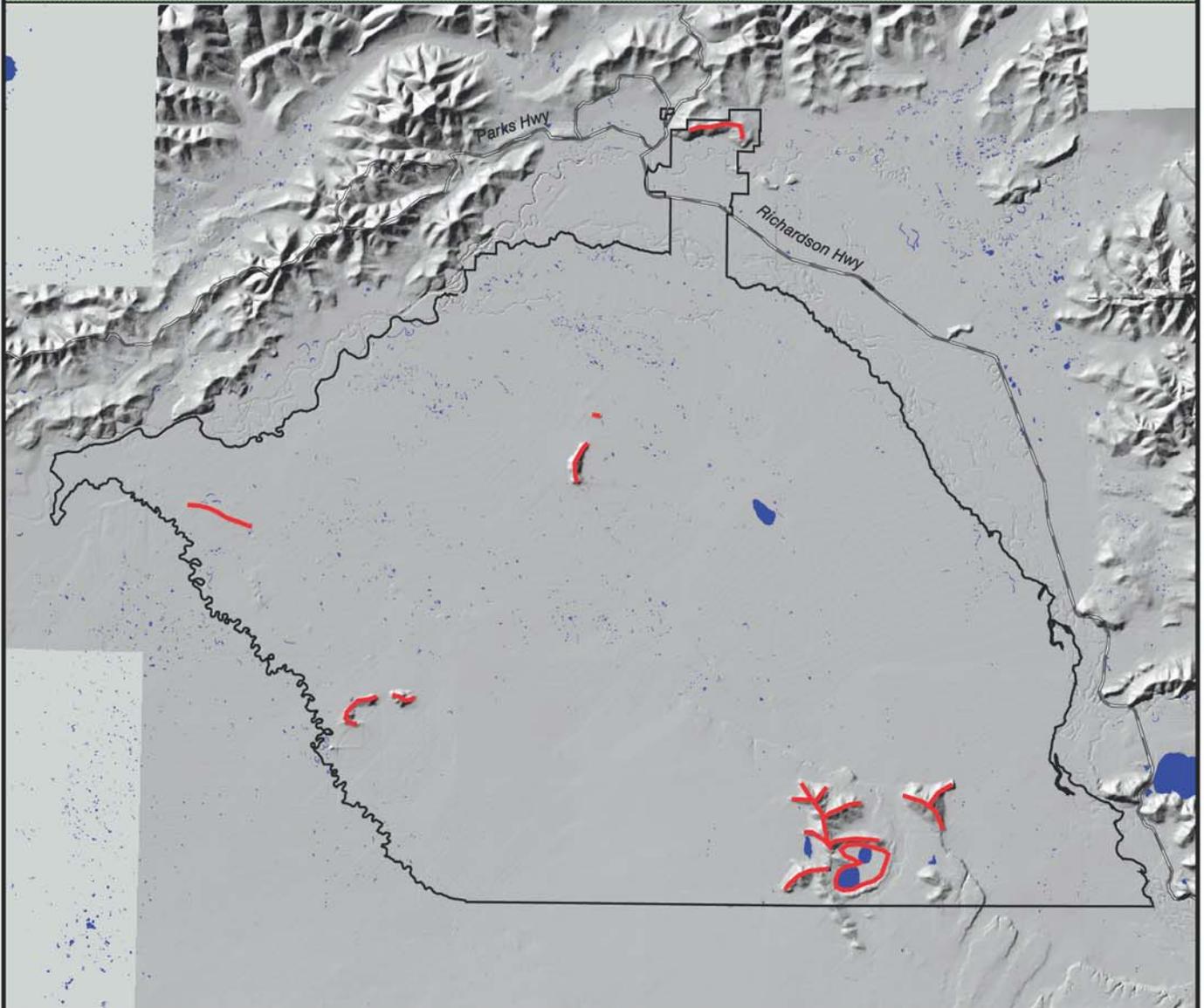


Figure 3.12.a

*Cultural Resource Areas Surveyed  
Fort Wainwright Main Post and Tanana Flats Training Area*



Legend

- |  |   |
|--|---|
|  <i>Installation Boundary</i> |  <i>Surveys Prior to 2002</i> |
|  <i>Lakes</i>                 |  <i>Highways</i>              |

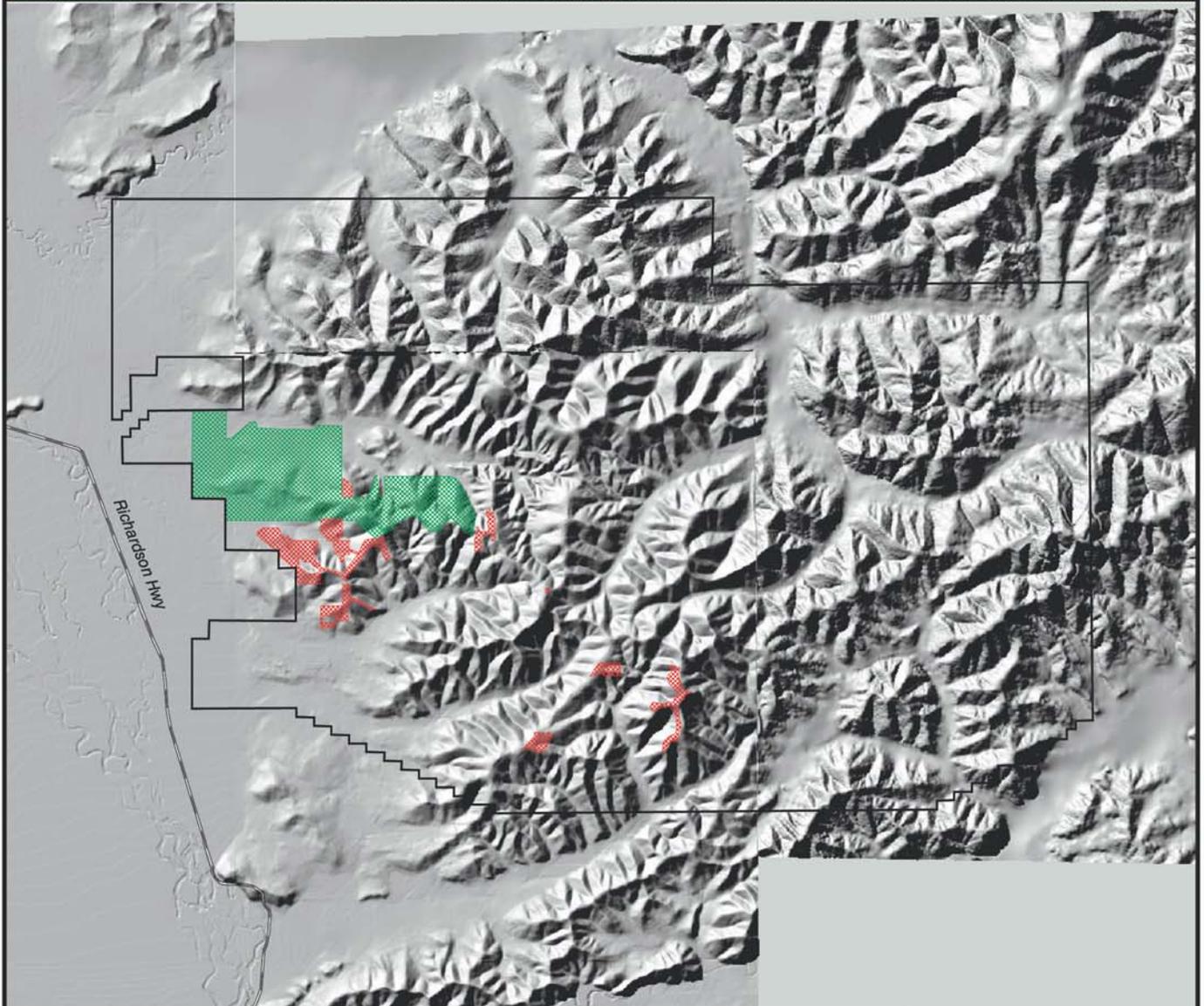
Source:  
USARAK Cultural Resources 2003

Scale: 1:500000



Figure 3.12.b

*Cultural Resource Areas Surveyed  
Yukon Training Area*



Legend

-  *Installation Boundary*
-  *2003 Survey Areas*
-  *2002 Survey Areas*
-  *Highways*

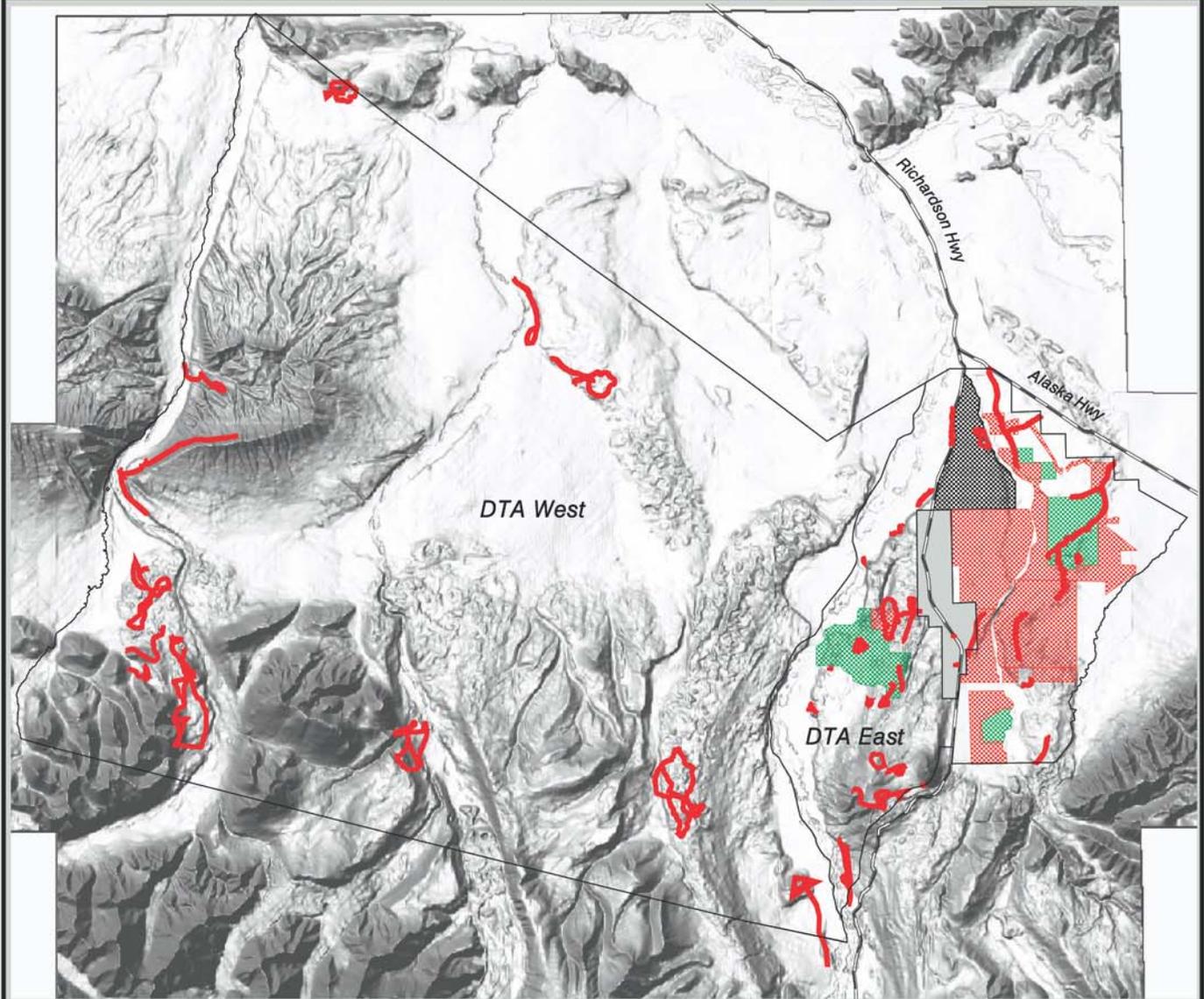
Source:  
USARAK Cultural Resources 2003

Scale: 1:300000



Figure 3.12.c

*Cultural Resource Areas Surveyed  
Donnelly Training Area*



Legend

- |   |   |
|---|---|
|  2003 Survey Areas     |  Installation Boundary |
|  2002 Survey Areas     |  Fort Greely           |
|  Surveys Prior to 2002 |  Highways              |

Source:  
USARAK Cultural Resources 2003

Scale: 1:450000



Figure 3.12.d

*Cultural Resource Areas  
Surveyed  
Fort Richardson*

Legend

-  *Installation Boundary*
-  *2003 Survey Areas*
-  *2002 Survey Areas*
-  *Surveys Prior to 2002*
-  *Highways*

Scale: 1:150,000

2 0 2 Miles



Source:

USARAK Cultural Resources 2003

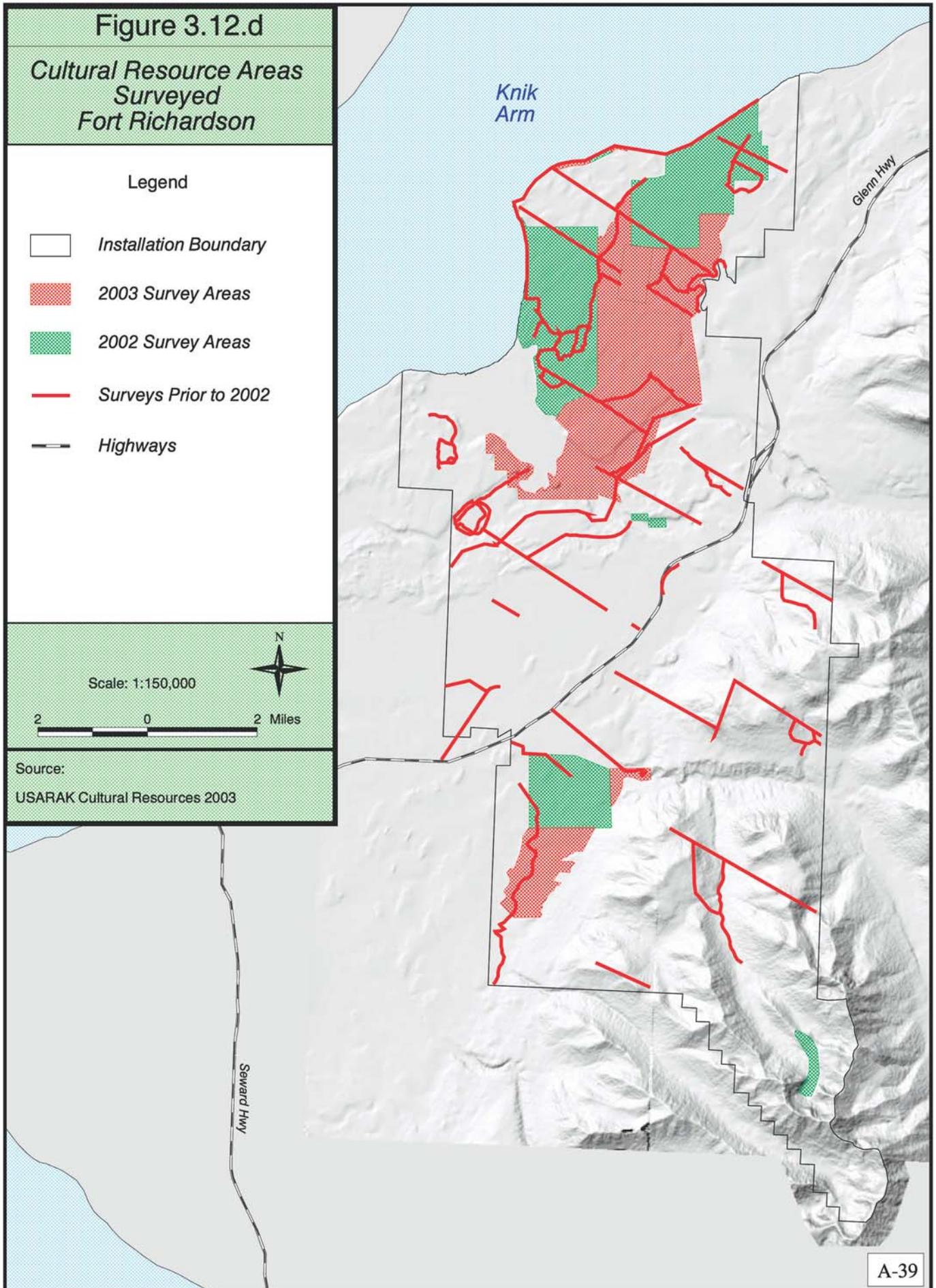
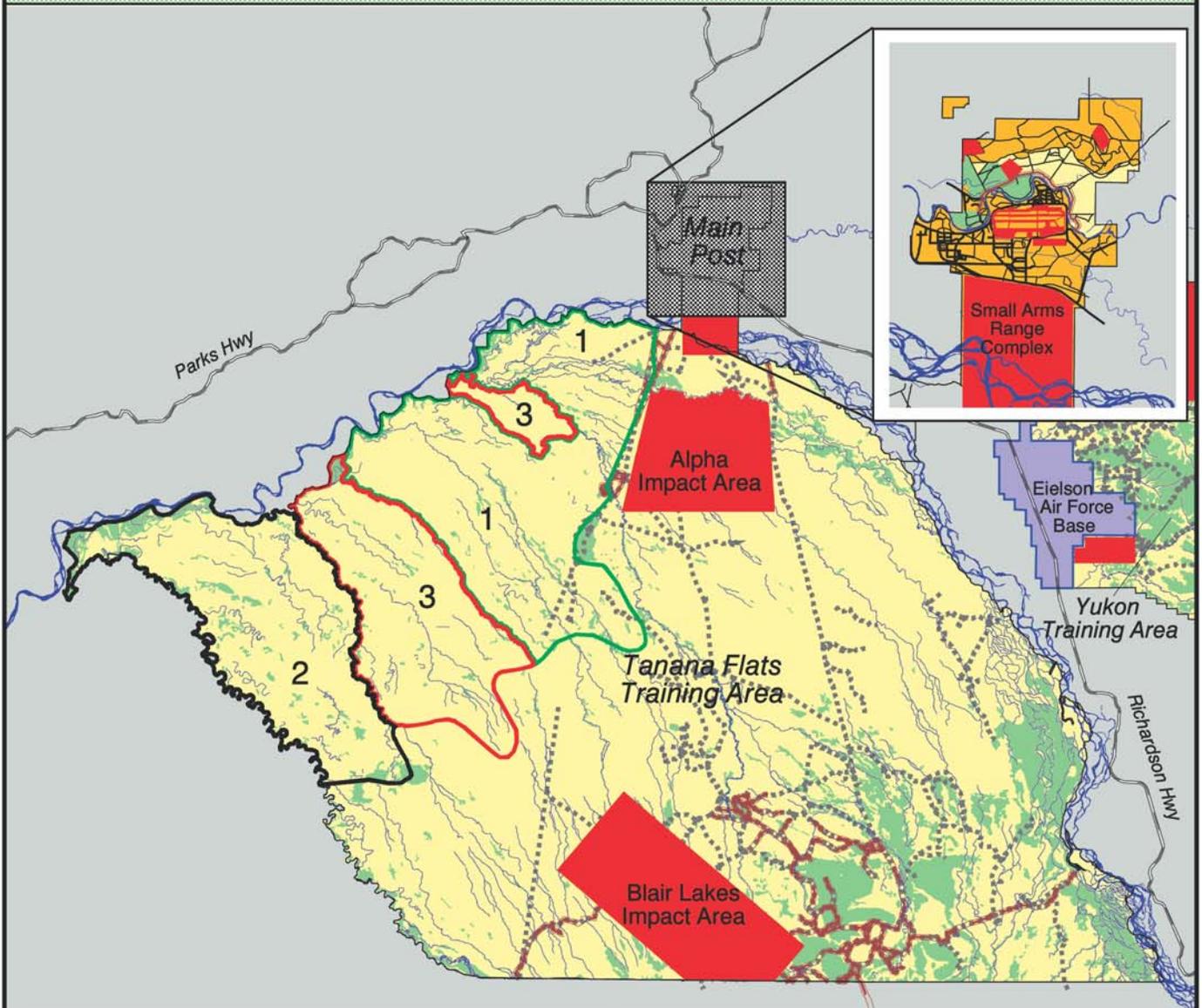


Figure 3.14.a

*Recreational Use Areas  
Fort Wainwright Main Post and Tanana Flats Training Area*



**Legend**

-  Open Use Area
-  Modified Use Area
-  Limited Use Area
-  Off Limits Area

*Recreational Impacts  
Study Areas*

-  1 Open Use Area
-  2 Modified Use Area
-  3 Off Limits Area

-  Installation Boundary
-  Streams
-  Roads
-  Highways
-  Summer Trails
-  Winter Trails

Source:  
U.S. Army Alaska 2002g

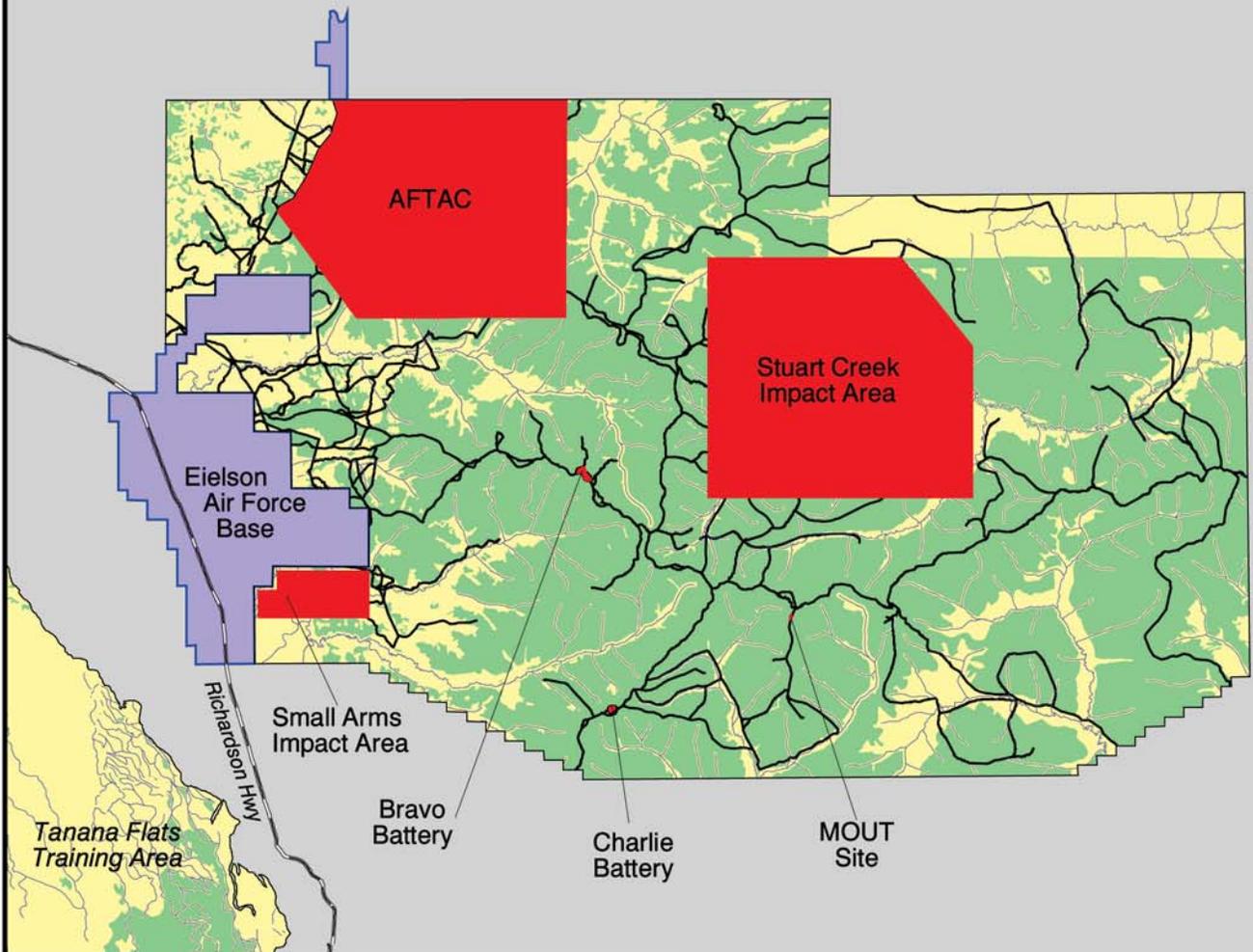
Scale: 1:500000

10 0 10 Miles



Figure 3.14.b

Recreational Use Areas  
Yukon Training Area



Legend

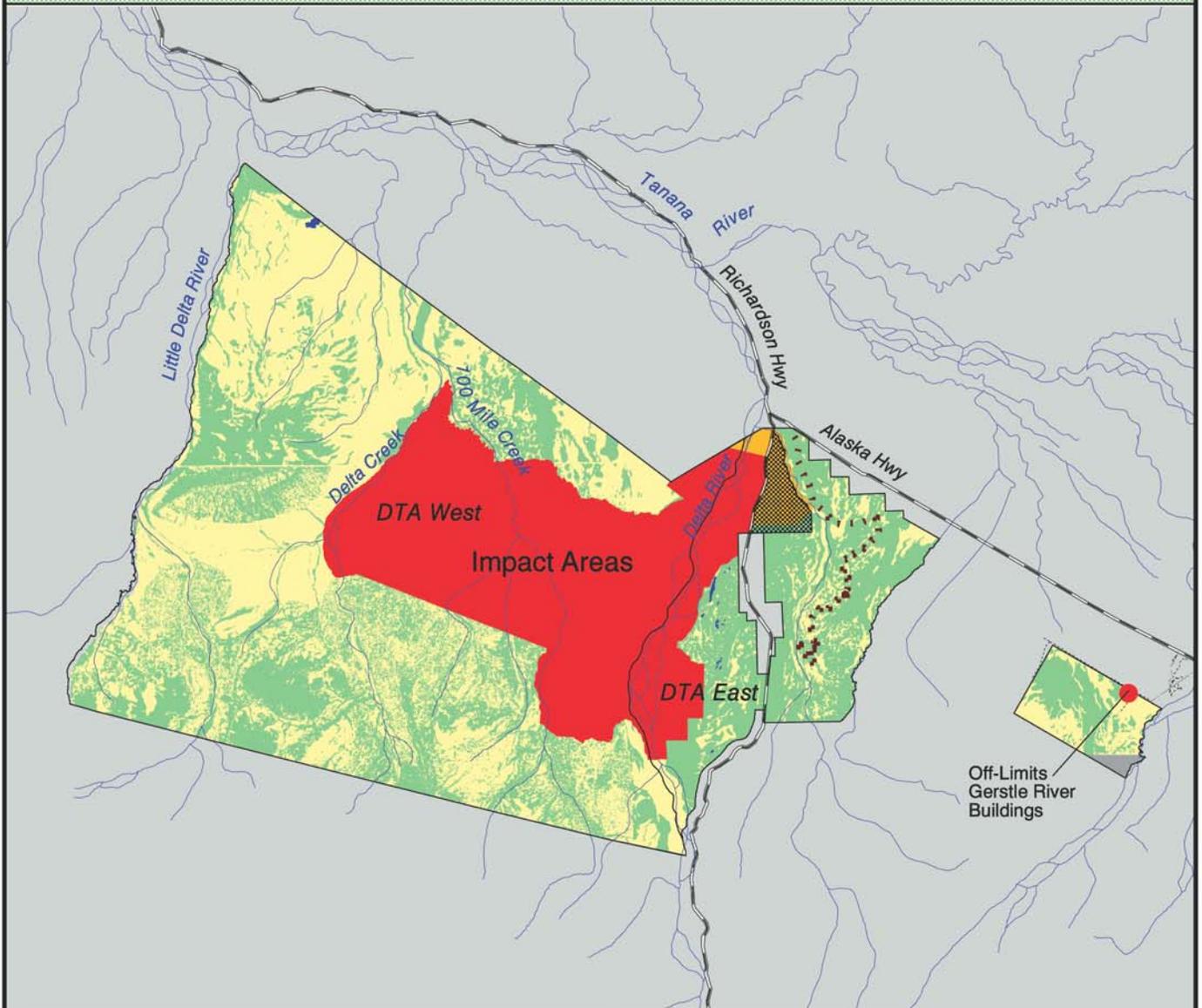
- |   |  |  |
|---|--|--|
|  Open Use Area     |  Installation Boundary  |  Highway          |
|  Modified Use Area |  Eielson Air Force Base |  Roads and Trails |
|  Off Limits Area   |  |  Streams          |

Source:  
U.S. Army Alaska 1999f



Figure 3.14.c

Recreational Use Areas  
Donnelly Training Area



- |   |               |                             |
|---|---------------|-----------------------------|
| Open Use Area   | <b>Legend</b> | Installation Boundary       |
| Modified Use Area   |               | Gerstle River Training Area |
| Limited Use Area  | Fort Greely   |                             |
| Off Limits Area   | Stocked Lakes |                             |
| No Data Available   | Streams       |                             |
| 33 Mile Loop Road, Open to Snowmachines (Winter), and ORVs (Summer) | Highways      |                             |

Source:  
U.S. Army Alaska 2002e



Figure 3.14.d

### Recreational Use Areas Fort Richardson

**Legend**

- Installation Boundary
- Streams
- Lakes and Ponds

**ROADS AND TRAILS**

- Highways
- Light duty, paved
- Light duty, unpaved
- Trail

**RECREATIONAL USE AREAS**

- Dirt Bike Recreation Area
- ORV Access Trail
- Open Use Area
- Modified Use Area
- Limited Use Area

**OFF LIMITS AREAS**

- Eagle River Flats - Impact Area
- Municipality of Anchorage Landfill

Scale: 1:150,000



Source:  
U.S. Army Alaska 2002f

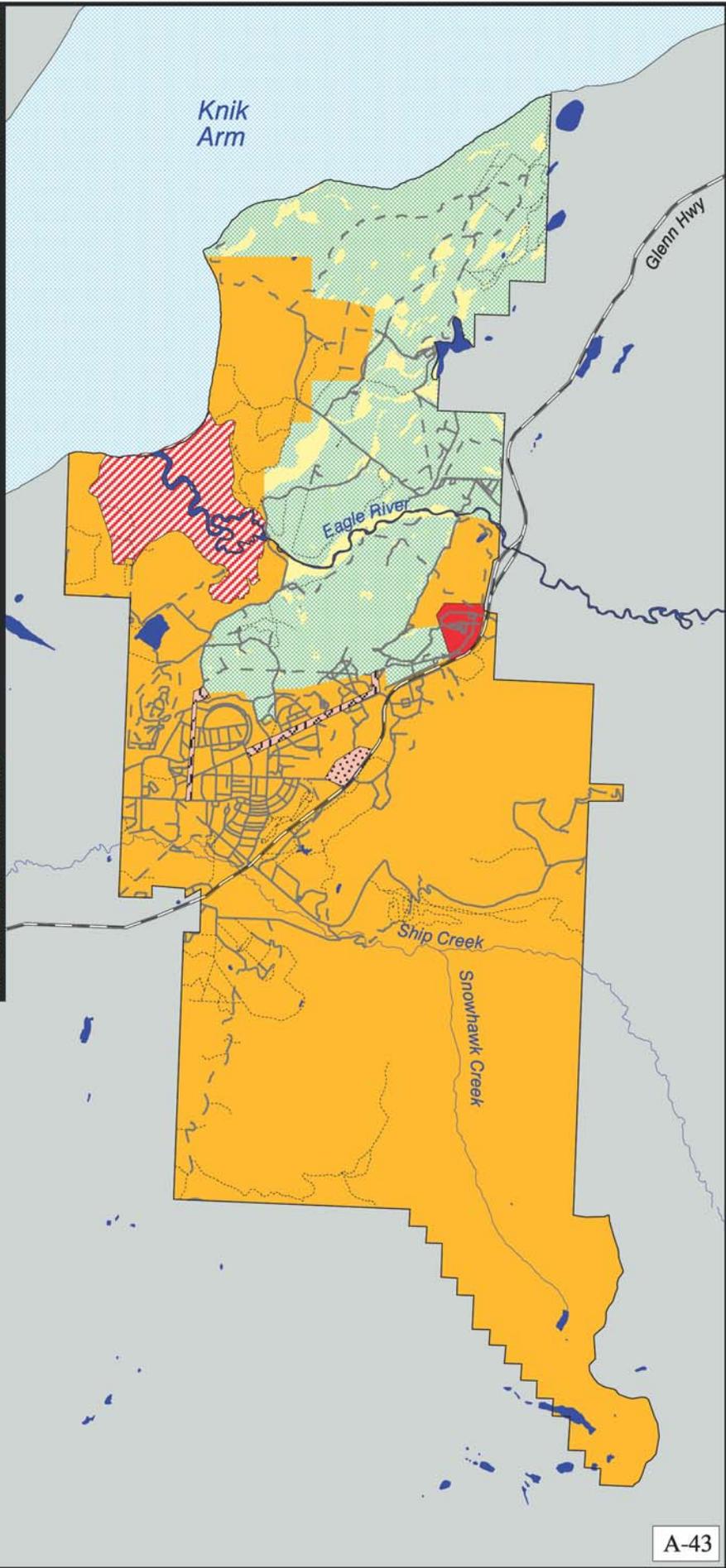
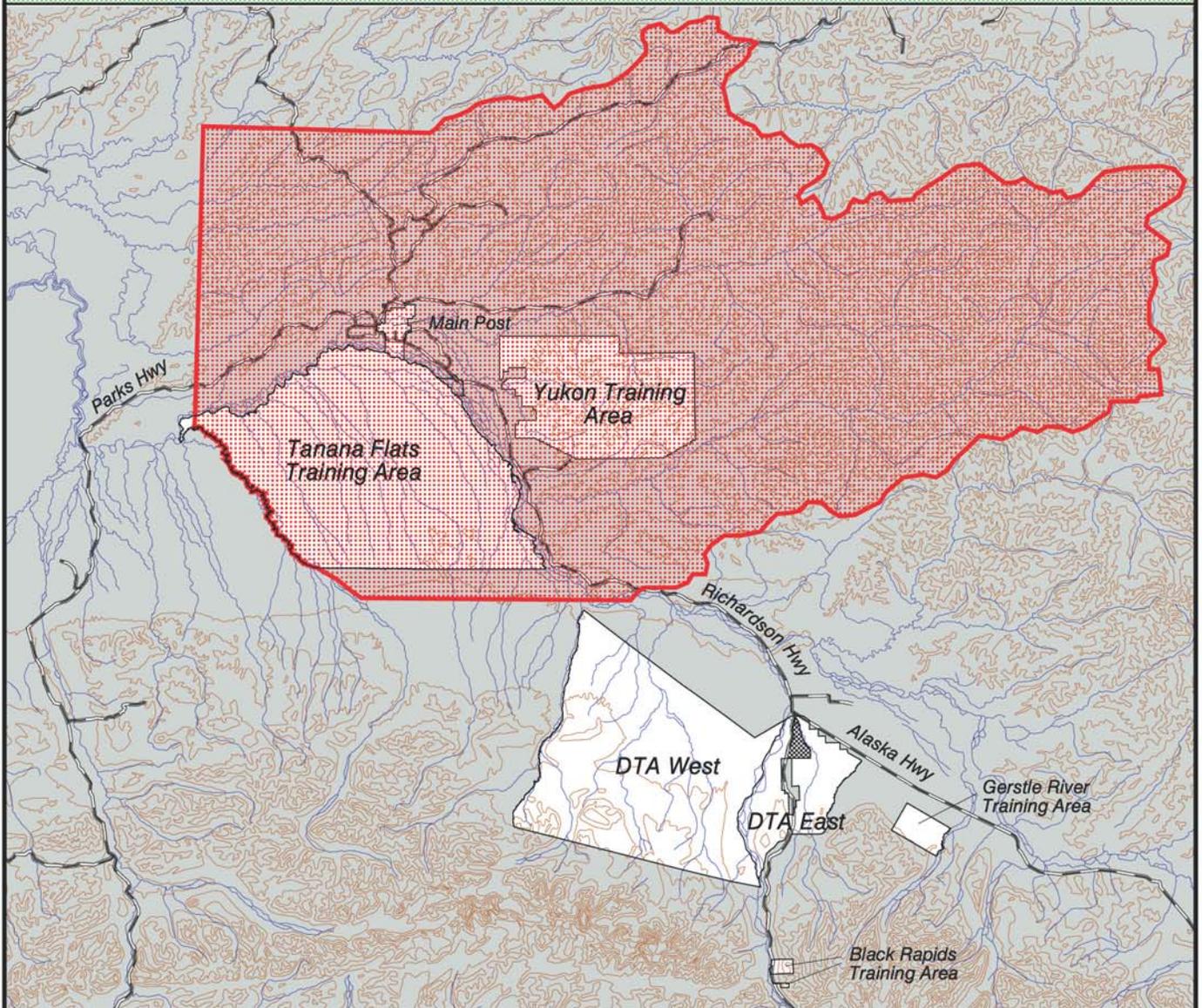


Figure 3.15.a

*Subsistence Areas  
Fort Wainwright and Donnelly Training Area*



**Legend**

- |   |                                |   |                                       |
|---|--------------------------------|---|---------------------------------------|
|  | <i>Federal Non-Rural Lands</i> |  | <i>Highways</i>                       |
|  | <i>Installation Boundaries</i> |  | <i>Streams</i>                        |
|  | <i>Fort Greely</i>             |  | <i>Contours (1000 Meter Interval)</i> |

Source:  
U.S. Fish and Wildlife Service 2002

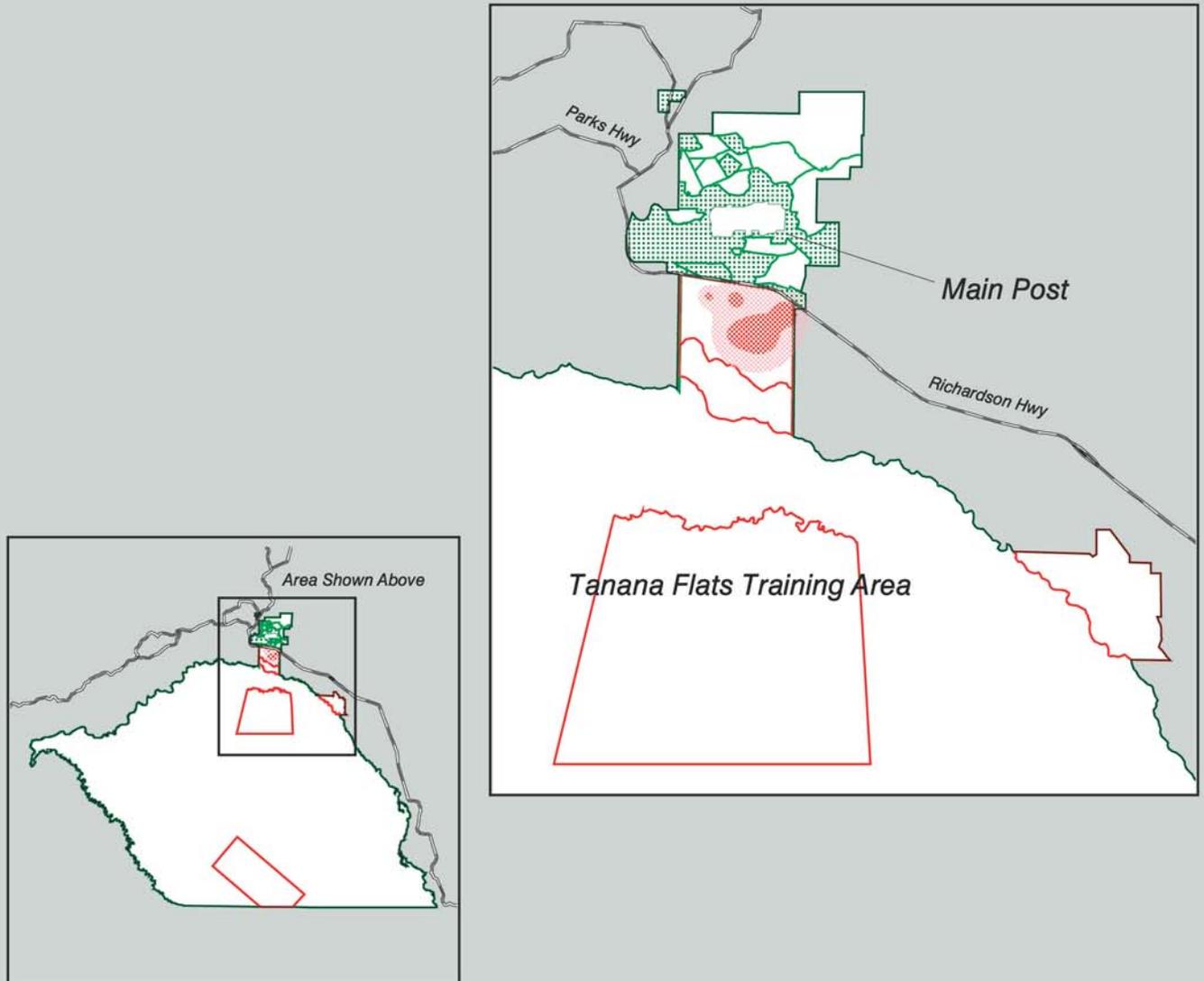
Scale: 1:1500000

30 0 30 Miles



Figure 3.16.a

*Existing Noise Contours  
Fort Wainwright Main Post and Tanana Flats Training Area*



*Noise Zones*

 **Zone II**  
*Exposure to noise within these areas is considered significant*

 **Zone III**  
*Noise levels are so severe that noise-sensitive land uses should not be considered*

**Legend**

 *Installation Boundary*

 *Training Areas*

 *Impact Areas*

 *Cantonment Area*

 *Highways*

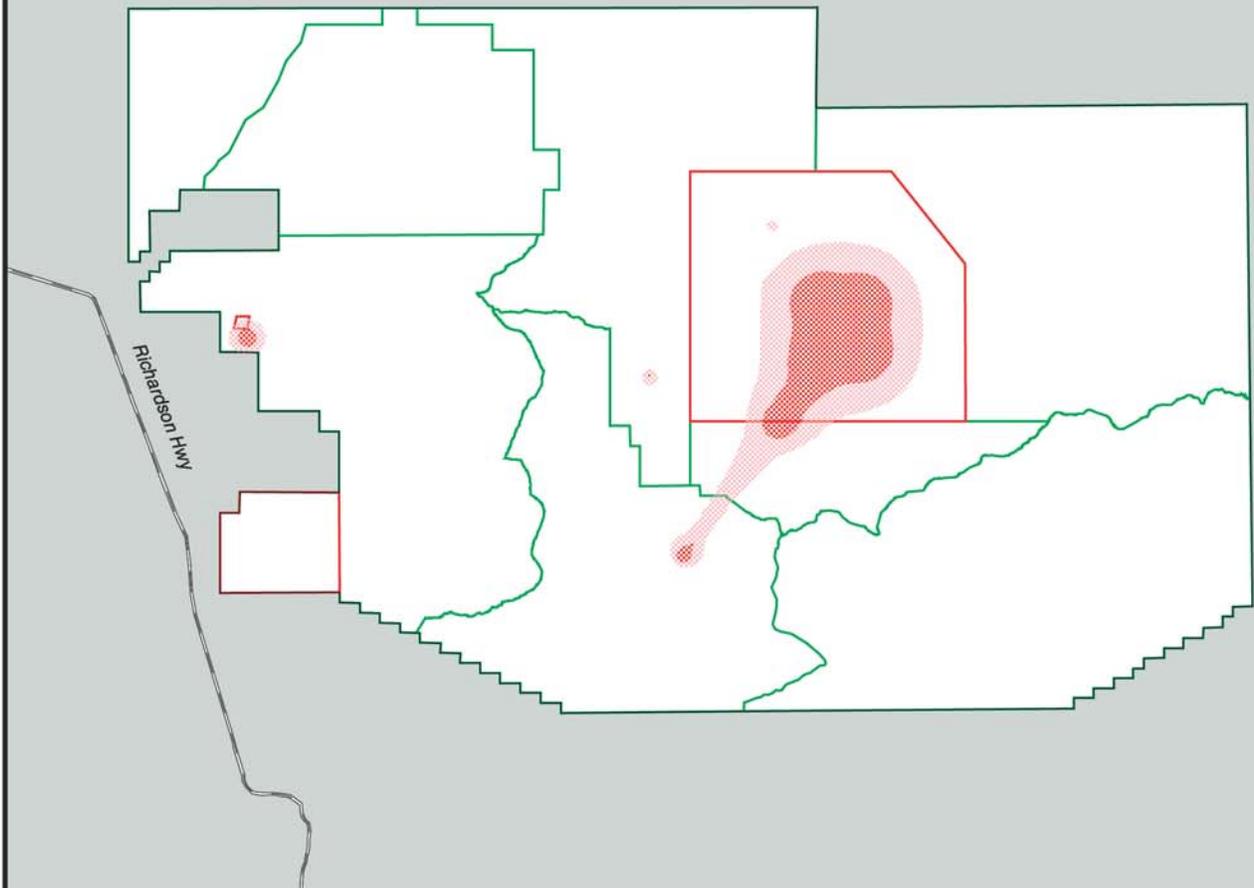
Source:  
USACHPPM 2003

Scale: 1:250000



Figure 3.16.b

*Existing Noise Contours  
Yukon Training Area*



Legend

Noise Zones

-  Zone II  
Exposure to noise within these areas is considered significant
-  Zone III  
Noise levels are so severe that noise-sensitive land uses should not be considered

-  Installation Boundary
-  Training Areas

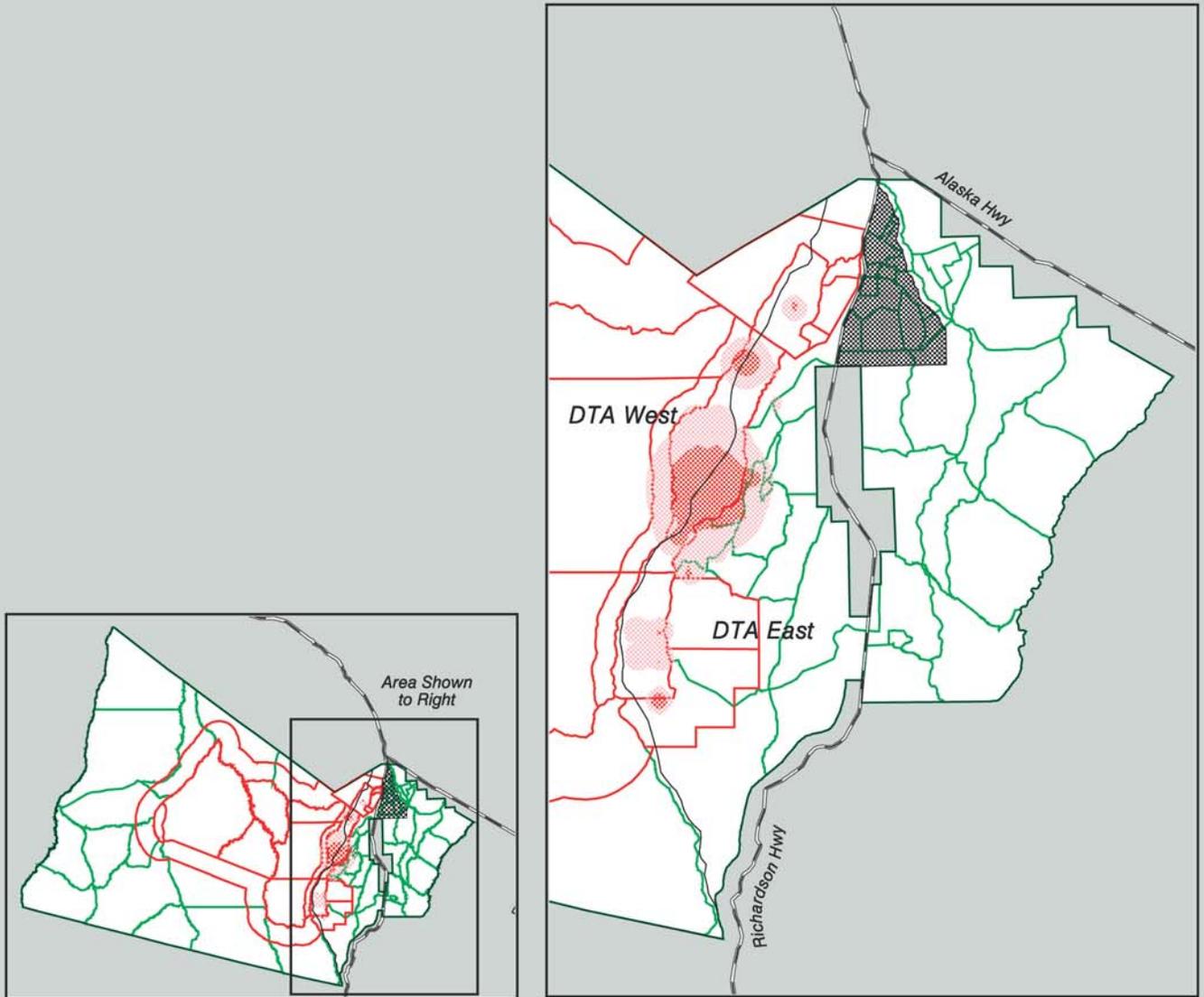
-  Impact Areas
-  Highways

Source:  
USACHPPM 2003



Figure 3.16.c

*Existing Noise Contours  
Donnelly Training Area*



Legend

Noise Zones

-  Zone II  
Exposure to noise within these areas is considered significant
-  Zone III  
Noise levels are so severe that noise-sensitive land uses should not be considered

-  Impact Areas
-  Training Areas
-  Installation Boundary
-  Fort Greely
-  Highways

Source:  
USACHPPM 2003

Scale: 1:350000  
5 0 5 Miles



Figure 3.16.d

### Existing Noise Contours Fort Richardson

#### Legend

##### Noise Zones

-  **Zone II**  
Exposure to noise within these areas is considered significant
-  **Zone III**  
Noise levels are so severe that noise-sensitive land uses should not be considered
-  **Installation Boundary**
-  **Training Areas**
-  **Impact Areas**
-  **Cantonment Area**
-  **Highways**

Scale: 1:150,000

1 0 1 Mile



Source:

USACHPPM 2003

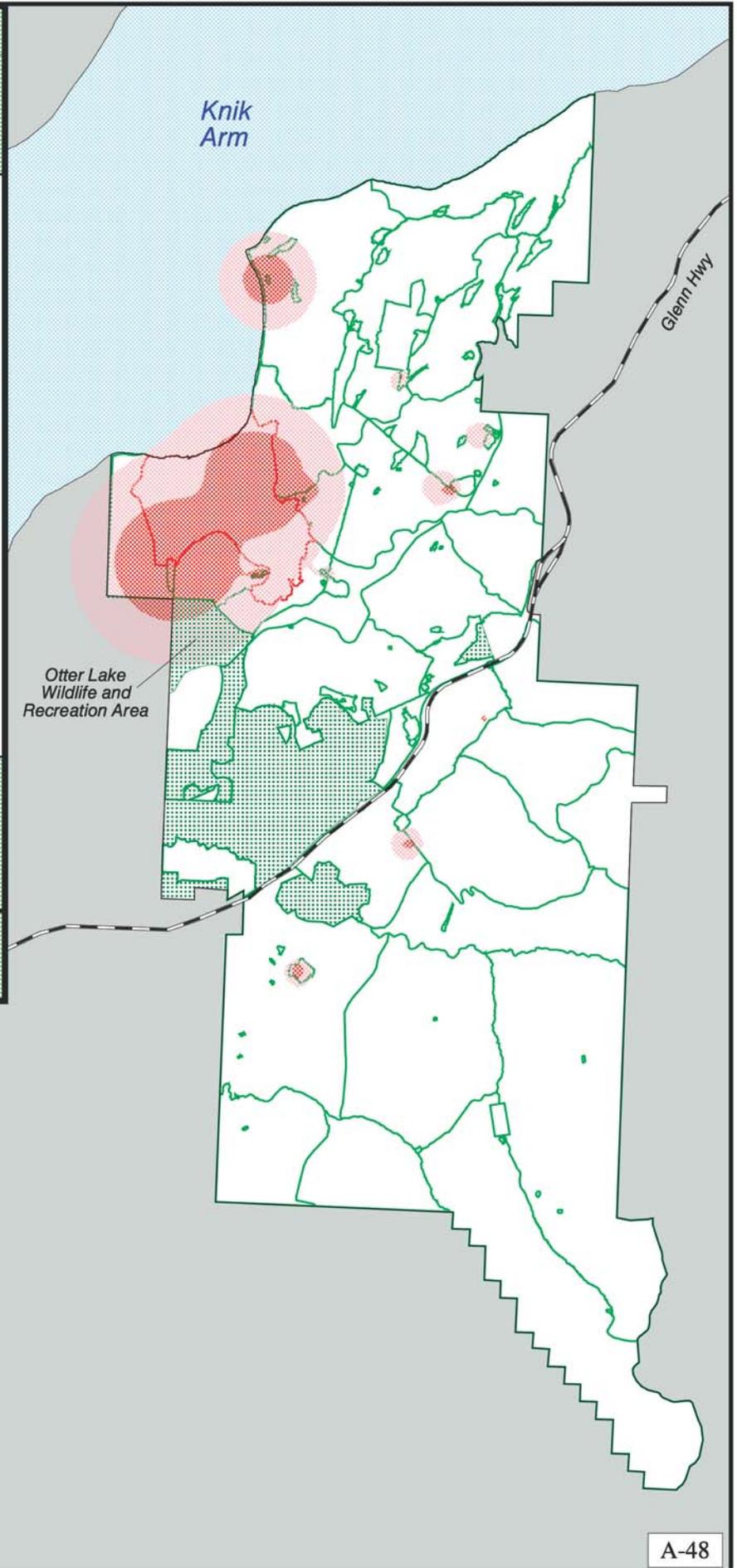
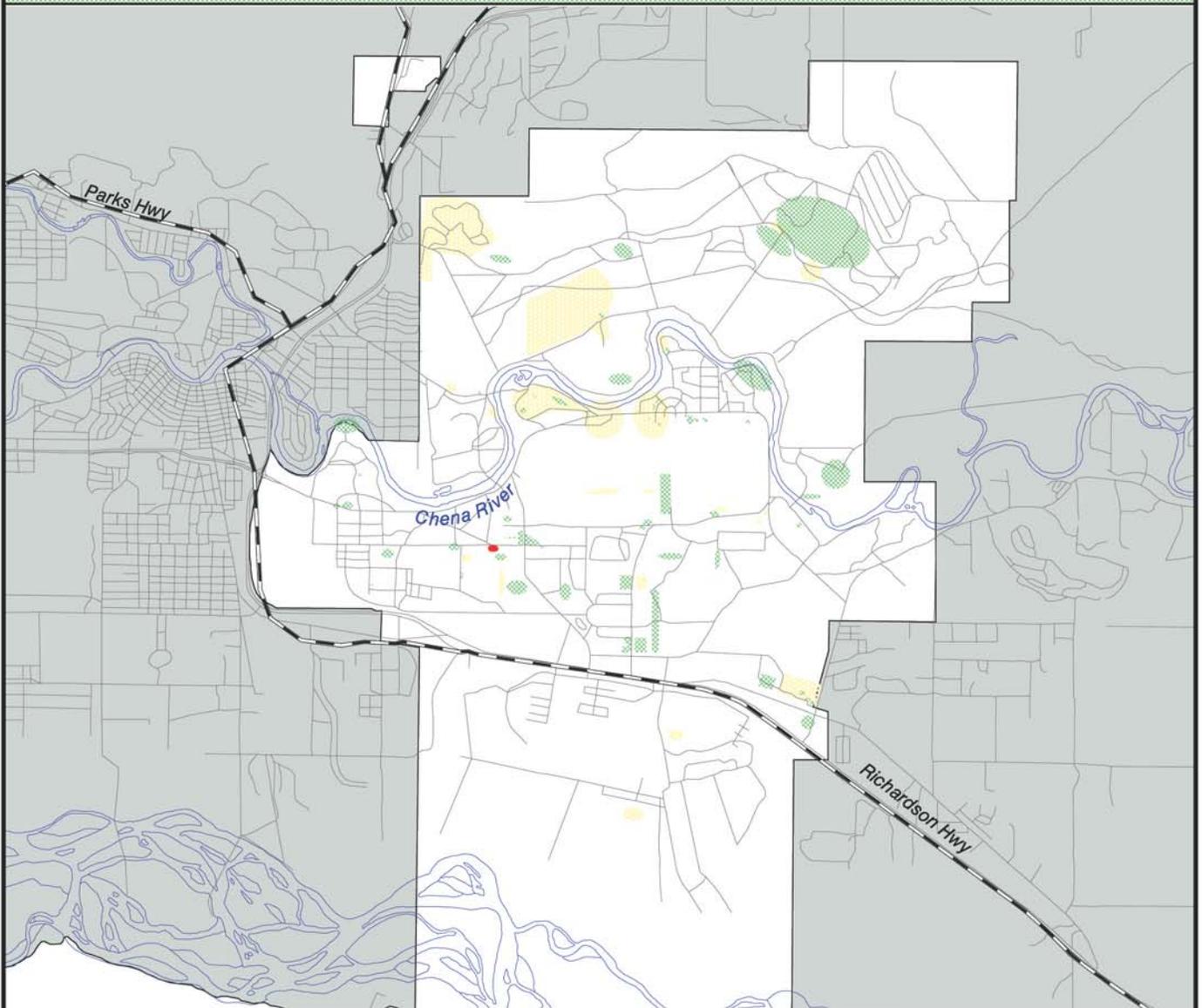


Figure 3.17.a

Contaminated Sites  
Fort Wainwright



Legend



Contamination Still being Defined  
Not all Remedial Action in Place



All Remedial Actions in Place  
Contamination Defined  
Institutional Controls in Place  
Long-Term Monitoring On Going



No Further Action



Installation Boundary



Highways



Roads



Streams

Source:  
USARAK Natural Resources 2003

Scale: 1:75000

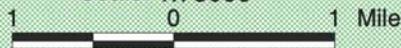
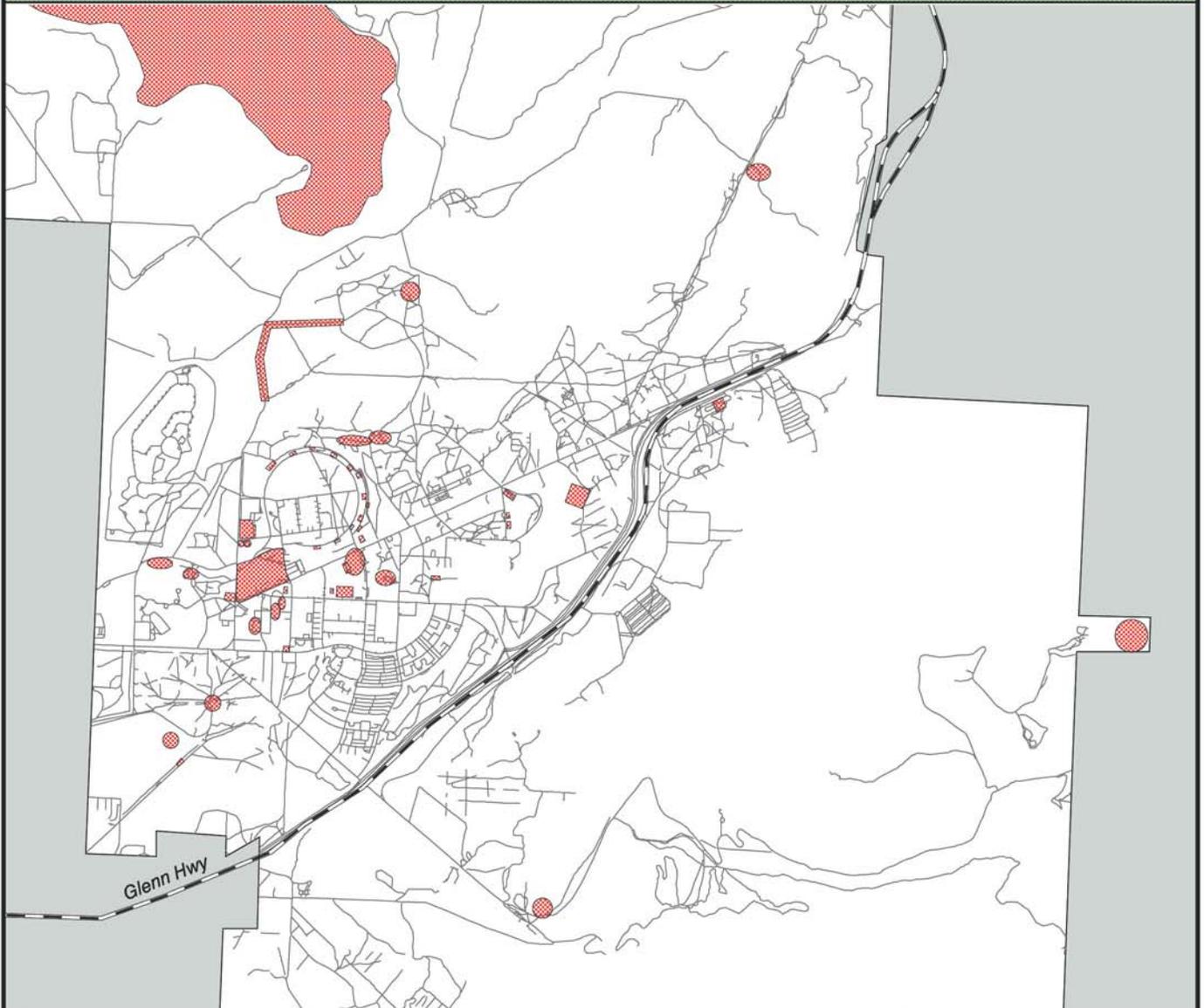


Figure 3.17.b

Contaminated Sites  
Fort Richardson



Legend

 Installation Boundary

 Contaminated Sites

 Highways

 Roads

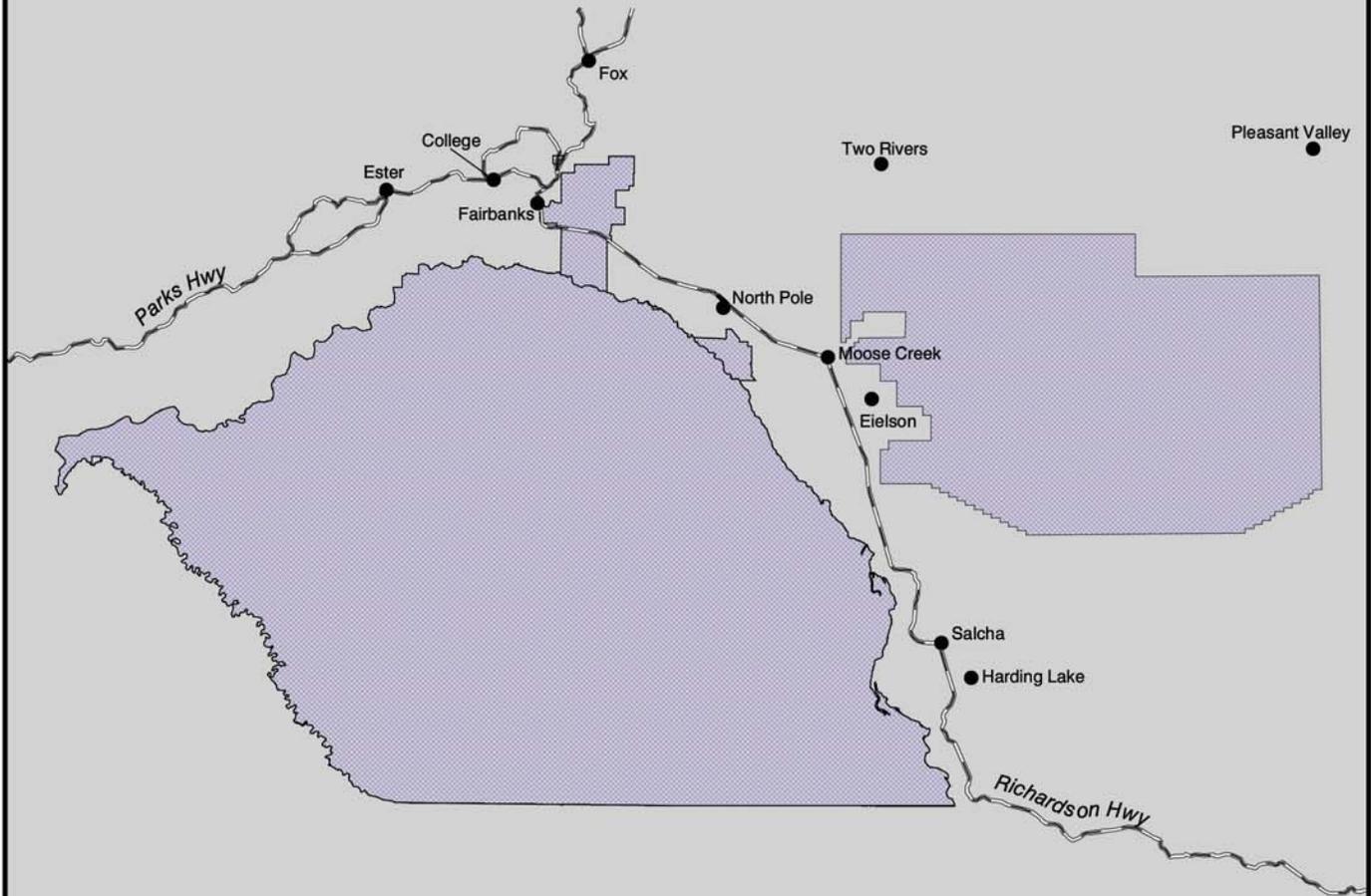
Source:  
USARAK Natural Resources 2003

Scale: 1:75000



Figure 3.18.a

*Fairbanks North Star Borough Communities  
Fort Wainwright*



Legend



*Installation Boundary*



*Fairbanks North Star  
Borough Communities*



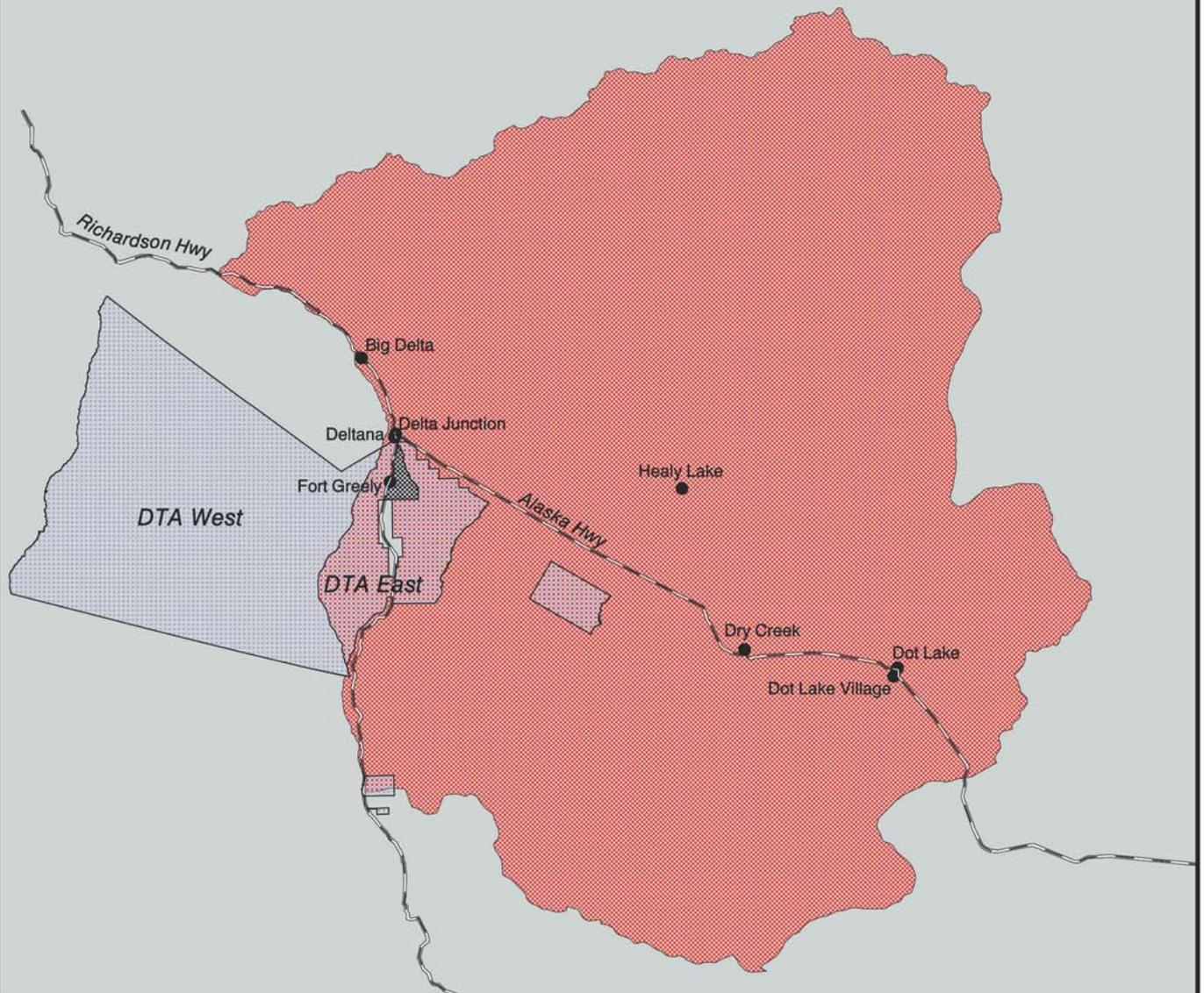
*Highways*

Source:  
Alaska Department of Community  
and Economic Development 2002



Figure 3.18.b

*Southeast Fairbanks Census Area Communities  
Donnelly Training Area*



Legend

-  Installation Boundary
-  Fort Greely
-  Game Management Unit 20D
-  Southeast Fairbanks Census Area Communities
-  Highways

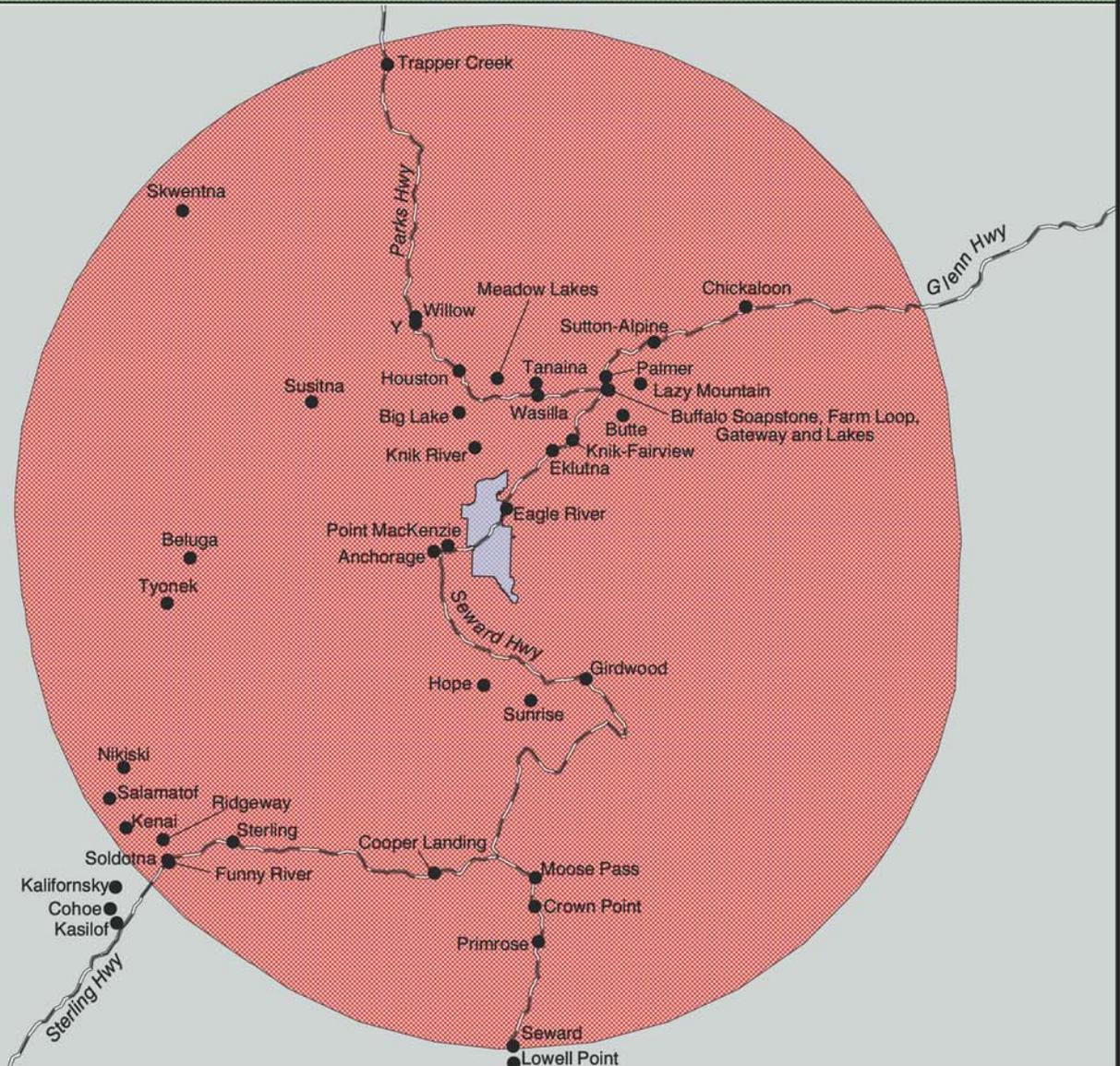
Source:  
Alaska Department of Community  
and Economic Development 2002

Scale: 1:1100000  
10 0 10 Miles



Figure 3.18.c

*Matsunaka-Susitna Borough, Kenai Peninsula Borough  
and Municipality of Anchorage Communities  
Fort Richardson*



Legend



*Installation Boundary*



*Matsunaka-Susitna Borough  
Kenai Peninsula Borough  
and Municipality of Anchorage Communities*



*Fort Richardson 70 Mile Buffer*



*Highways*

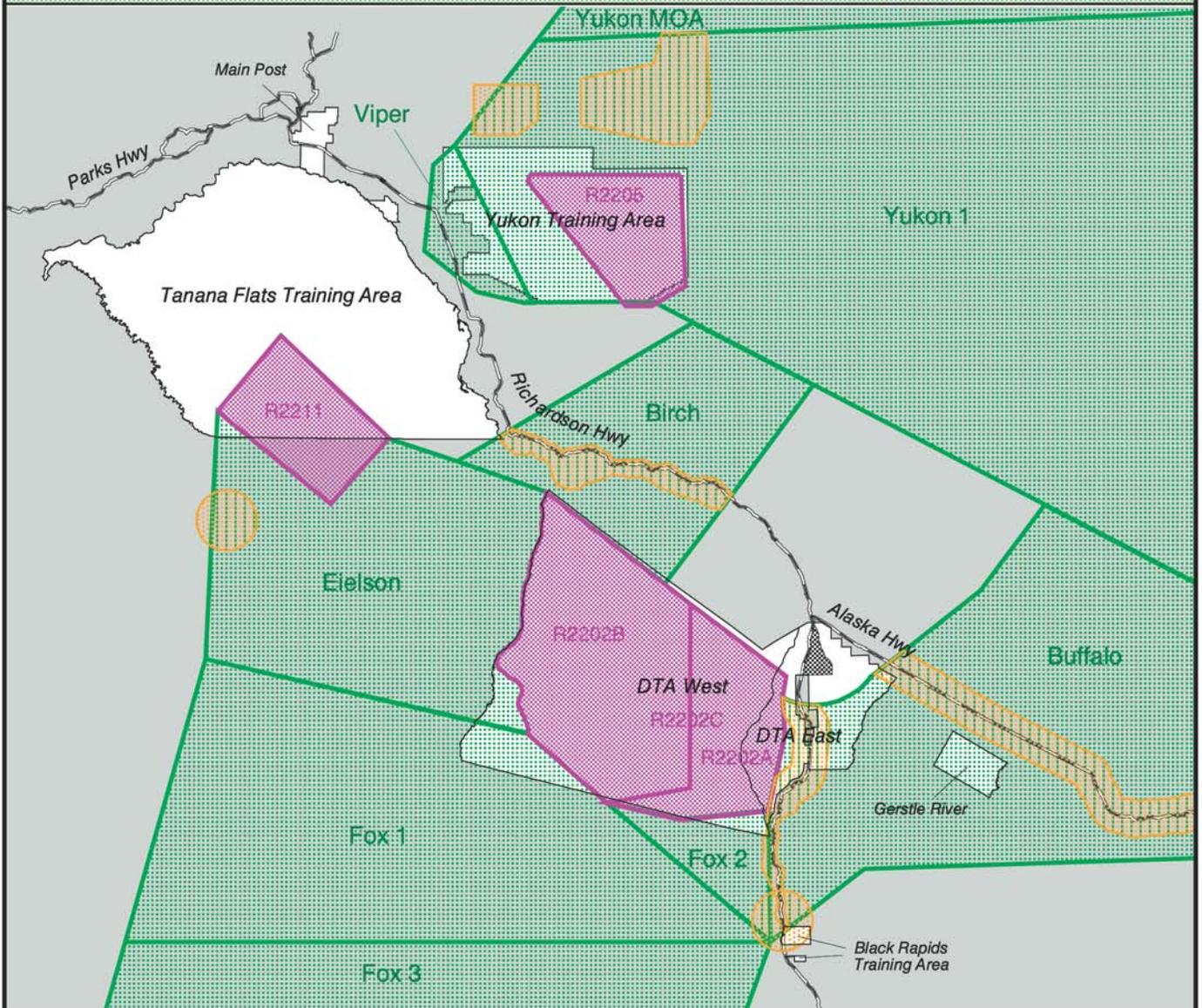
Source:  
Alaska Department of Community  
and Economic Development 2002

Scale: 1:1750000  
10 0 10 Miles



Figure 3.19.b

*Special Use Airspace  
Fort Wainwright and Donnelly Training Area*



Legend

- |  |  |
|--|--|
|  Military Operations Area (MOA) |  Installation Boundaries |
|  MOA Exclusion Areas            |  Fort Greely             |
|  Restricted Airspace            |  Highways                |

Source:  
U.S. Army Alaska 2002e,g  
U.S. Air Force 1995

Scale: 1:1200000  
10 0 10 Miles



Figure 3.19.c

*Special Use Airspace  
Fort Richardson*

Legend

-  *Restricted Airspace*
-  *Installation Boundary*
-  *Highways*
-  *Railroad*

Scale: 1:150,000

1 0 1 Mile



Source:  
U.S. Army Alaska 2002f

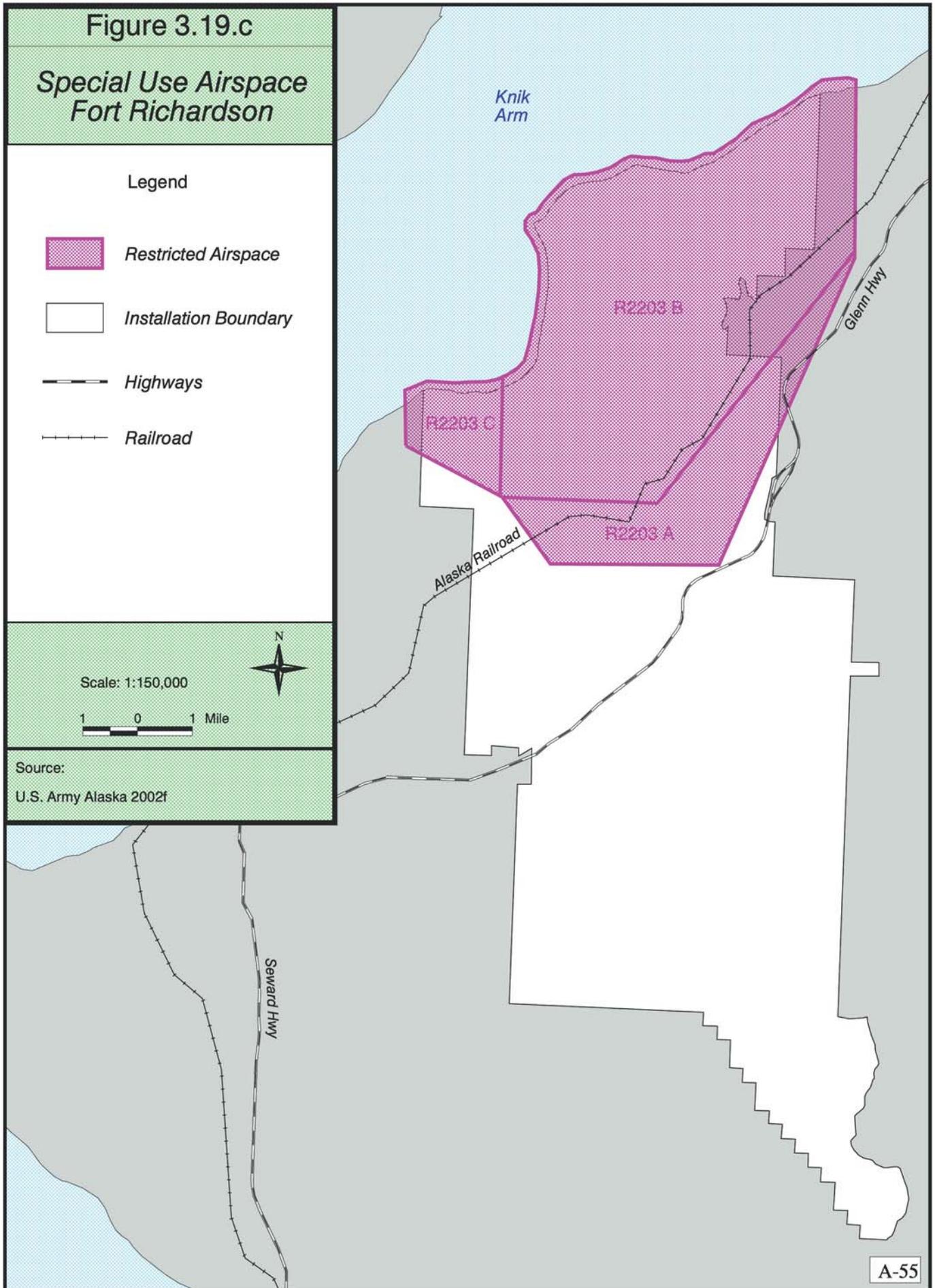
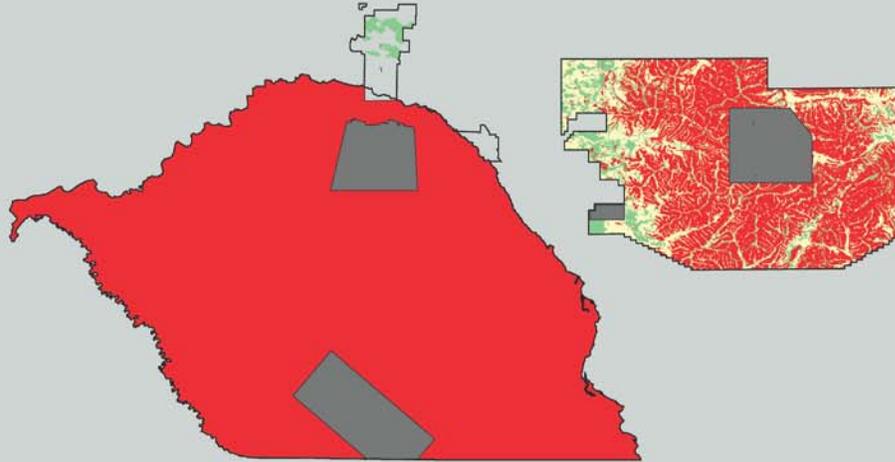
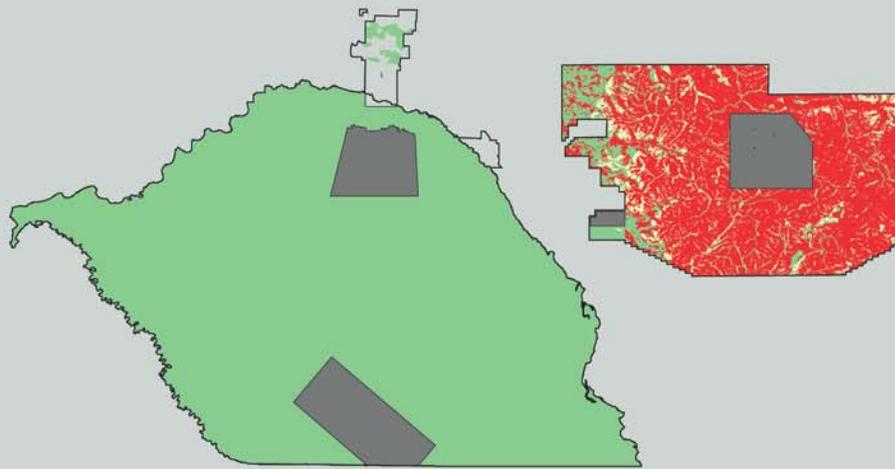


Figure 4.4.a

*Stryker Summer and Winter Maneuverability  
Fort Wainwright*

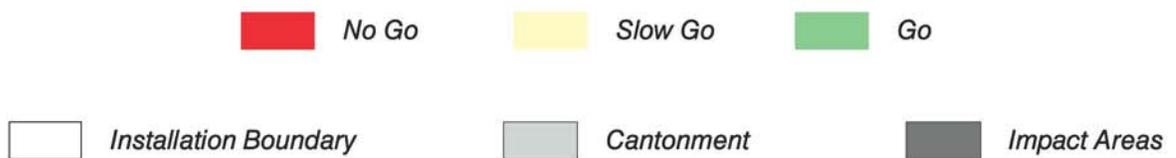


*Summer Maneuverability*



*Winter Maneuverability*

Legend

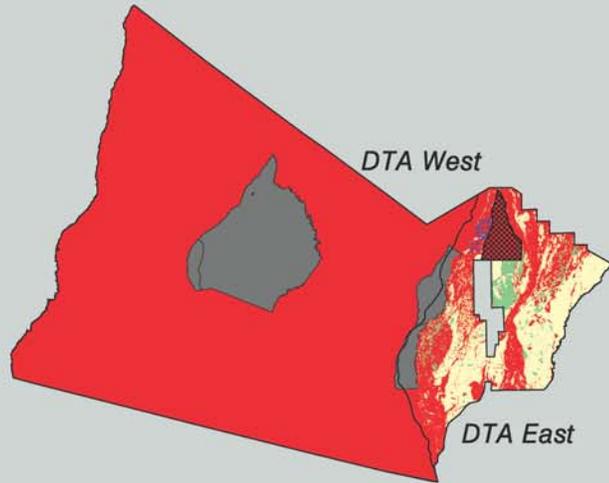


Source:  
Shoop et al. 2002

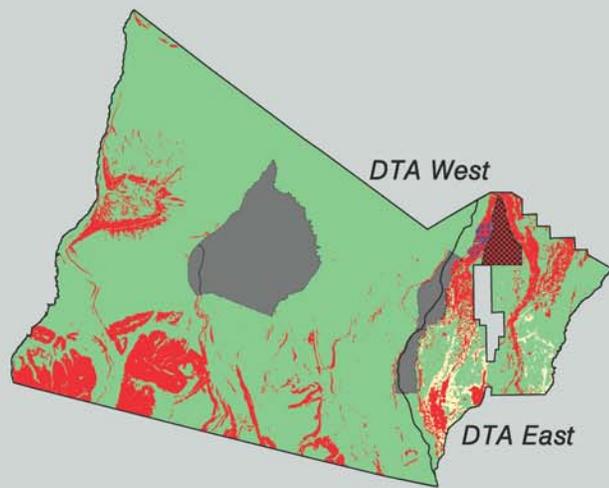


Figure 4.4.b

# Stryker Summer and Winter Maneuverability Donnelly Training Area



Summer Maneuverability



Winter Maneuverability

## Legend



No Go



Slow Go



Go



Installation Boundary



Fort Greely



Ranges



Impact Areas

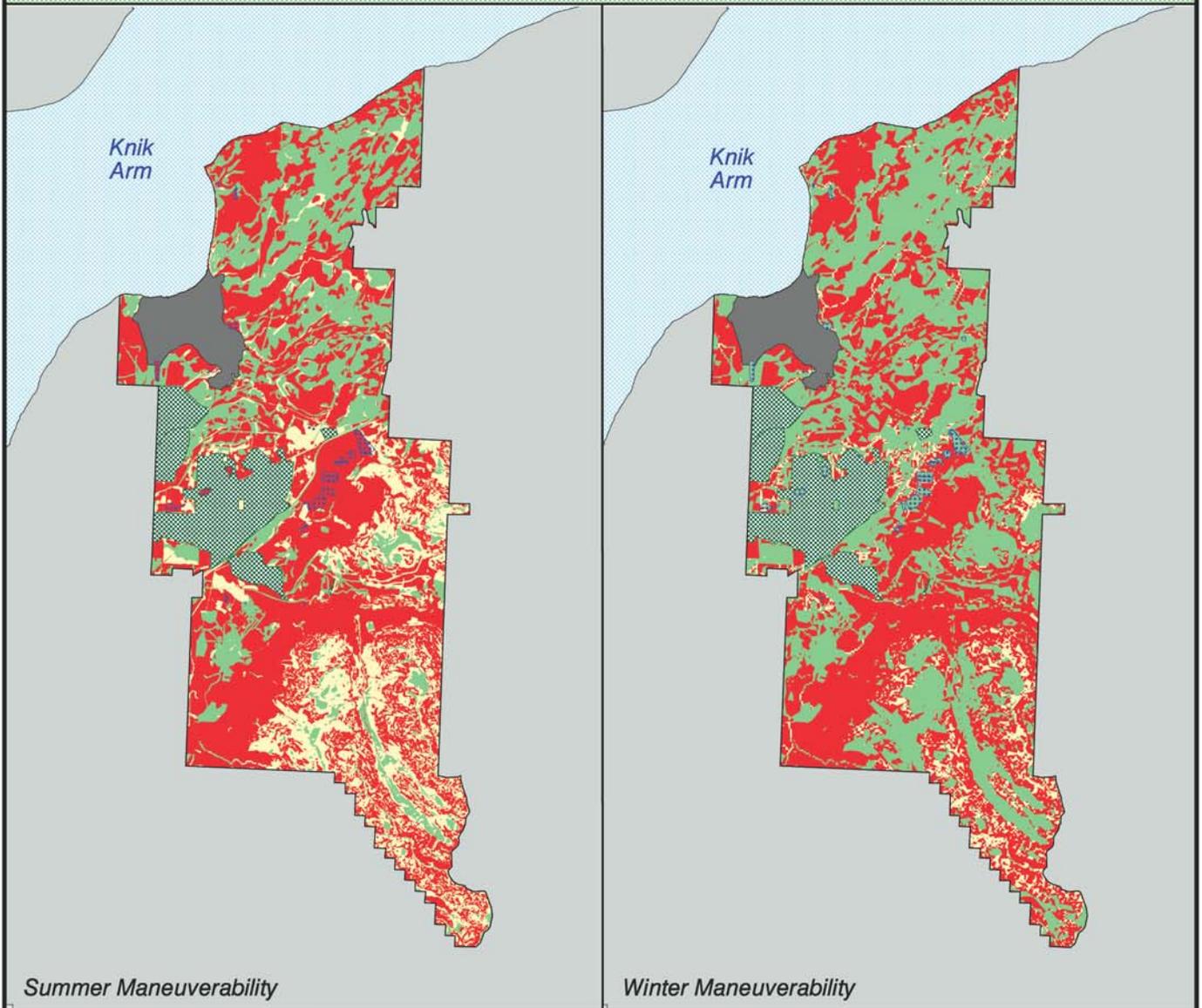
Source:  
Shoop et al. 2002

Scale: 1:1000000  
10 0 10 Miles



Figure 4.4.c

### Stryker Summer and Winter Maneuverability Fort Richardson



#### Legend

- No Go
- Slow Go
- Go
- Installation Boundary
- Cantonment
- Ranges
- Impact Areas

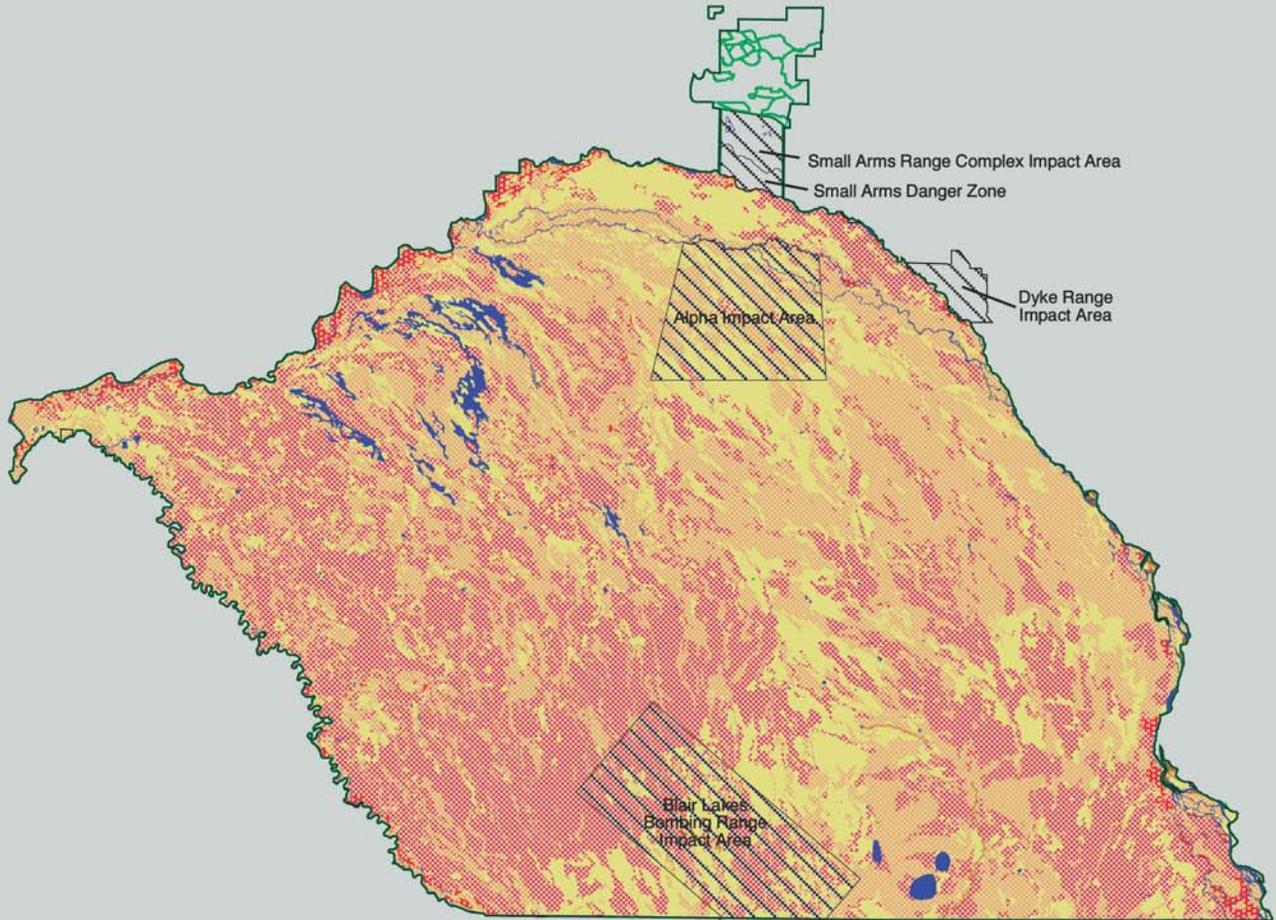
Source:  
Shoop et al. 2002

Scale: 1:250000  
5 0 5 Miles



Figure 4.11.a

*Fuel Types*  
*Fort Wainwright Main Post and Tanana Flats Training Area*



*Fuel Types*

-  *Spruce Lichen Woodland*
-  *Boreal Spruce*
-  *Boreal Mixed Wood*
-  *Grass/Herb*
-  *Barren Land*

**Legend**

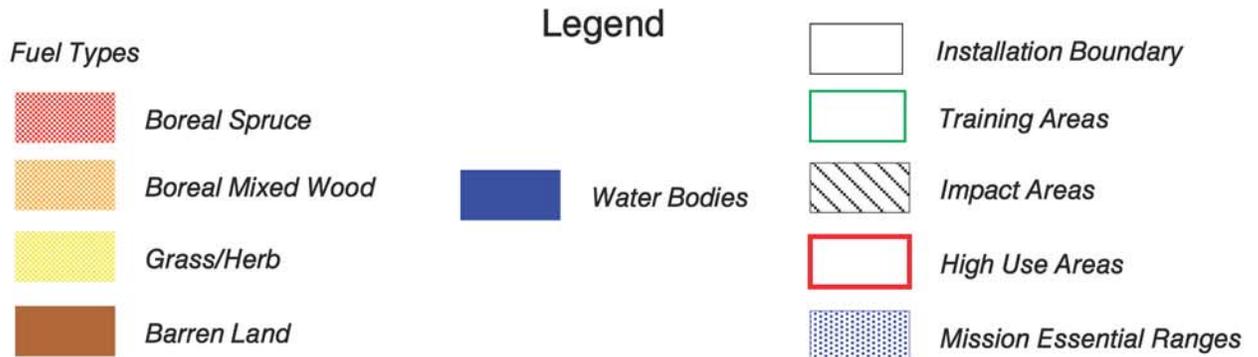
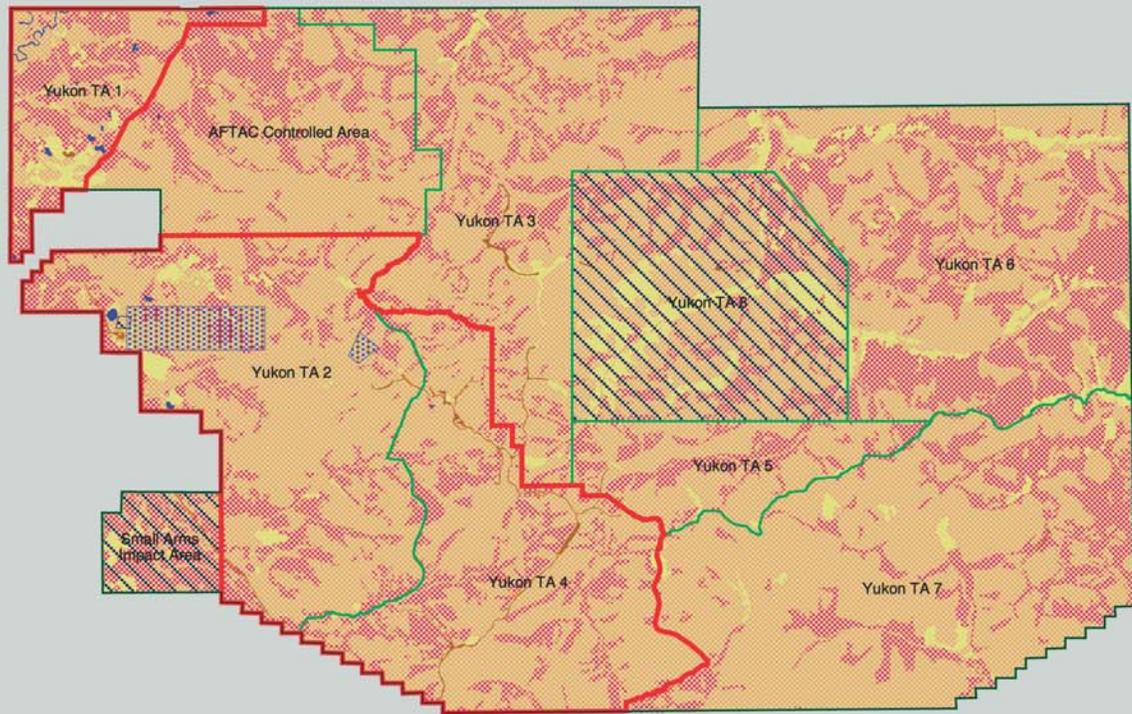
-  *Installation Boundary*
-  *Impact Areas*
-  *Training Areas*
-  *Mission Essential Ranges*
-  *Water Bodies*

Source:  
Jorgenson et al. 1999



Figure 4.11.b

*Fuel Types  
Yukon Training Area*

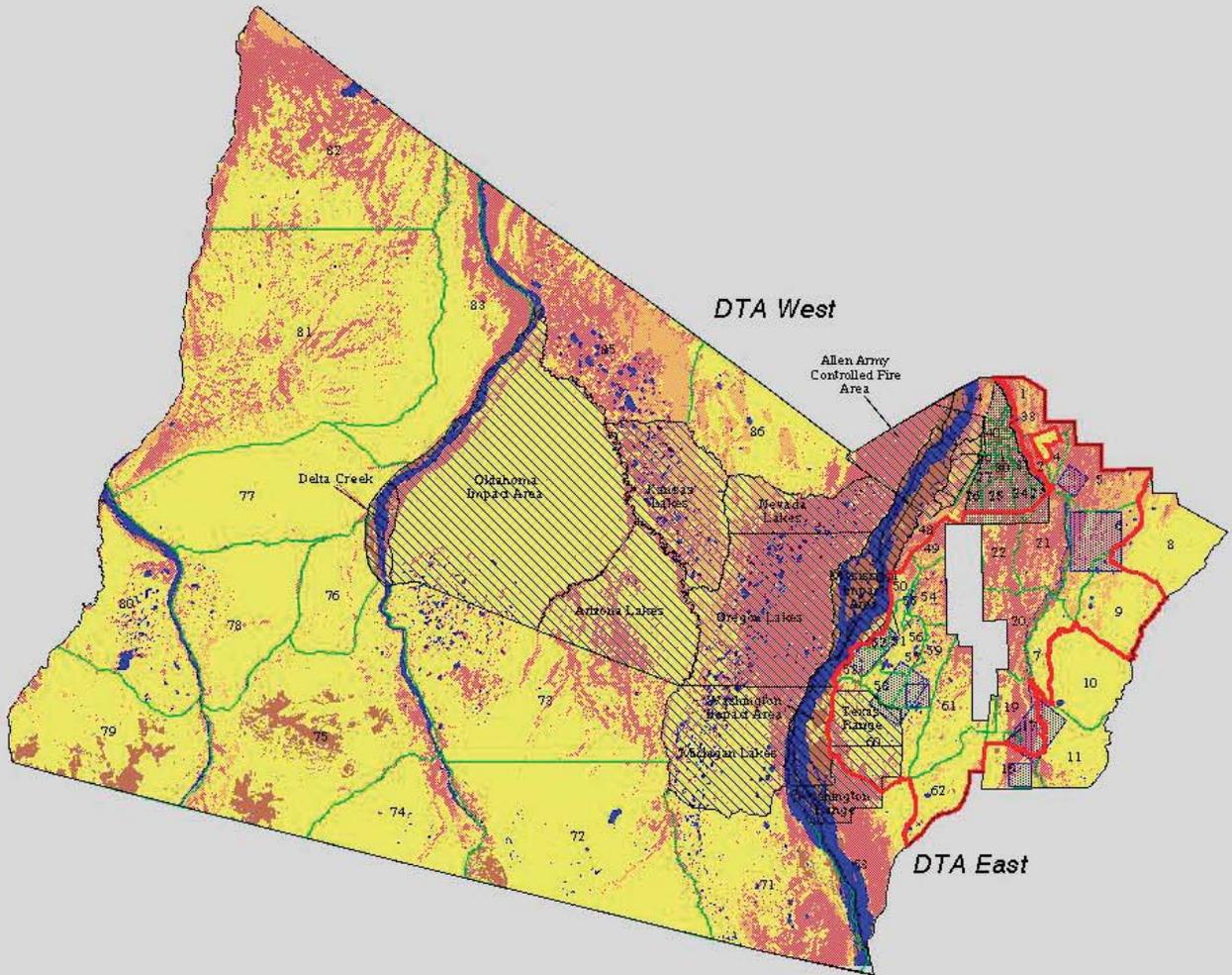


Source:  
Jorgenson et al. 1999



Figure 4.11.c

Fuel Types  
Donnelly Training Area



Legend

Fuel Types

- Boreal Spruce
- Boreal Mixed Wood
- Grass/Herb
- Barren Land

- Installation Boundary
- Fort Greely
- Water Bodies

- Impact Areas
- Training Areas
- High Use Areas
- Proposed Alternative Sites for Mission Essential Ranges

Source:  
Jorgenson et al. 2001

Scale: 1:500000  
10 0 10 Miles



Figure 4.11.d

### Fuel Types Fort Richardson

Legend

Fuel Types

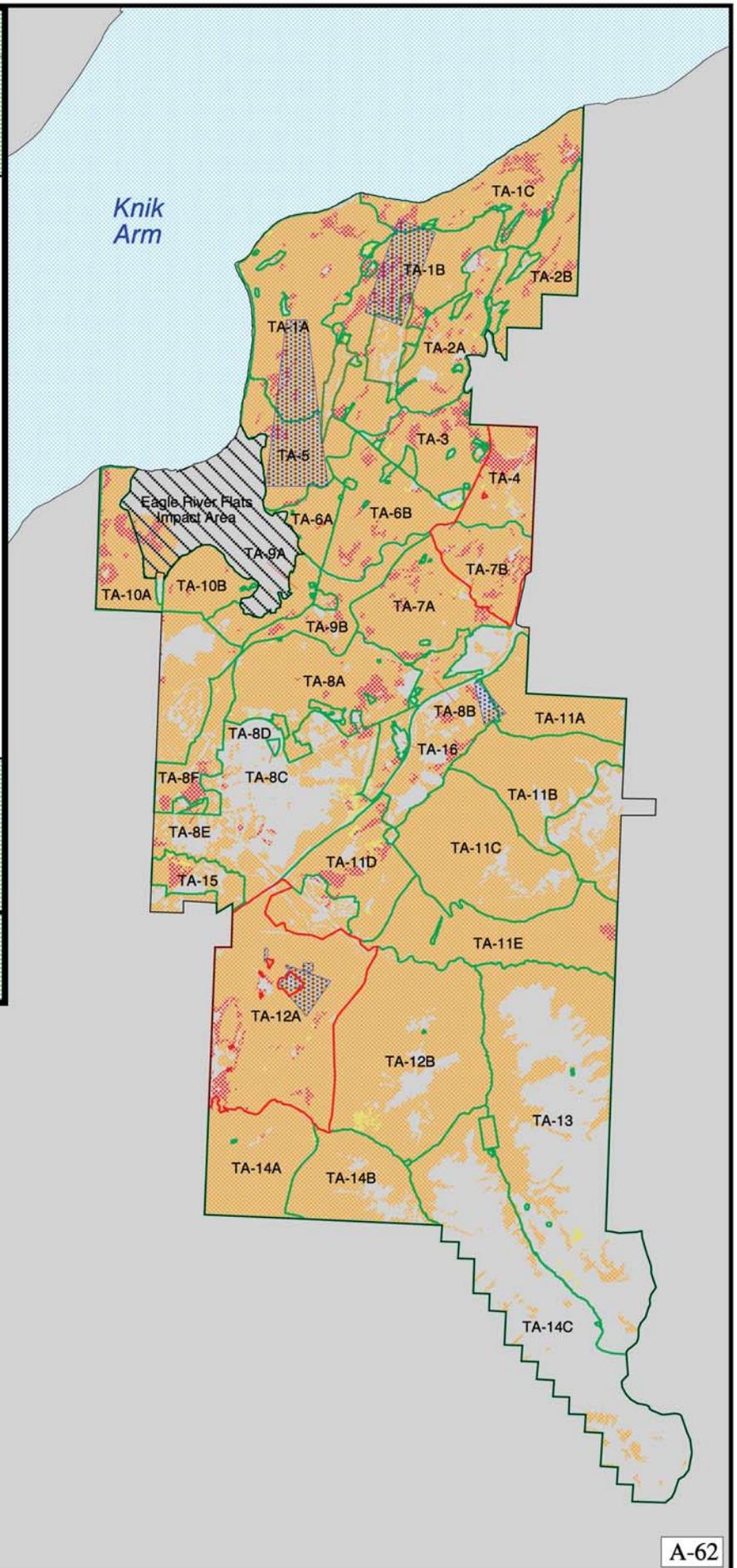
-  Boreal Spruce
-  Boreal Mixed Wood
-  Grass/Herb
  
-  Installation Boundary
-  Training Areas
-  Impact Area
-  Areas of Concern
-  Mission Essential Ranges

Scale: 1:150,000

1 0 1 Mile

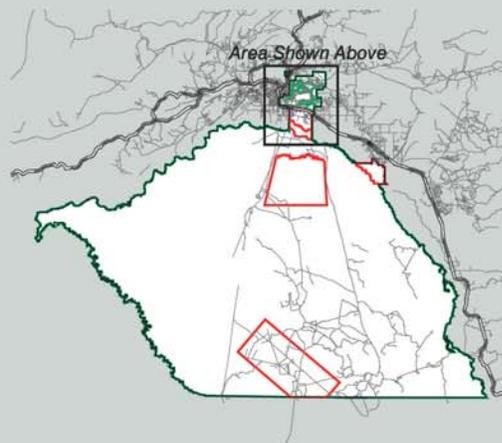
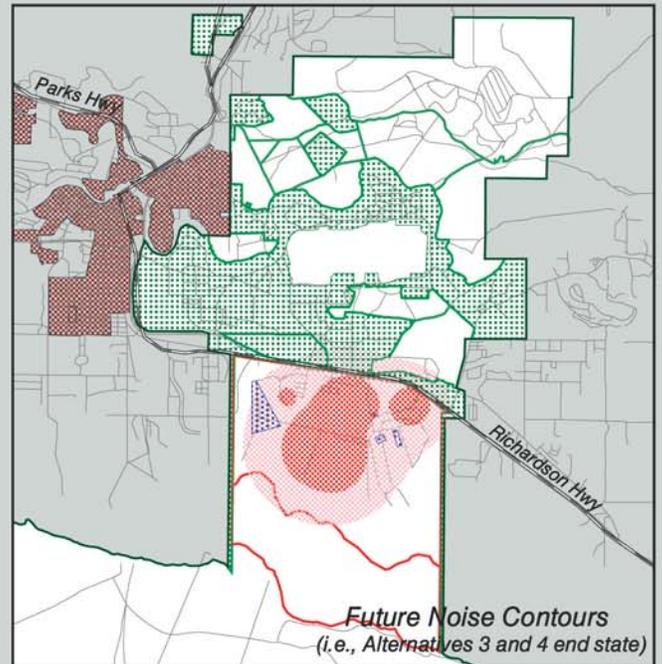
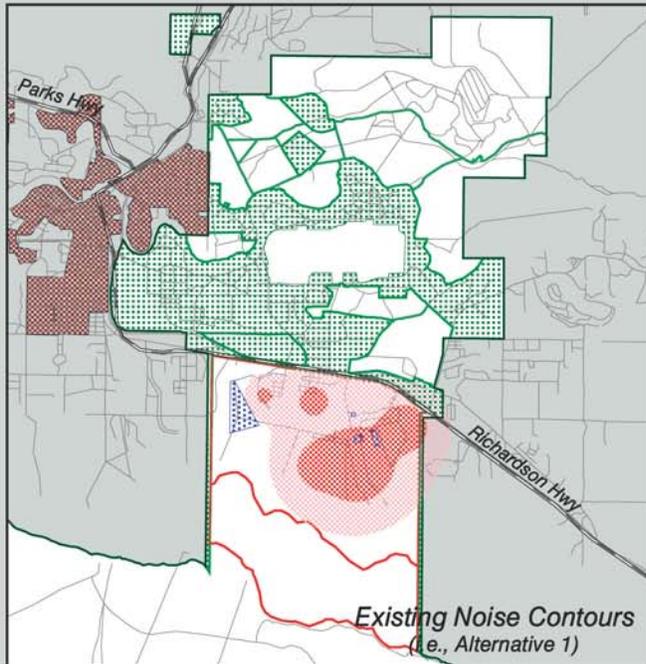


Source:  
Jogenson et al. 2002



# Figure 4.16.a

## Comparison of Existing and Projected Noise Contours<sup>1</sup> Fort Wainwright Main Post



### Legend

<sup>1</sup>Firing Points set in Interior portion of Artillery Range

#### Noise Zones

 Zone II  
Exposure to noise within these areas is considered significant

 Zone III  
Noise levels are so severe that noise-sensitive land uses should not be considered

 Installation Boundary

 Training Areas

 Impact Areas

 Highways

 Mission Essential Ranges

 Urban Areas

 Cantonment Area

 Roads

Source:  
USACHPPM 2003

Scale: 1:150000

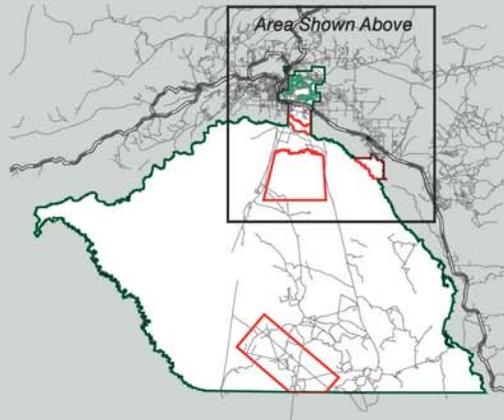
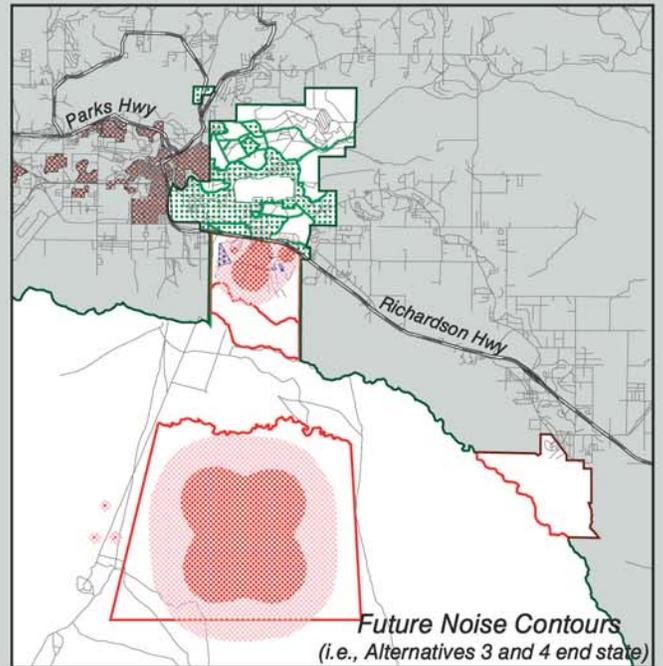
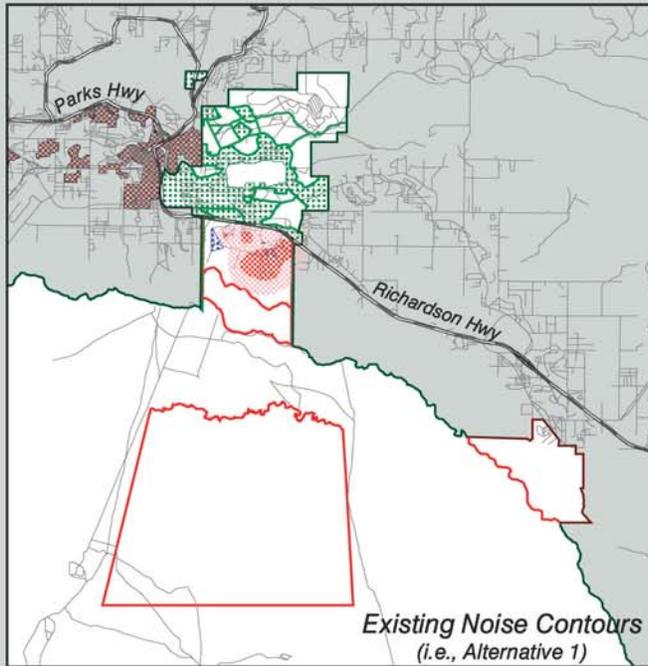
5 0 5 Miles



A-63

# Figure 4.16.b

## Comparison of Existing and Projected Noise Contours<sup>1</sup> Tanana Flats Training Area



### Legend

<sup>1</sup> Firing Points set in interior portion of Artillery Range

#### Noise Zones

 Zone II  
Exposure to noise within these areas is considered significant

 Zone III  
Noise levels are so severe that noise-sensitive land uses should not be considered

 Installation Boundary

 Training Areas

 Impact Areas

 Highways

 Mission Essential Ranges

 Urban Areas

 Cantonment Area

 Roads

Source:  
USACHPPM 2003

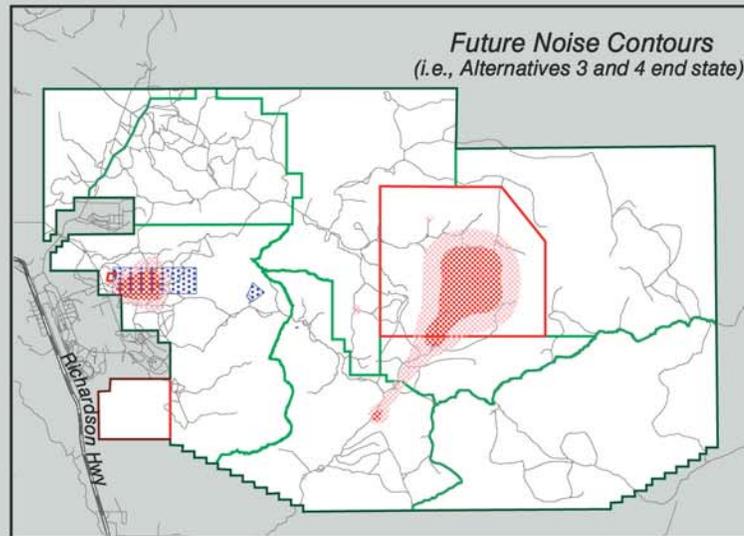
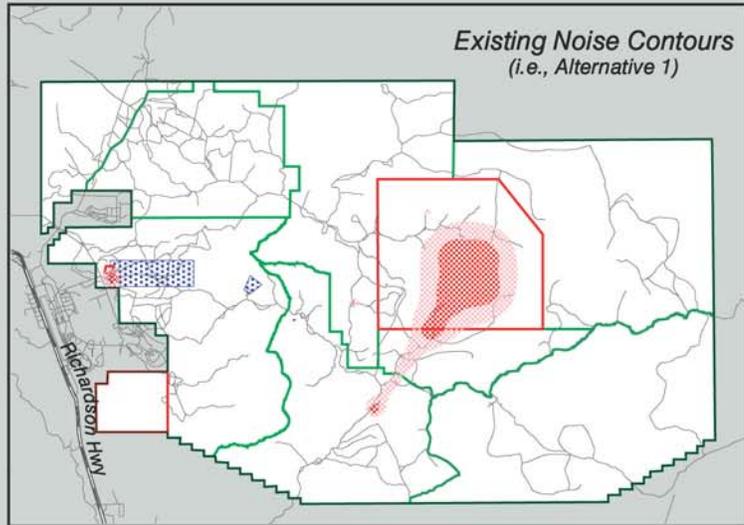
Scale: 1:350000

10 0 10 Miles



# Figure 4.16.c

## Comparison of Existing and Projected Noise Contours Yukon Training Area



### Legend

#### Noise Zones



**Zone II**  
Exposure to noise within these areas is considered significant



**Zone III**  
Noise levels are so severe that noise-sensitive land uses should not be considered



**Installation Boundary**



**Training Areas**



**Impact Areas**



**Mission Essential Ranges**



**Roads**



**Highways**

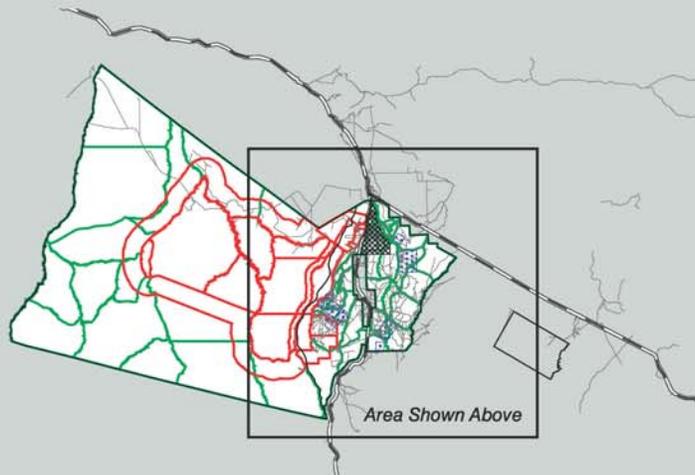
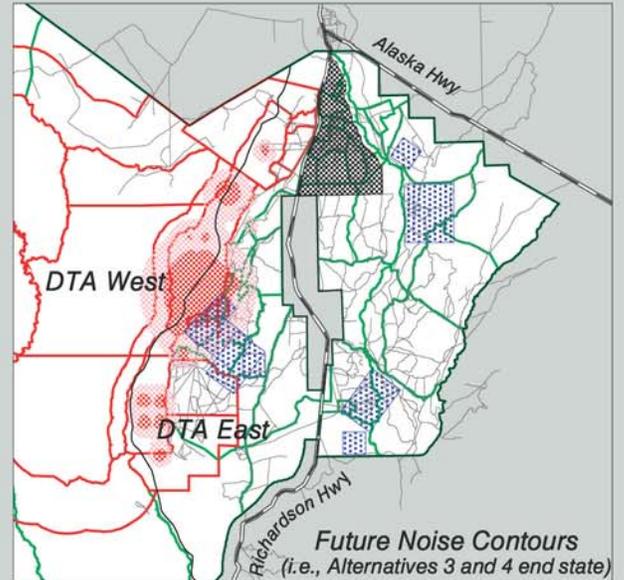
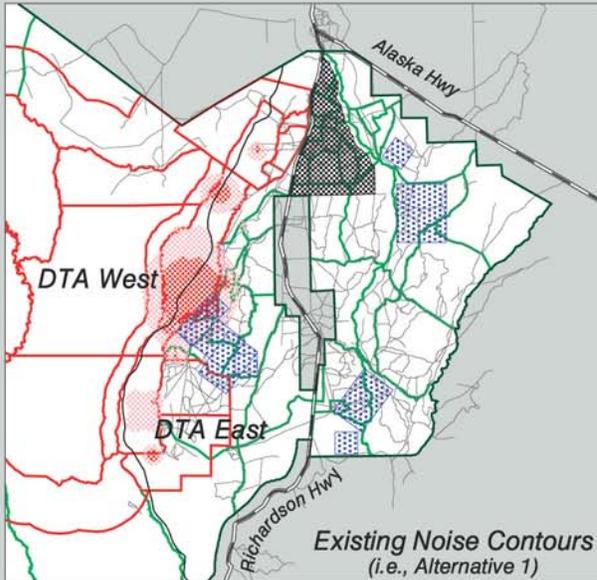
Source:  
USACHPPM 2003

Scale: 1:500000



# Figure 4.16.d

## Comparison of Existing and Projected Noise Contours Donnelly Training Area



### Noise Zones

-  **Zone II**  
Exposure to noise within these areas is considered significant
-  **Zone III**  
Noise levels are so severe that noise-sensitive land uses should not be considered

### Legend

-  **Impact Areas**
-  **Training Areas**
-  **Highways**
-  **Roads**
-  **Installation Boundary**
-  **Fort Greely**
-  **Proposed Alternative Sites for Mission Essential Ranges**

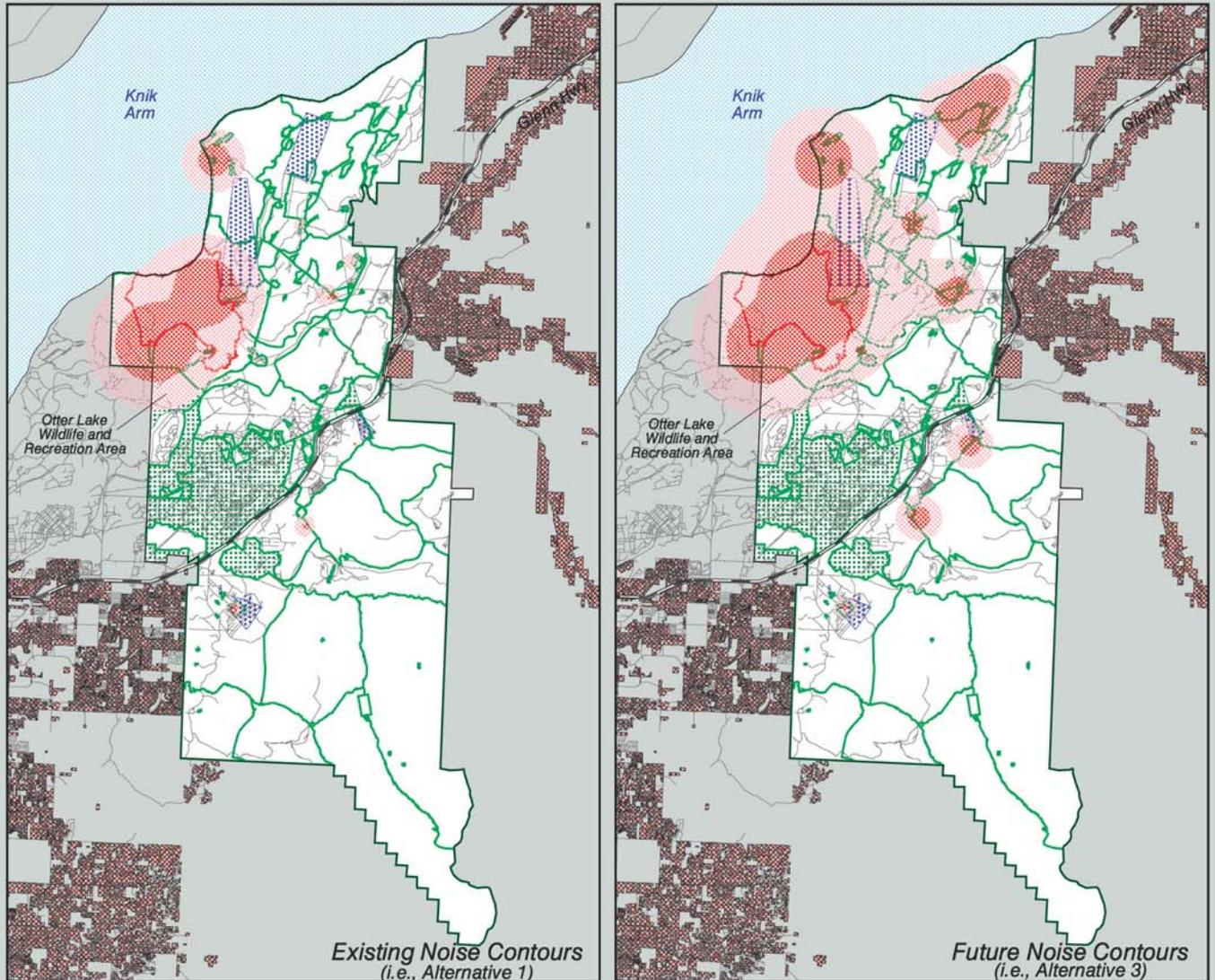
Source:  
USACHPPM 2003

Scale: 1:500000



# Figure 4.16.e

## Comparison of Existing and Projected Noise Contours<sup>1</sup> Alternative 3 Fort Richardson



### Legend

<sup>1</sup> Firing Points set in Interior portion of Artillery Range

#### Noise Zones

 Zone II  
Exposure to noise within these areas is considered significant

 Zone III  
Noise levels are so severe that noise-sensitive land uses should not be considered

 Installation Boundary

 Training Areas

 Impact Areas

 Cantonment Area

 Mission Essential Ranges

 Urban Areas

 Highways

 Roads

Source:  
USACHPPM 2003

Scale: 1:250000

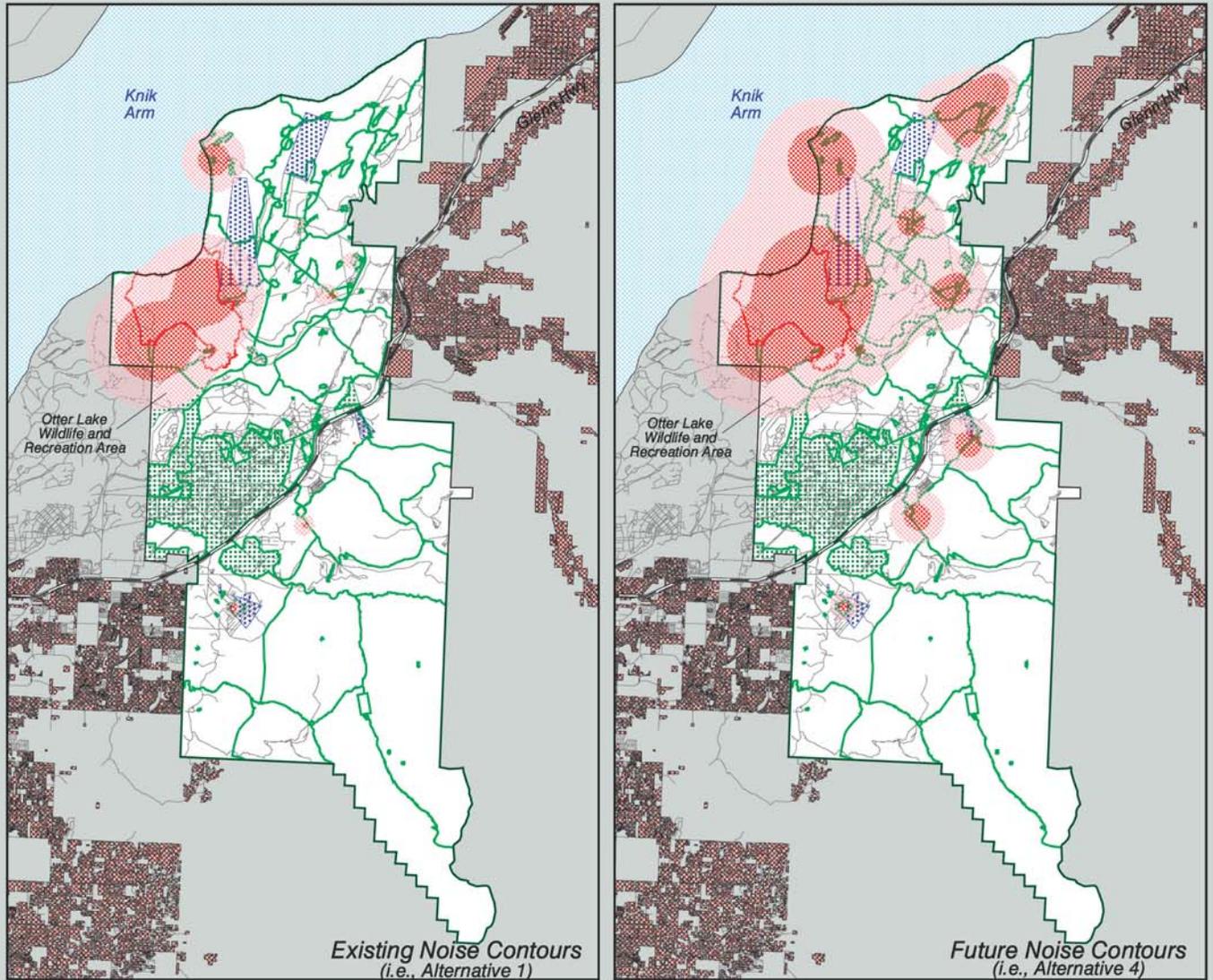
5 0 5 Miles




A-67

# Figure 4.16.f

## Comparison of Existing and Projected Noise Contours<sup>1</sup> Alternative 4 Fort Richardson



### Legend

<sup>1</sup> Firing Points set in Interior portion of Artillery Range

#### Noise Zones

 Zone II  
Exposure to noise within these areas is considered significant

 Zone III  
Noise levels are so severe that noise-sensitive land uses should not be considered

 Installation Boundary

 Training Areas

 Impact Areas

 Cantonment Area

 Mission Essential Ranges

 Urban Areas

 Highways

 Roads

Source:  
USACHPPM 2003

Scale: 1:250000



Figure 4.20.a

Interior Alaska Region of Interest  
Infrastructure

Legend

-  USARAK
-  National Parks
-  Fort Greely
-  Eielson Air Force Base
-  Clear Missile Early Warning Station
-  Towns
-  Mine Locations
-  Highways
-  Roads
-  Railroads
-  Trans-Alaska Pipeline
-  Rivers
-  Glaciers

Scale: 1:800000

10 0 10 Miles



SOURCE:  
USARAK Natural Resources 2003

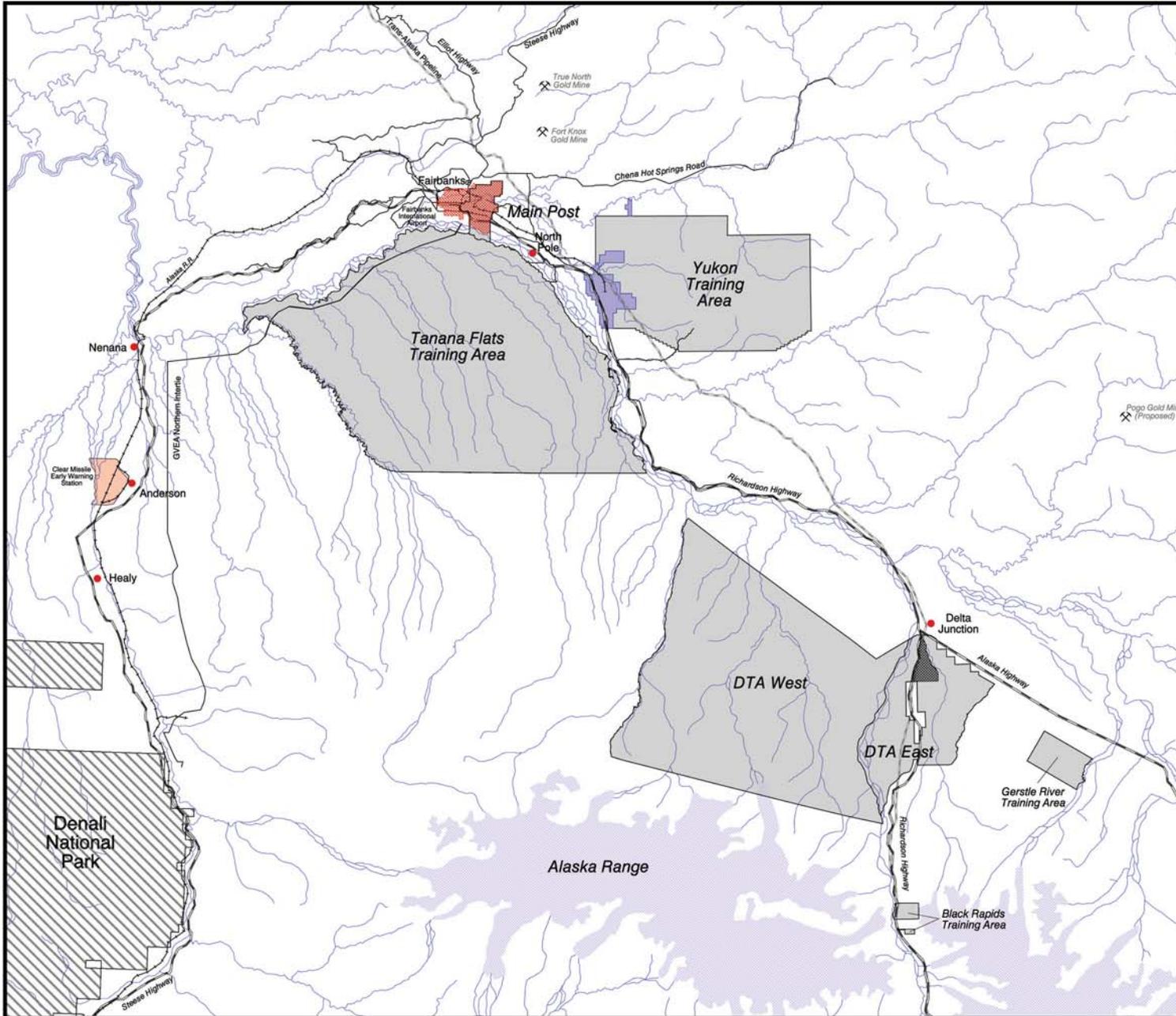
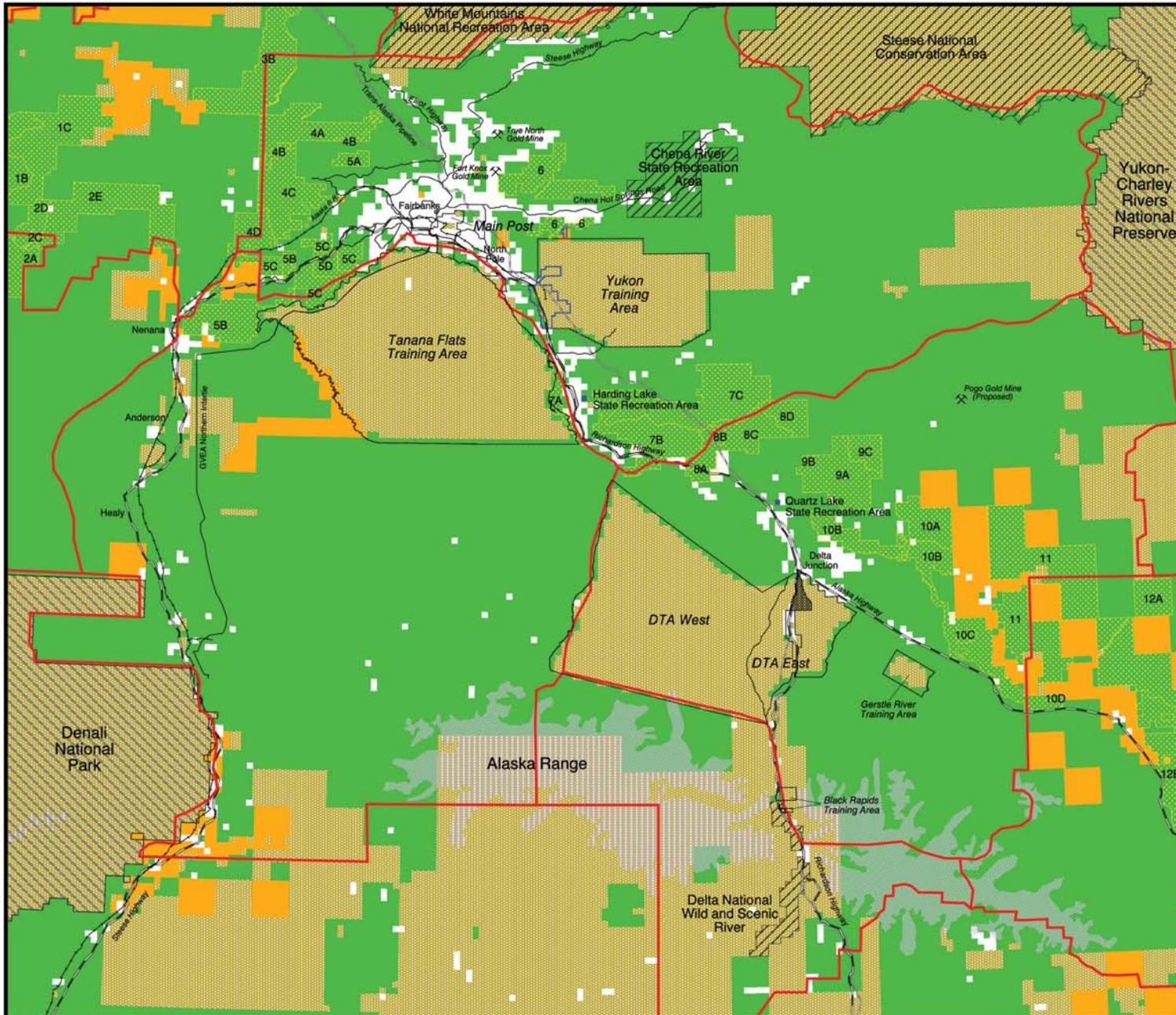


Figure 4.20.b

Interior Alaska Region of Interest  
Land Ownership



Legend

- USARAK
- Eielson Air Force Base
- Fort Greely
- National Parks
- National / State Recreation Areas
- Federal
- Native
- Private
- State
- Tanana Valley State Forest Units
- Tanana Valley Planning Areas
- State Recreation Areas
- Mine Locations
- Highways
- Railroads
- Trans-Alaska Pipeline
- Glaciers

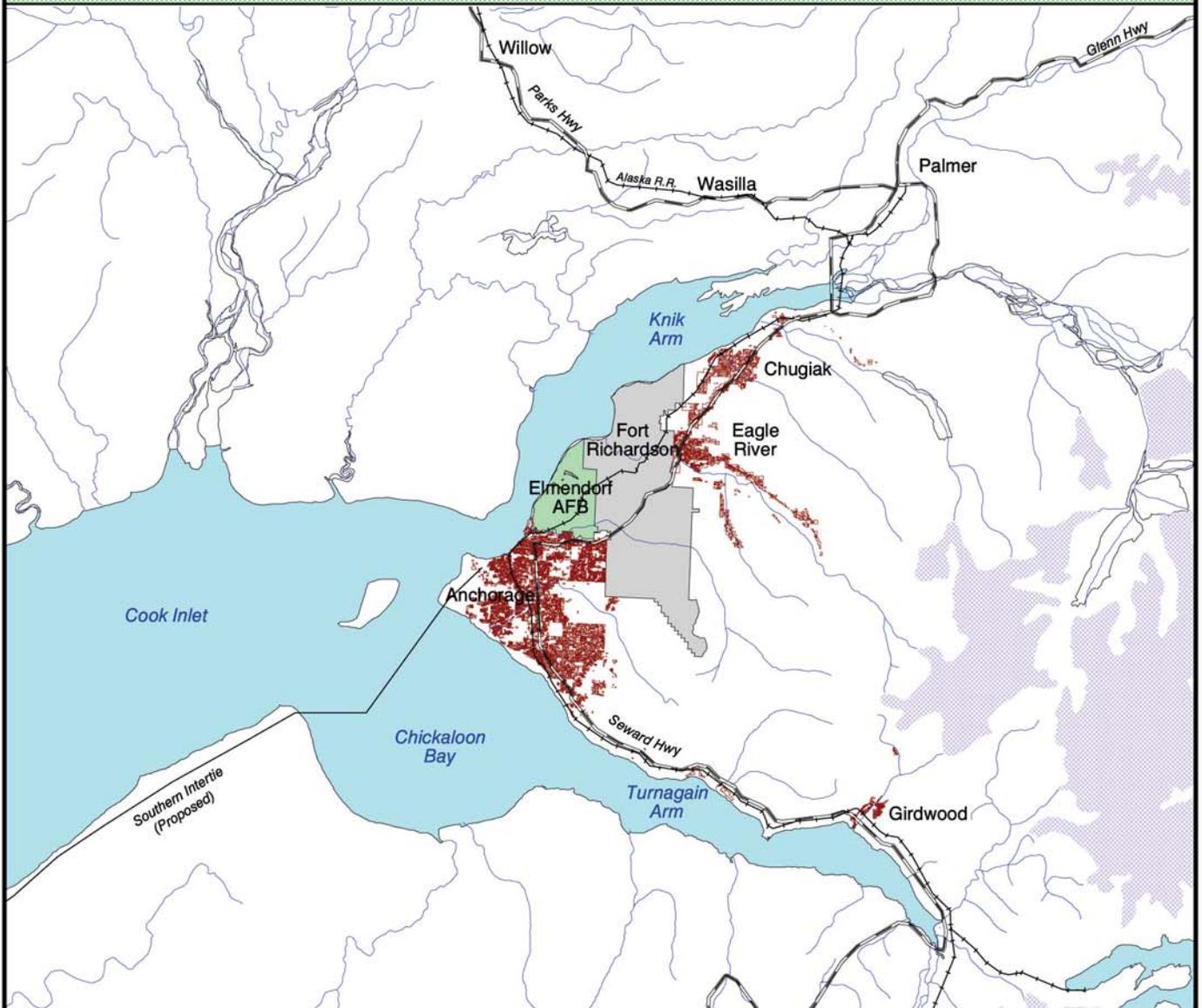
Scale: 1:1000000



SOURCE:  
USARAK Natural Resources 2003

Figure 4.20.c

South-Central Alaska / Anchorage Area Region of Interest Infrastructure



Legend

- Fort Richardson
- Elmendorf Air Force Base
- Urban Areas
- Glaciers
- Highways
- Railroads
- Rivers

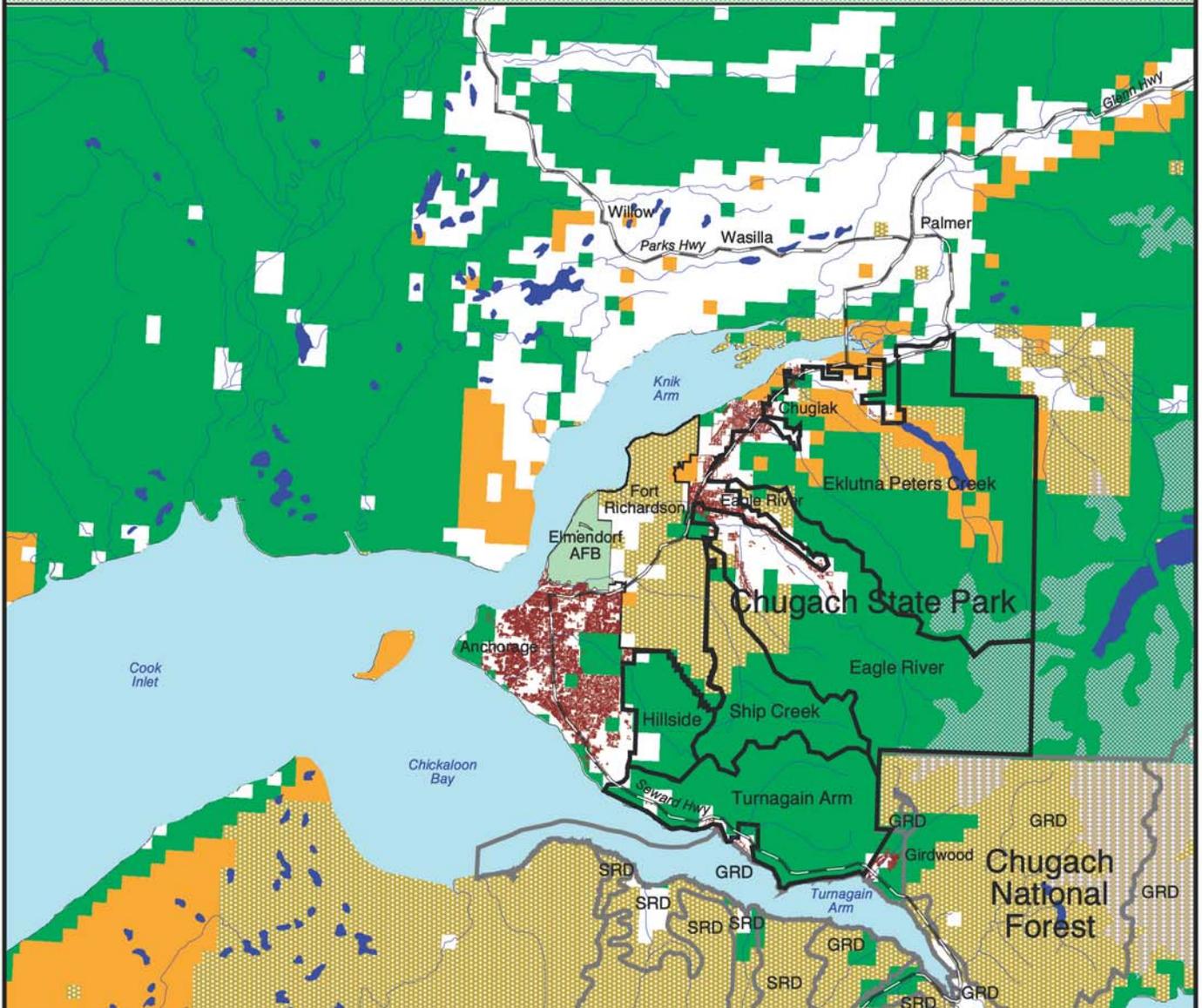
Source: USARAK Natural Resources 2003

Scale: 1:750000  
10 0 10 Miles



Figure 4.20.d

South-Central Alaska / Anchorage Area Region of Interest  
Land Ownership



Legend

- |  |                                   |  |         |  |          |
|--|-----------------------------------|--|---------|--|----------|
|  | Fort Richardson                   |  | Federal |  | Highways |
|  | Elmendorf Air Force Base          |  | State   |  | Streams  |
|  | Urban Areas                       |  | Private |  | Lakes    |
|  | Chugach National Forest Districts |  | Native  |  | Glaciers |
|  | Chugach State Park                |  |         |  |          |

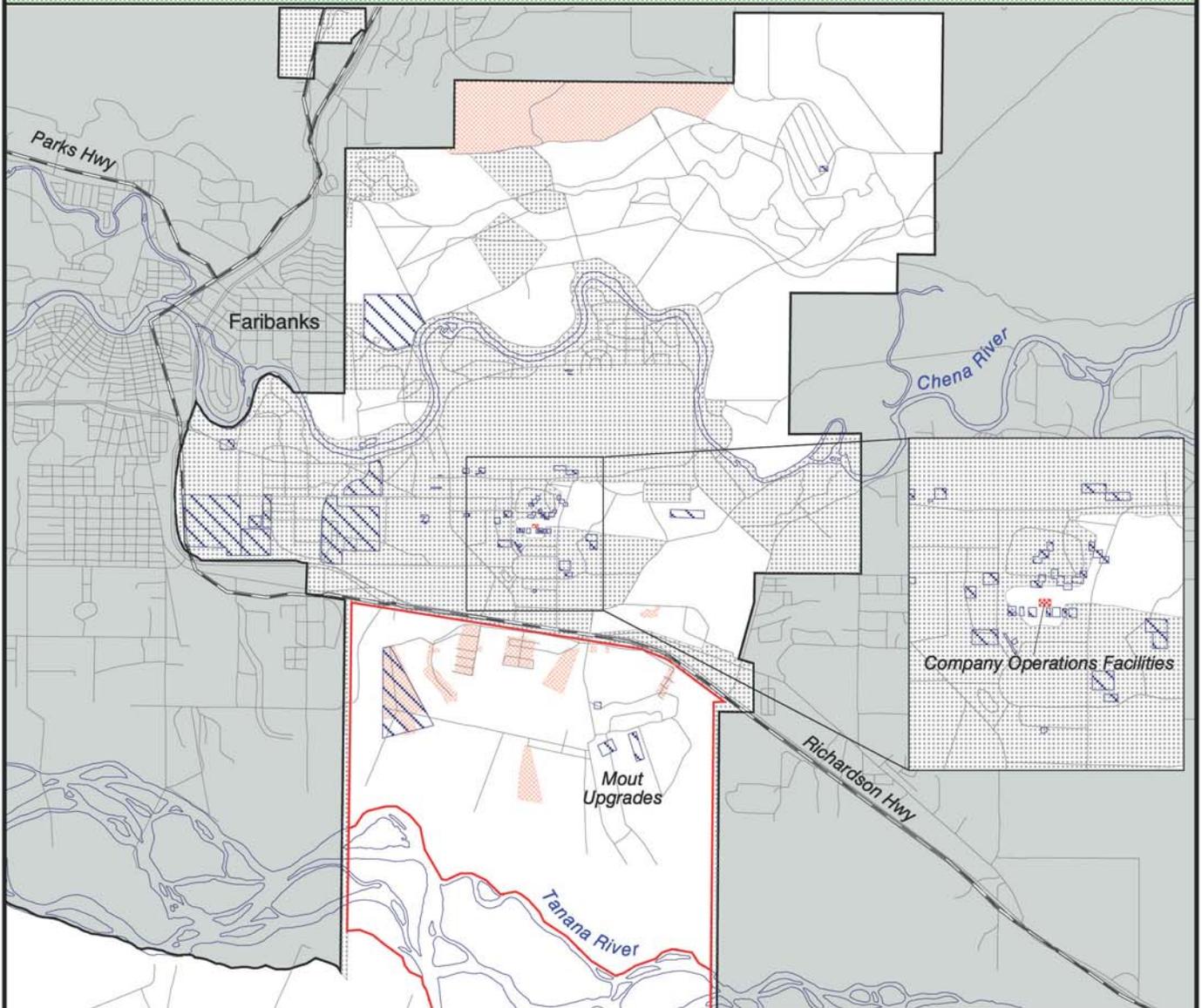
Source:  
USARAK Natural Resources 2003

Scale: 1:750000  
10 0 10 Miles



Figure 4.20.e

Existing Ranges, Mission Essential Projects, and Proposed SBCT<sup>1</sup> Construction Projects at Fort Wainwright



Legend

- |   |   |
|---|---|
|  Existing Ranges                     |  Installation Boundary |
|  Mission Essential Projects          |  Cantonment Area       |
|  Proposed SBCT Construction Projects |  Highways              |
|  Impact Areas                        |  Roads                 |
|   |  Streams               |

<sup>1</sup>Stryker Brigade Combat Team

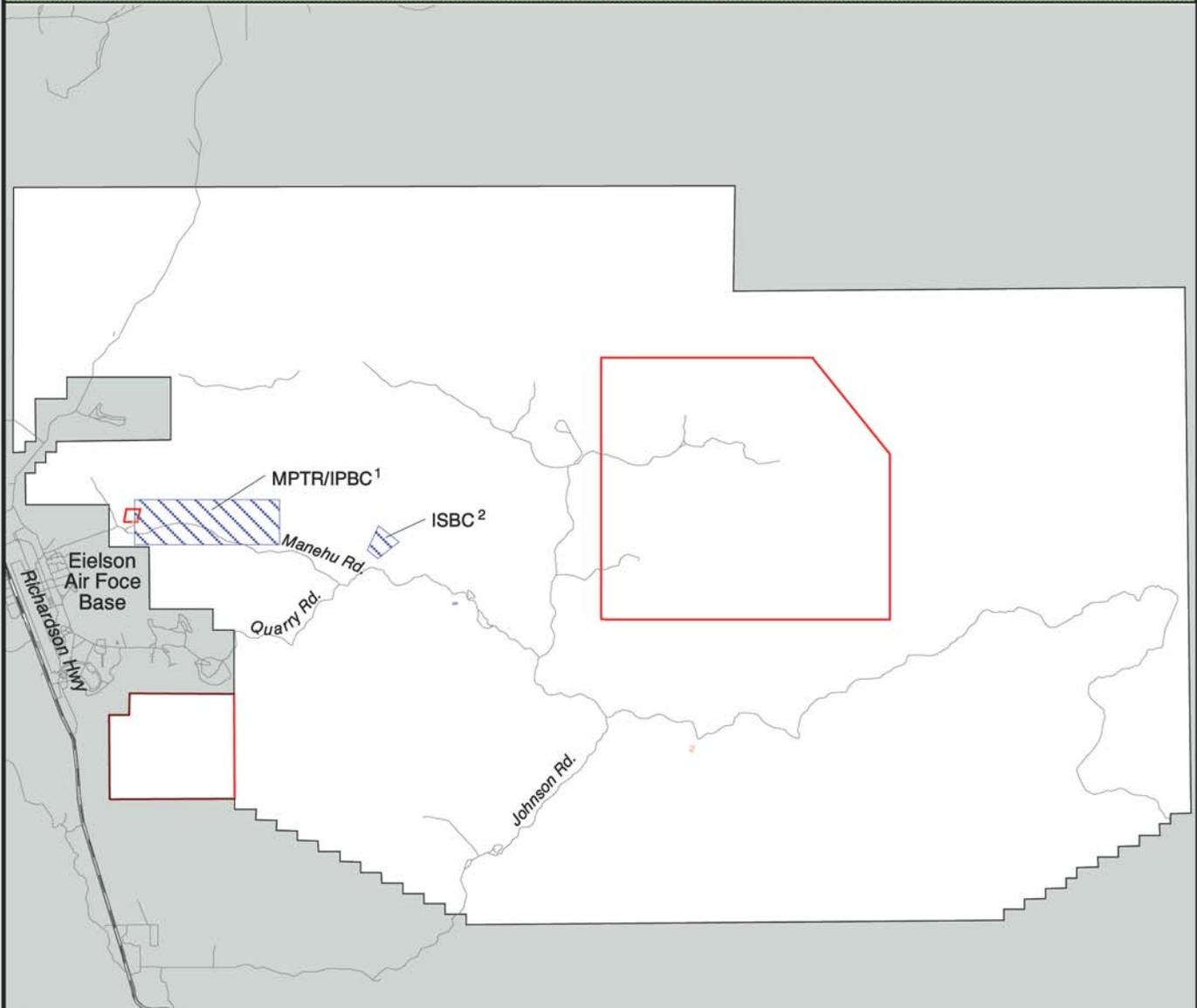
Source:  
USARAK Natural Resources 2003

Scale: 1:75000  
1 0 1 Mile



Figure 4.20.f

*Existing and Mission Essential Ranges  
at Yukon Training Area*



Legend

-  Existing Ranges
-  Mission Essential Ranges
-  Impact Areas
-  Installation Boundary
-  Highways
-  Roads

<sup>1</sup> Multi-Purpose Training Range / Infantry Platoon Battle Course  
<sup>2</sup> Infantry Squad Battle Course

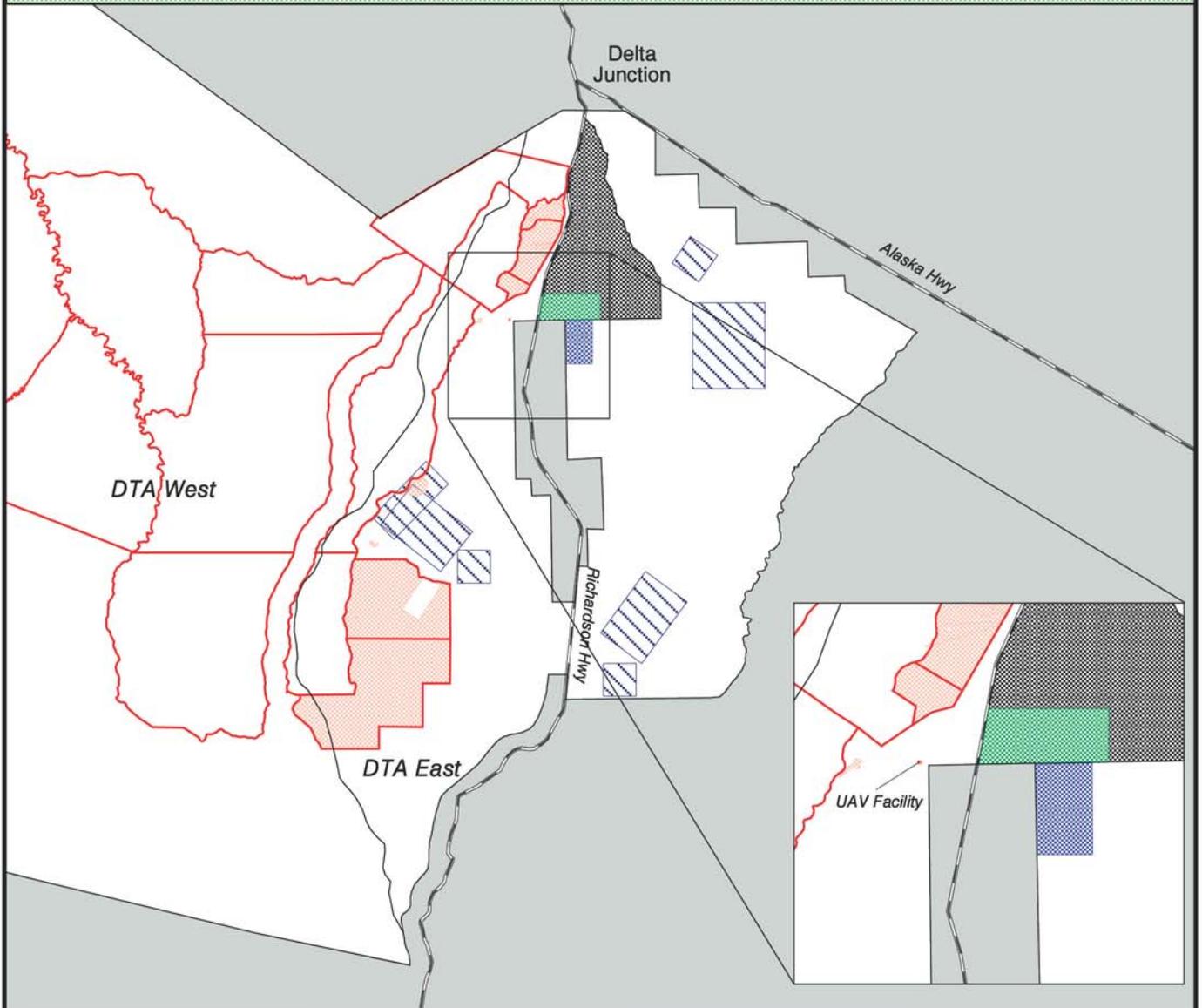
Source:  
USARAK Natural Resources 2003

Scale: 1:250000



Figure 4.20.g

Existing Ranges, Proposed Mission Essential Ranges, Proposed SBCT<sup>1</sup> Construction Projects, and Other Military Construction Projects at Donnelly Training Area



Legend

- Existing Ranges
- Proposed Alternative Sites for Mission Essential Ranges
- Proposed SBCT Construction Projects
- Impact Areas
- Highways
- Installation Boundary
- Fort Greely
- Cold Regions Test Center Automotive Test Complex
- Space and Missile Defense System

<sup>1</sup>Stryker Brigade Combat Team

Source:  
USARAK Natural Resources 2003

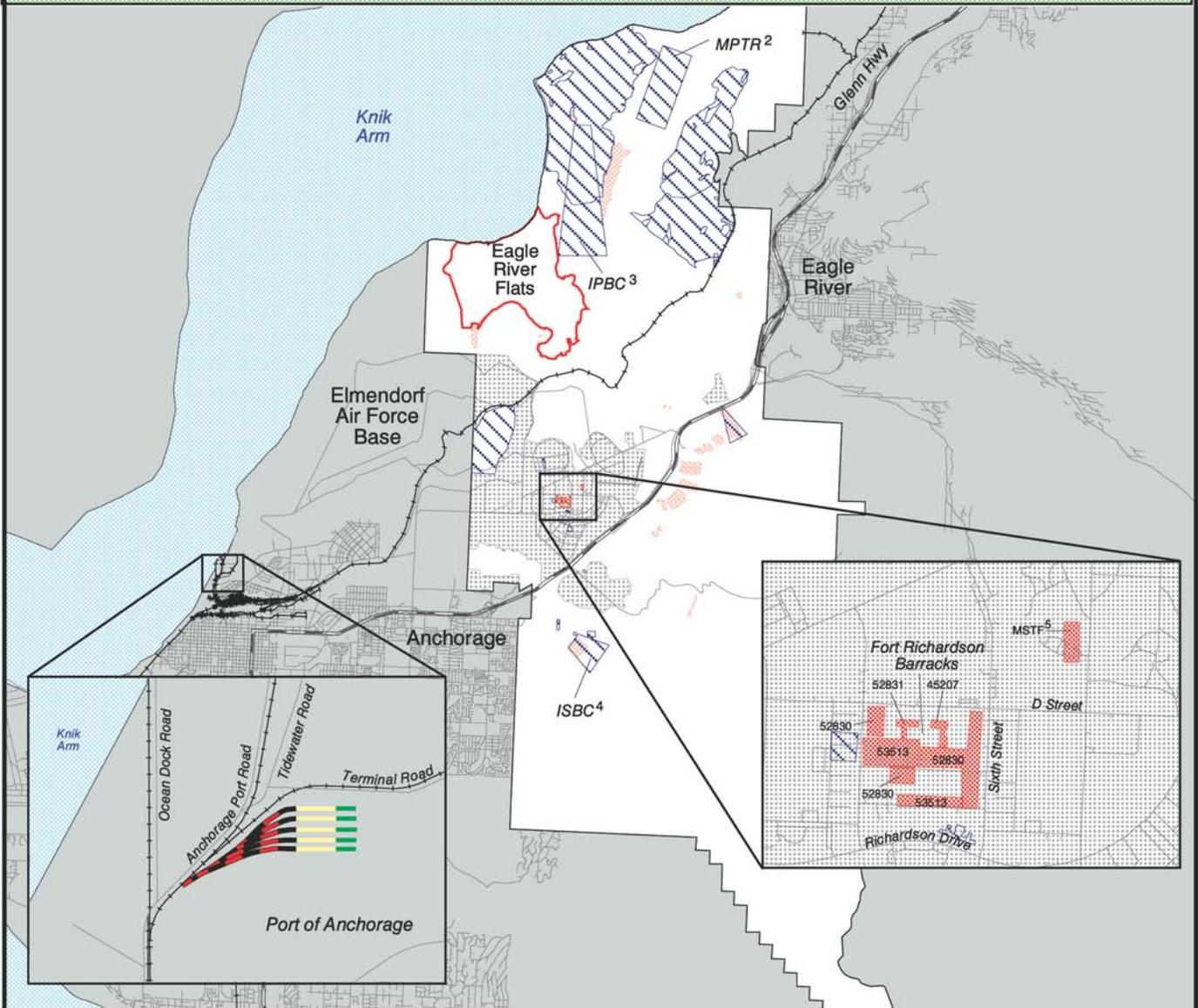
Scale: 1:300000

5 0 5 Miles



# Figure 4.20.h

## Existing Ranges, Mission Essential Projects, and Proposed SBCT<sup>1</sup> Construction Projects at Fort Richardson



	Installation Boundary	<b>Legend</b>	<b>Port of Anchorage SBCT Project</b>		
	Existing Ranges			 Highways	 Ramps
	Mission Essential Projects			 Roads	 New Rail Spurs
	Proposed SBCT Construction Projects			 Railroads	 Rail Platforms
	Impact Area				
	Cantonment Area				

<sup>1</sup> Stryker Brigade Combat Team  
<sup>2</sup> Multi-Purpose Training Range  
<sup>3</sup> Infantry Platoon Battle Course  
<sup>4</sup> Infantry Squad Battle Course  
<sup>5</sup> Mission Support Training Facility

Source:  
USARAK  
Natural Resources 2003

