



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

Willow Master Development Plan

Supplemental Environmental Impact Statement

FINAL

Volume 6: Appendix A.5

Figures 3.16.1 to 3.16.51

January 2023

Prepared by:

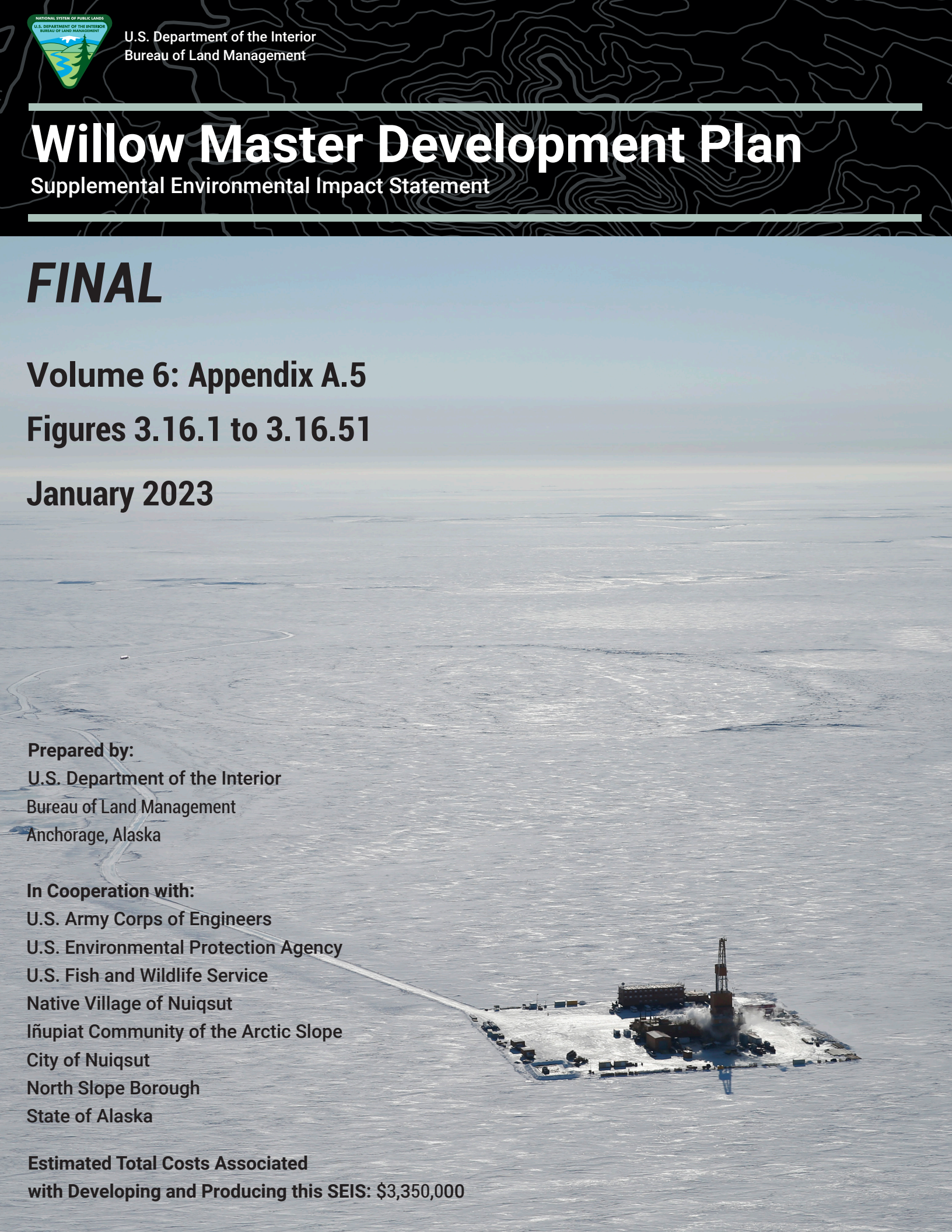
U.S. Department of the Interior
Bureau of Land Management
Anchorage, Alaska

In Cooperation with:

U.S. Army Corps of Engineers
U.S. Environmental Protection Agency
U.S. Fish and Wildlife Service
Native Village of Nuiqsut
Iñupiat Community of the Arctic Slope
City of Nuiqsut
North Slope Borough
State of Alaska

Estimated Total Costs Associated

with Developing and Producing this SEIS: \$3,350,000



Mission

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

Cover Photo Illustration: North Slope Alaska oil rig during winter drilling.

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Willow Master Development Plan

Appendix A.5

Figures 3.16.1 to 3.16.51

January 2023

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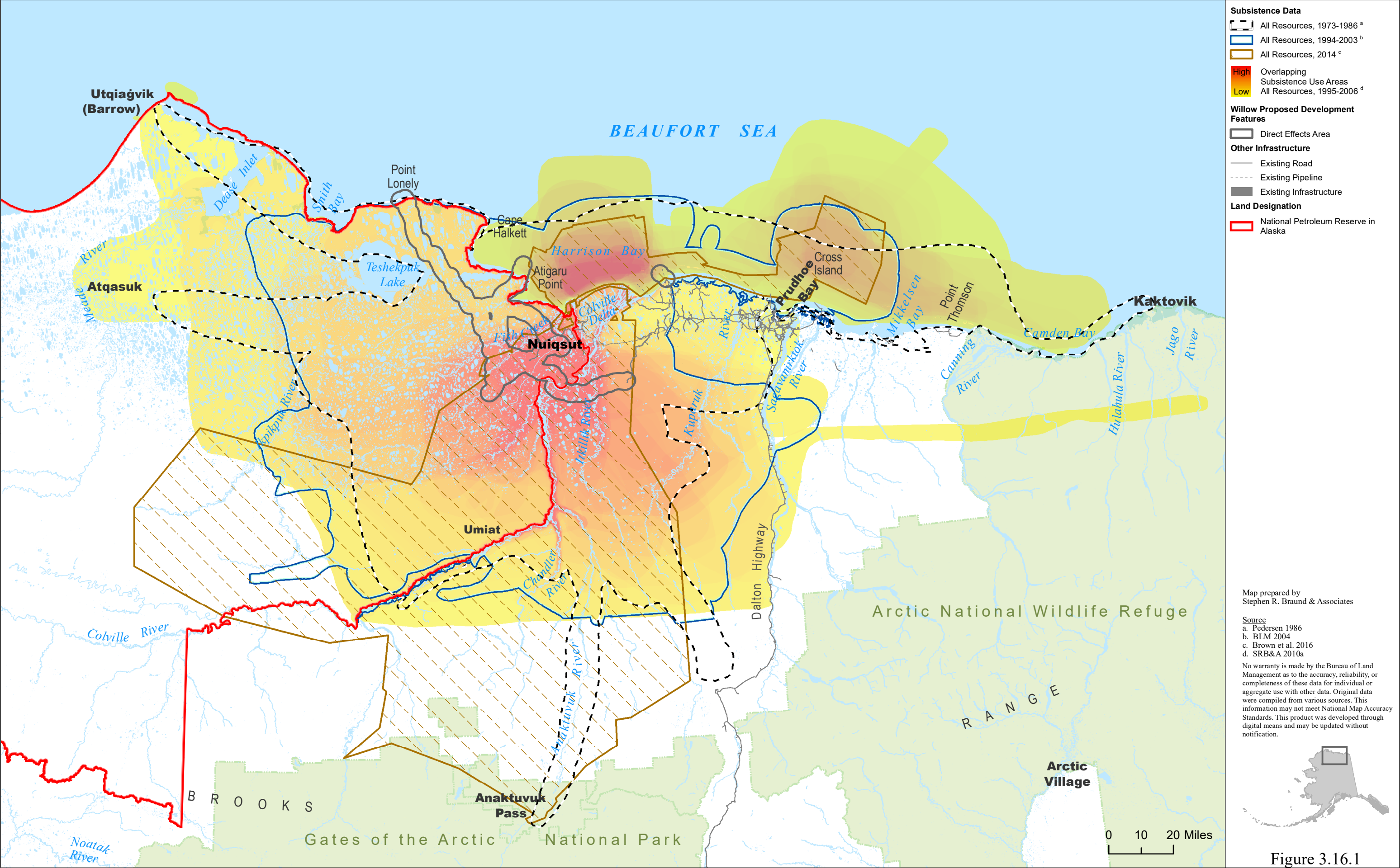
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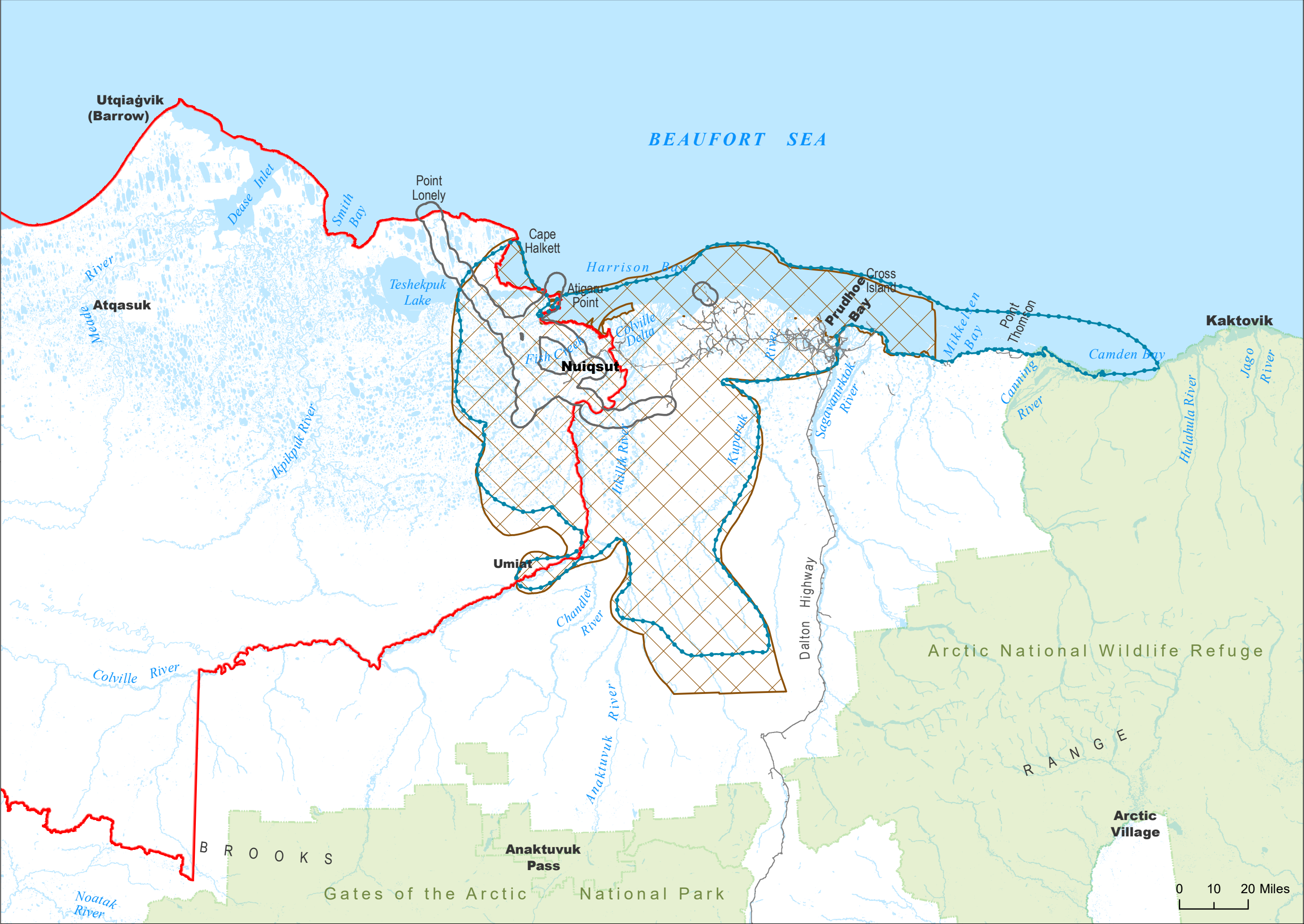
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Subsistence Data

- All Resources, Early 1970s
- All Resources, Lifetime Previous to 1979^b

Willow Proposed Development Features

- Direct Effects

Other Infrastructure

- Existing Road
- Existing Pipeline
- Existing Infrastructure

Land Designation

- National Petroleum Reserve in Alaska

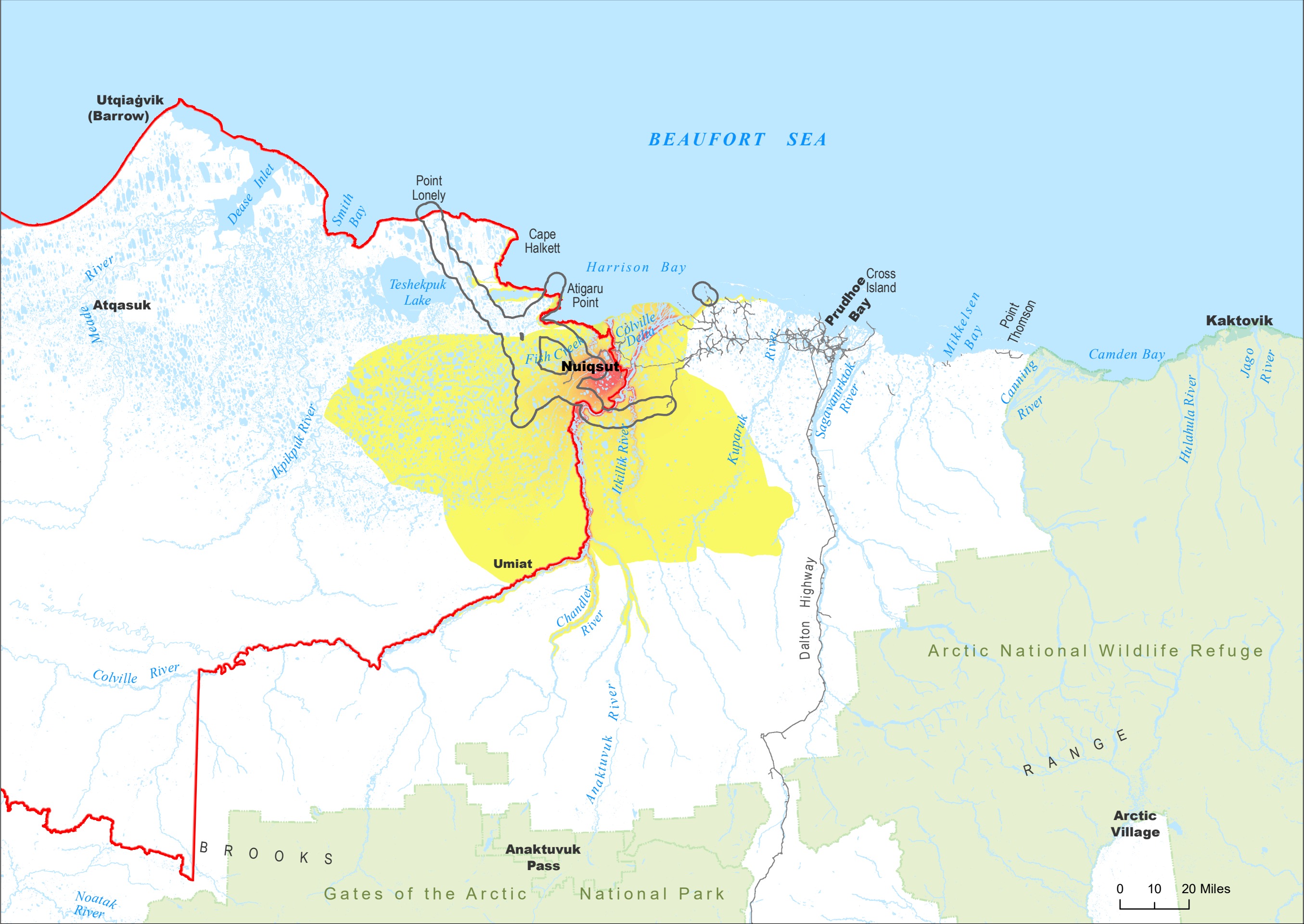
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Source
a. Brown 1979
b. Pedersen 1979

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0 10 20 Miles

Figure 3.16.2



Subsistence Data

High Overlapping Subsistence Use Areas^a
Low Caribou, January 2008 through December 2019

Willow Proposed Development Features

Direct Effects Area

Other Infrastructure

Existing Road
 Existing Pipeline
 Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

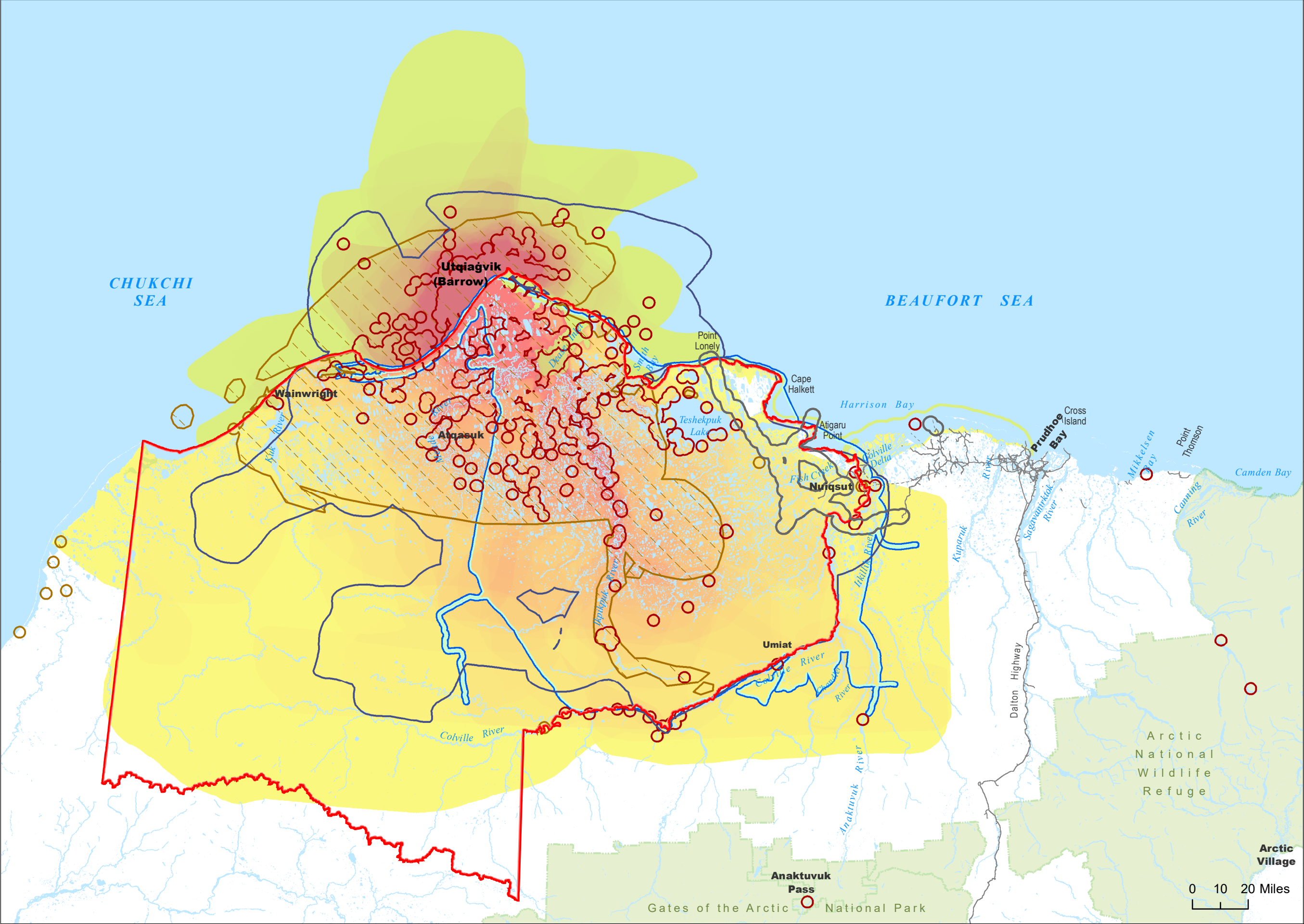
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Figure 3.16.3



Subsistence Data

- All Resource Harvest Sites Buffered, 1987-1989 ^a
- All Resources, 1987-1989 ^b
- All Resources, 1994-2003 ^c
- All Resources, 2014 ^d
- High Overlapping Subsistence Use Areas
- Low All Resources, 1997-2006 ^e

Willow Proposed Development Features

- Direct Effects Area

Other Infrastructure

- Existing Road
- Existing Pipeline
- Existing Infrastructure

Land Designation

- National Petroleum Reserve in Alaska

Map prepared by
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Source

- a. SRB&A and ISER 1993
- b. SRB&A Unpublished
- c. BLM 2004
- d. Brown et al. 2016
- e. SRB&A 2010a

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Arctic National Wildlife Refuge

Arctic Village

0 10 20 Miles

Figure 3.16.4



Subsistence Data

All Resources, Lifetime Previous to 1979 ^a

Willow Proposed Development Features

Direct Effects Area

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

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Source
a. Pedersen 1979

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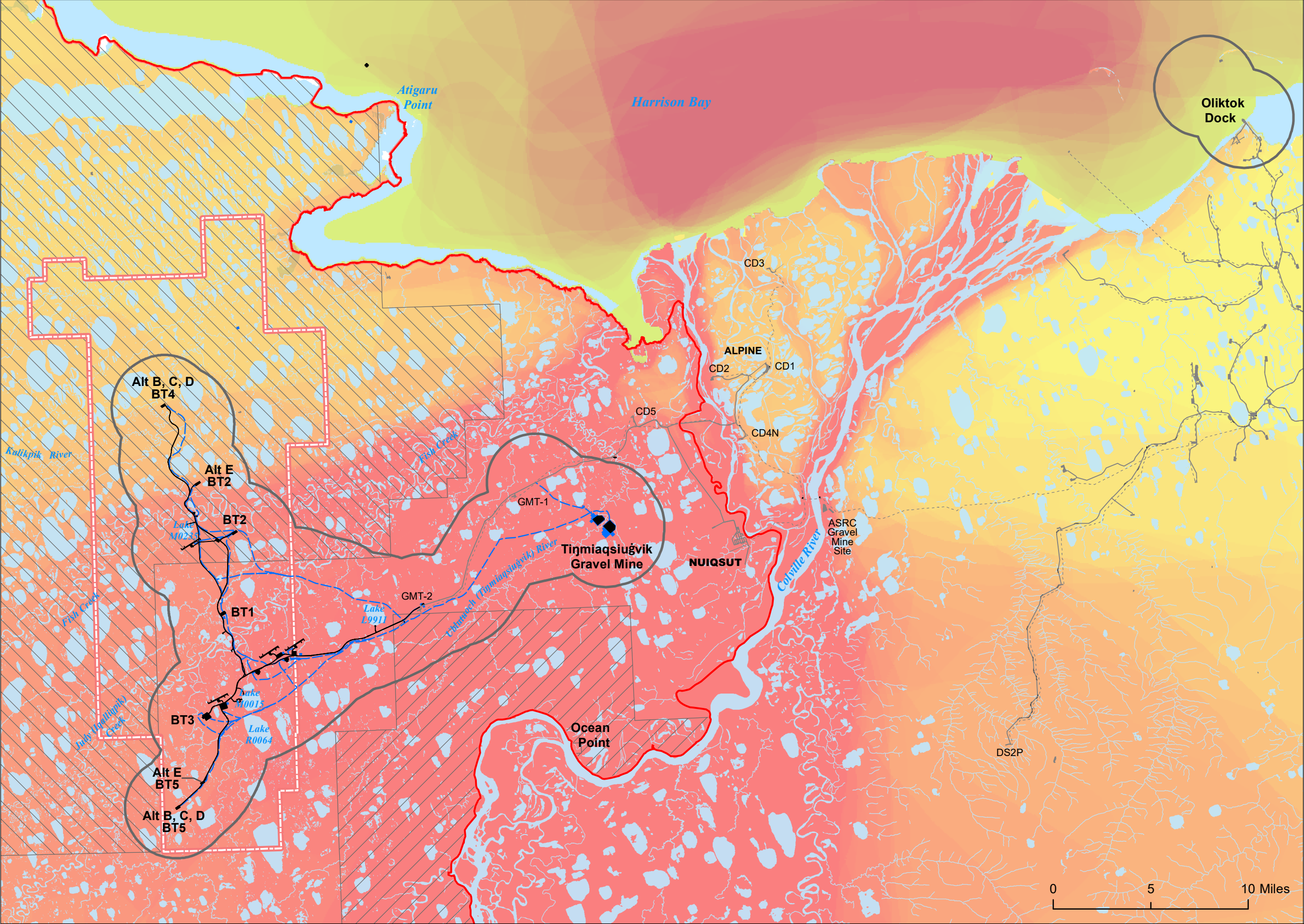


Arctic Village

0 10 20 Miles

Gates of the Arctic National Park

Figure 3.16.5



Subsistence Data

- High Overlapping Subsistence Use Areas
- Low All Resources, 1995-2006 ^a

Willow Proposed Development Features

- Alternatives Analysis A
- Ice Road
- Ice Pad
- Gravel Footprint

Other Infrastructure

- Existing Road
- Existing Pipeline
- Existing Infrastructure

Land Designation

- National Petroleum Reserve in Alaska

Oil and Gas Unit

- Bear Tooth Unit

NPR-A Special

- Colville River Special
- Teshkepuk Lake Special

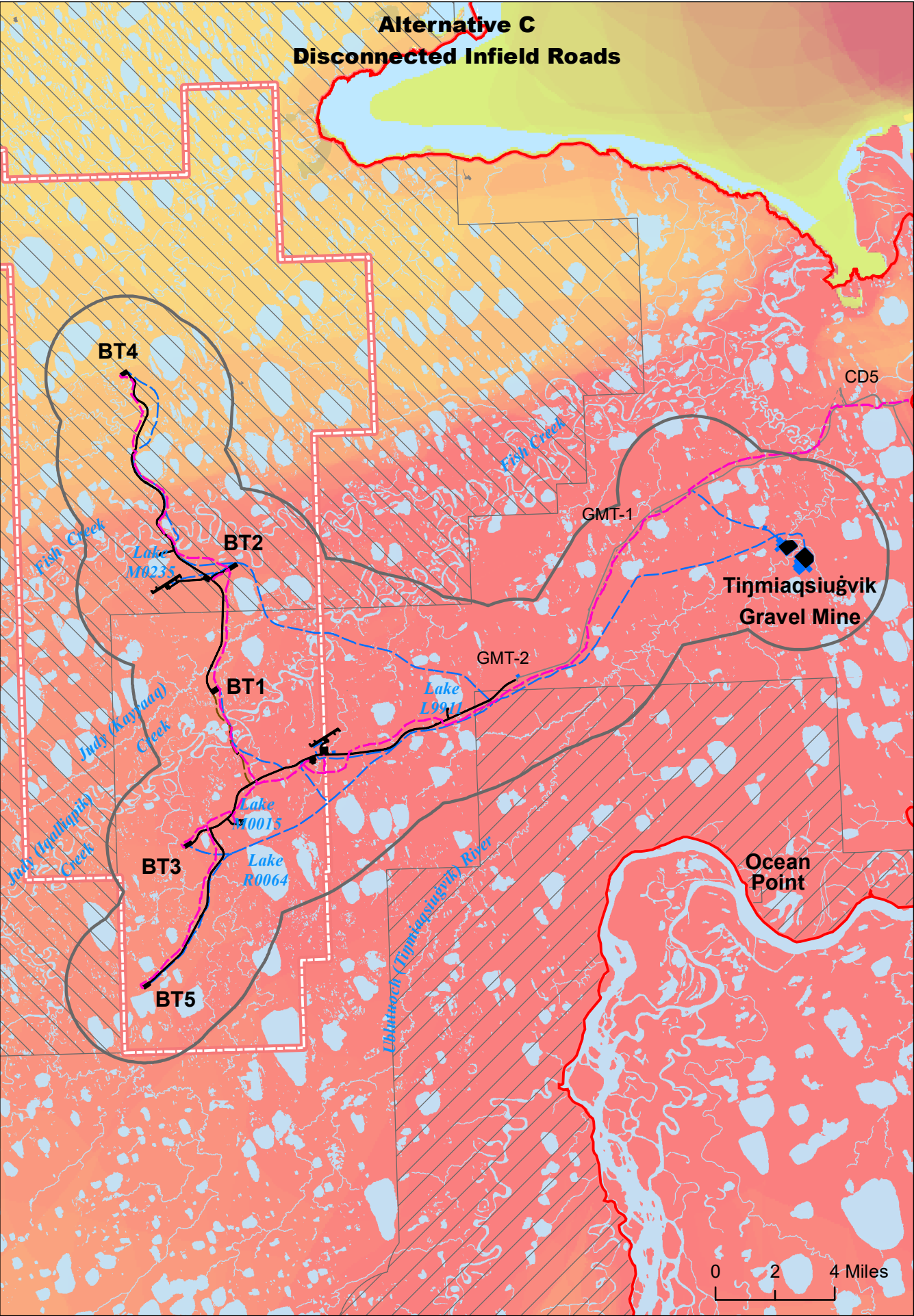
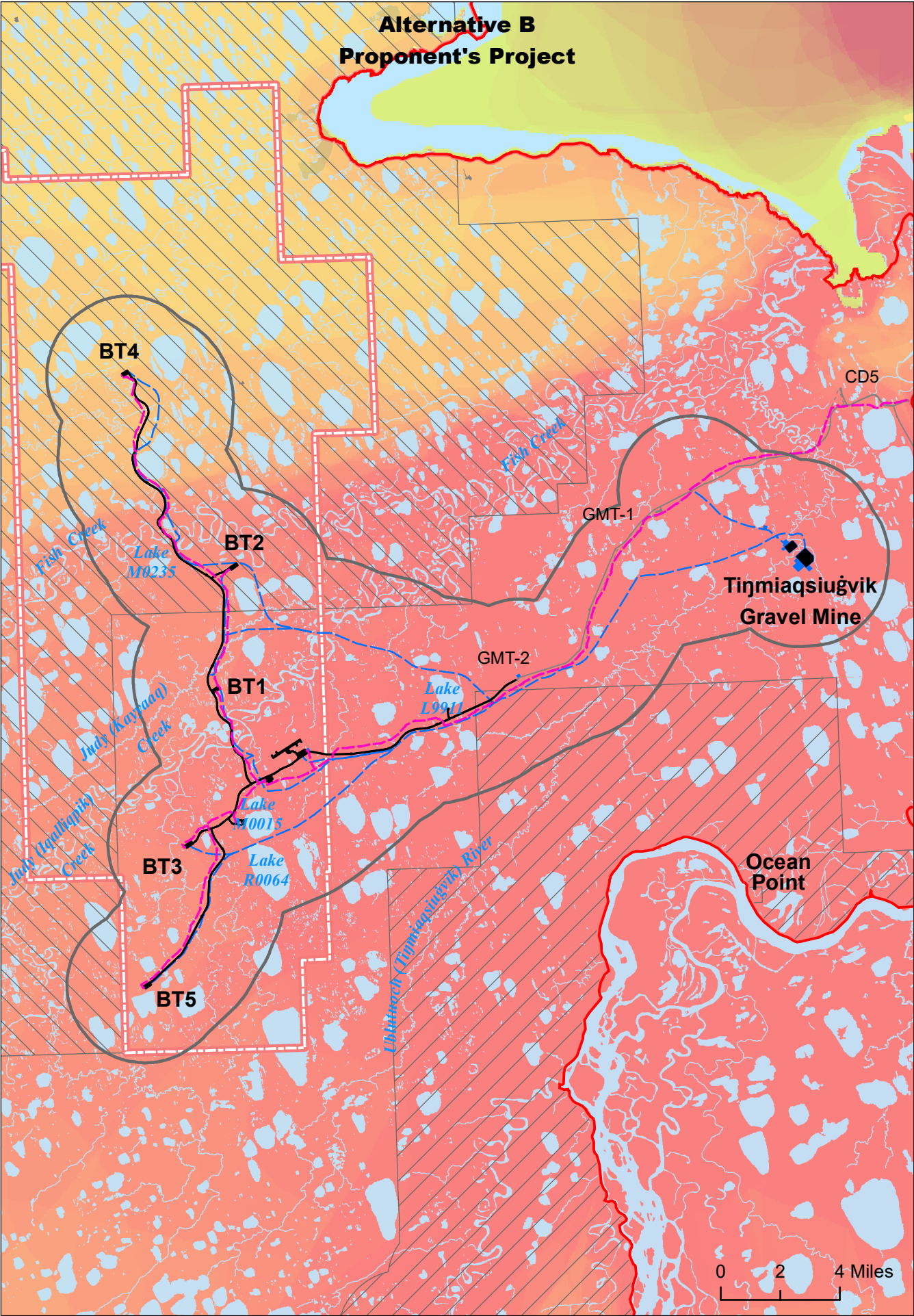
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Source
a. SRB&A 2010a

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Figure 3.16.6



Subsistence Data

High Overlapping Subsistence Use Areas
Low All Resources, 1995-2006^a

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

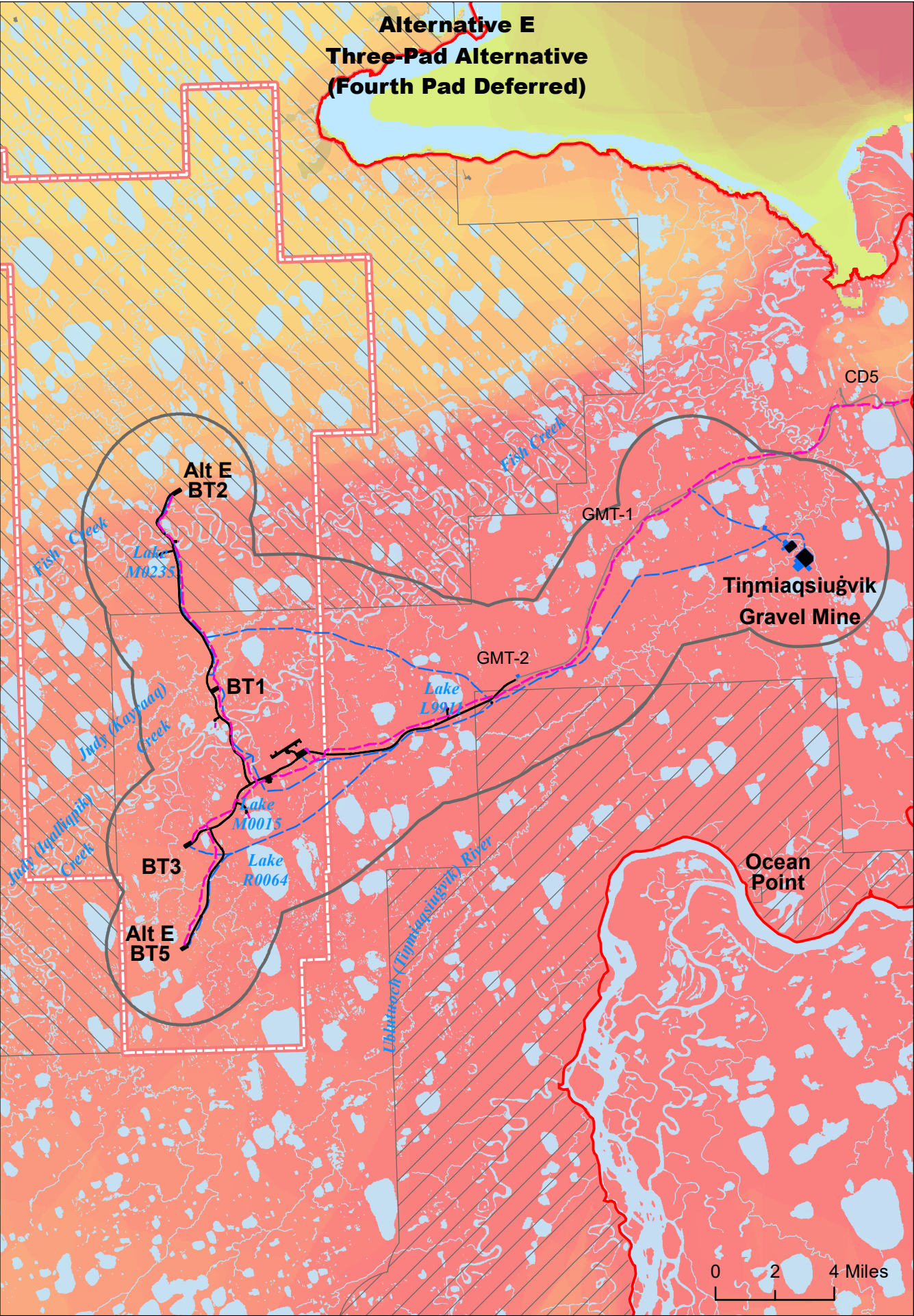
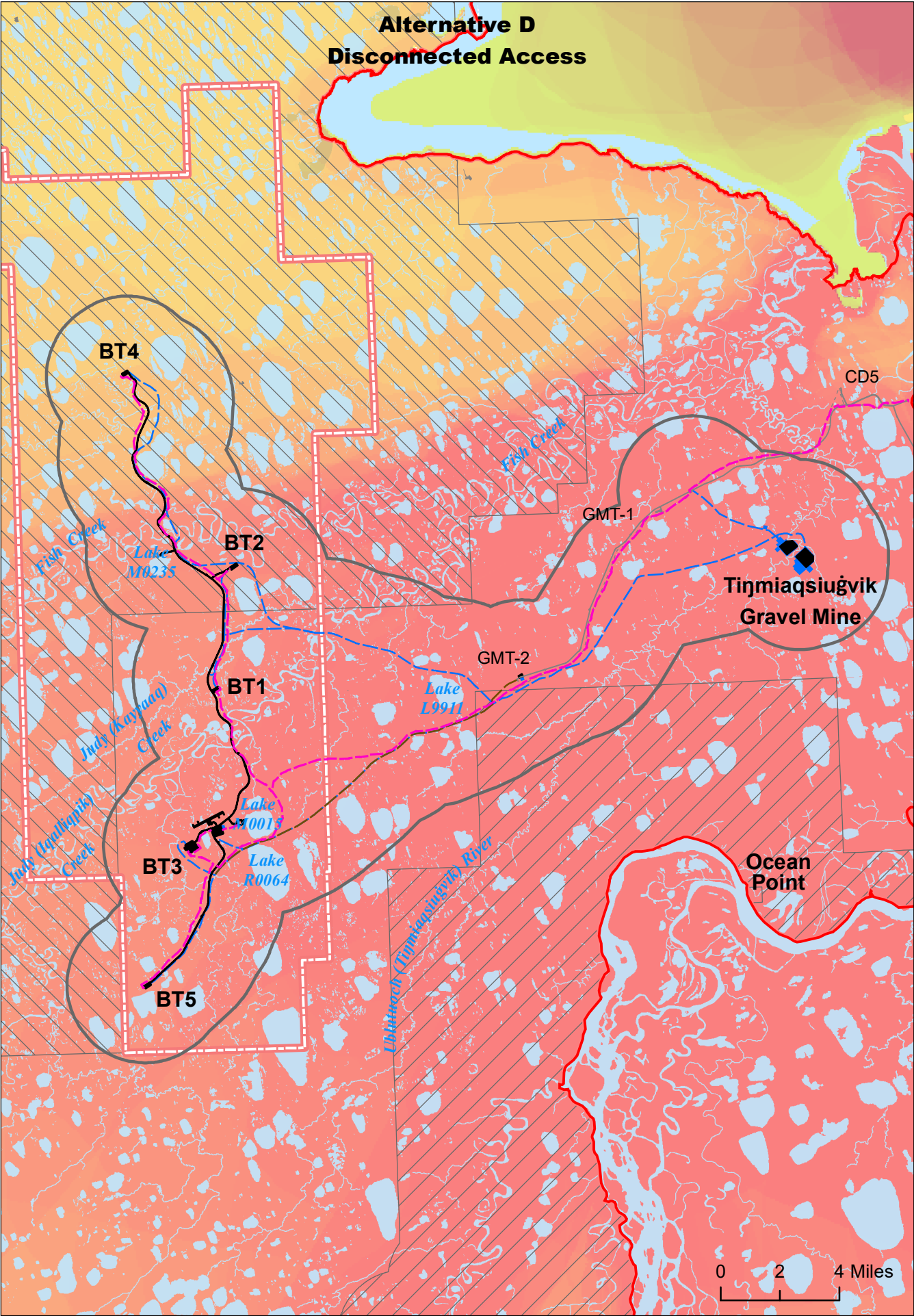
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

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Source
a. SRB&A 2010a

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Figure 3.16.7



Subsistence Data

High Overlapping Subsistence Use Areas All Resources, 1995-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

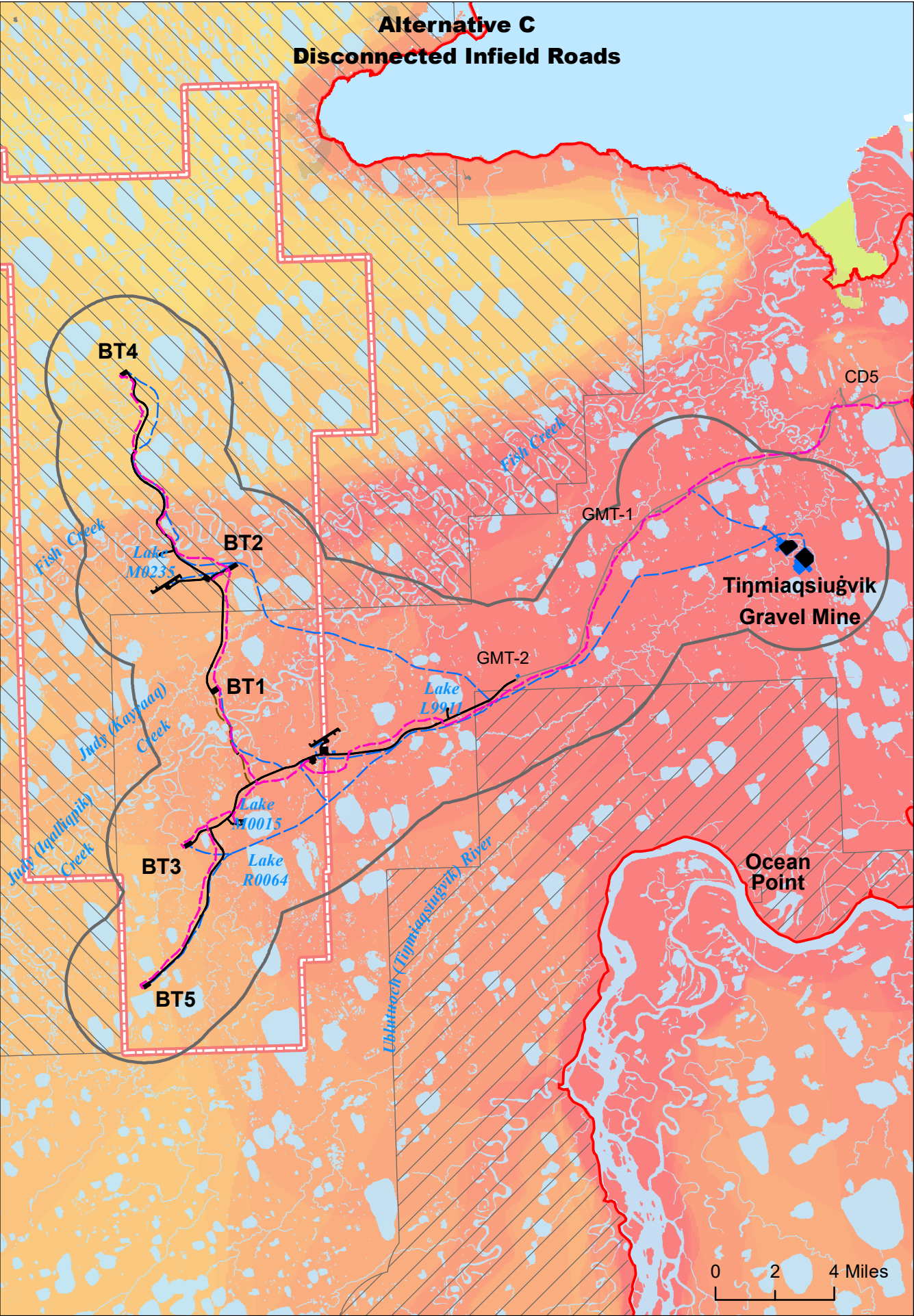
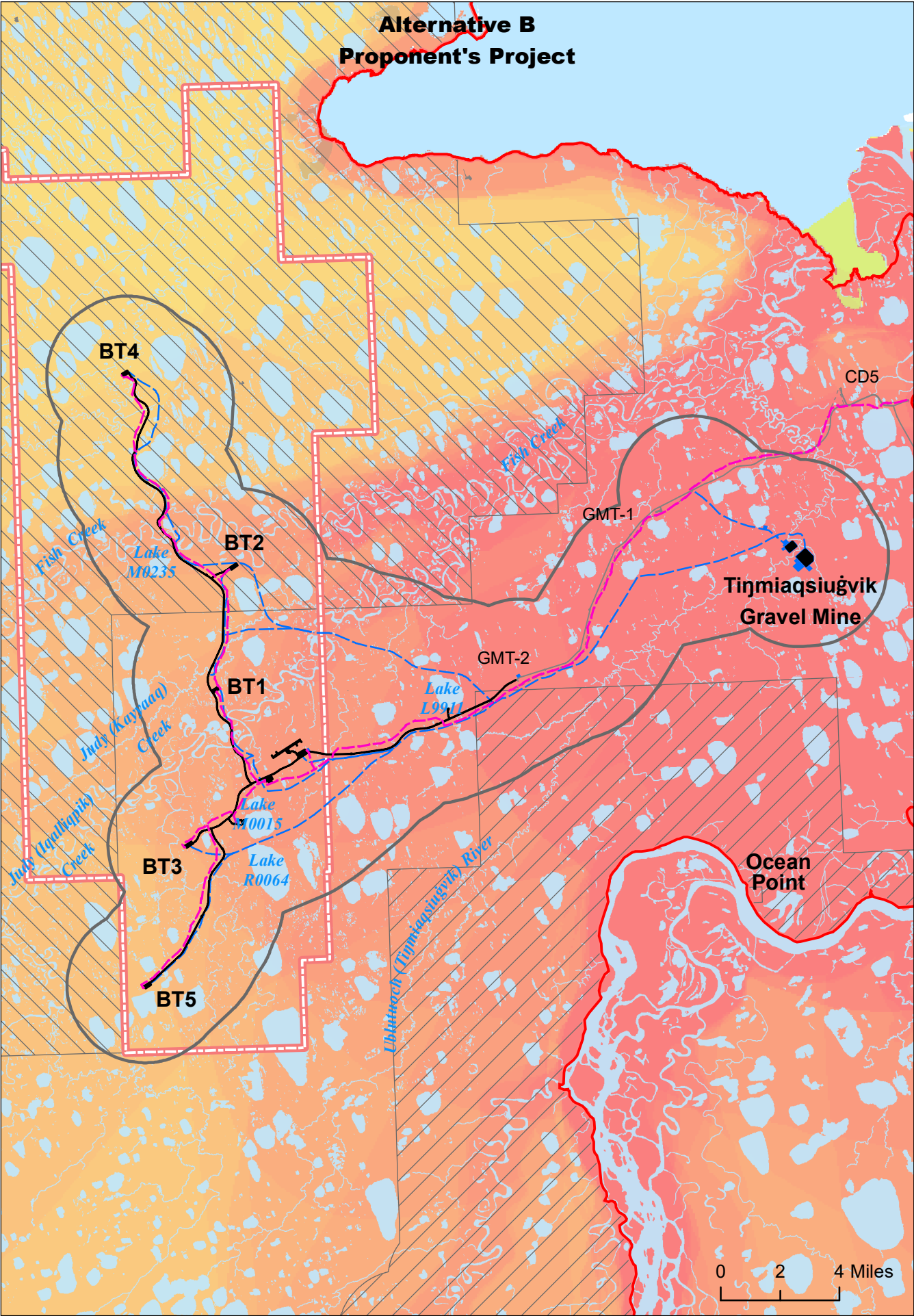
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Figure 3.16.8



Subsistence Data

High Overlapping Subsistence Use Areas Caribou, 1995-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

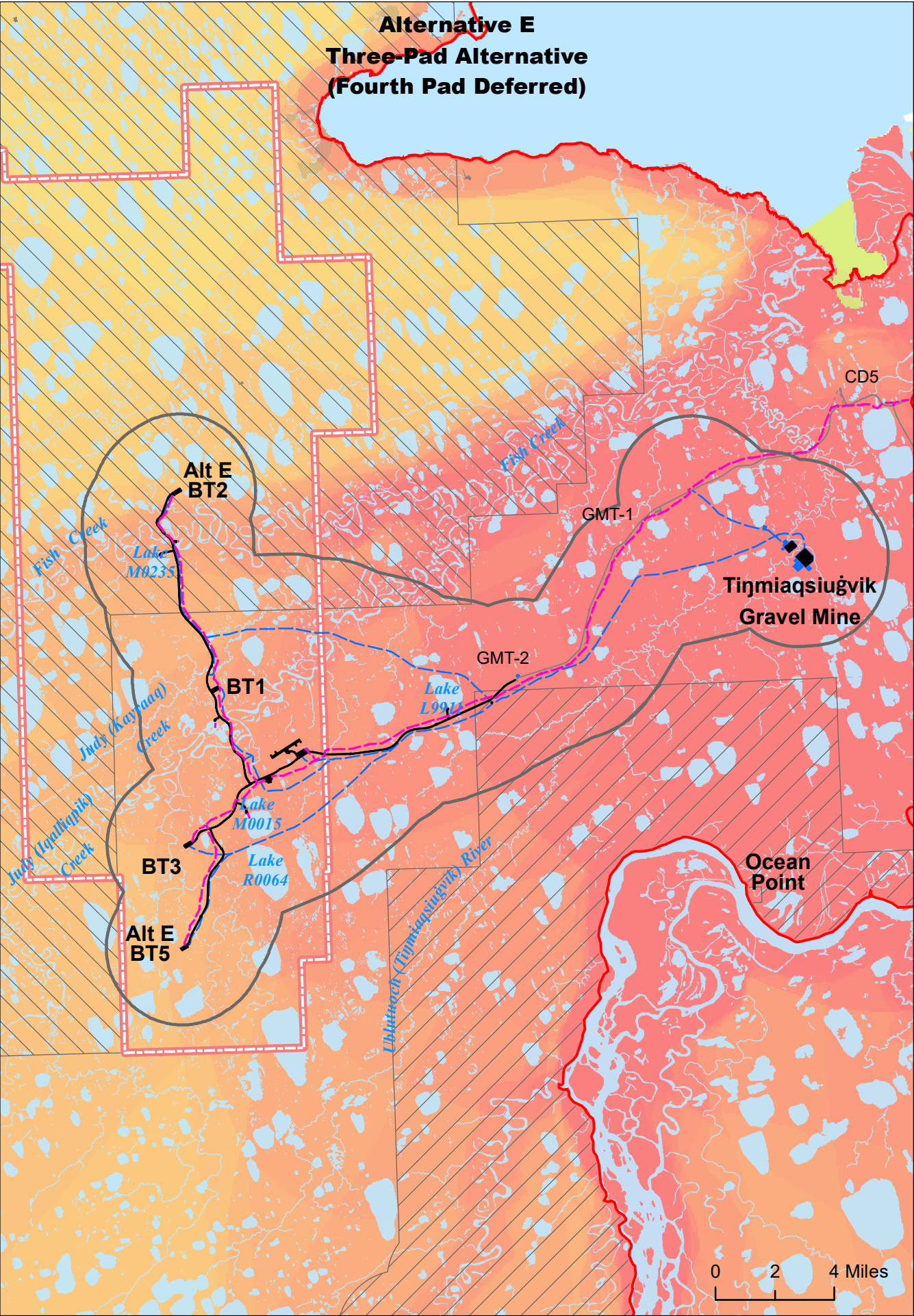
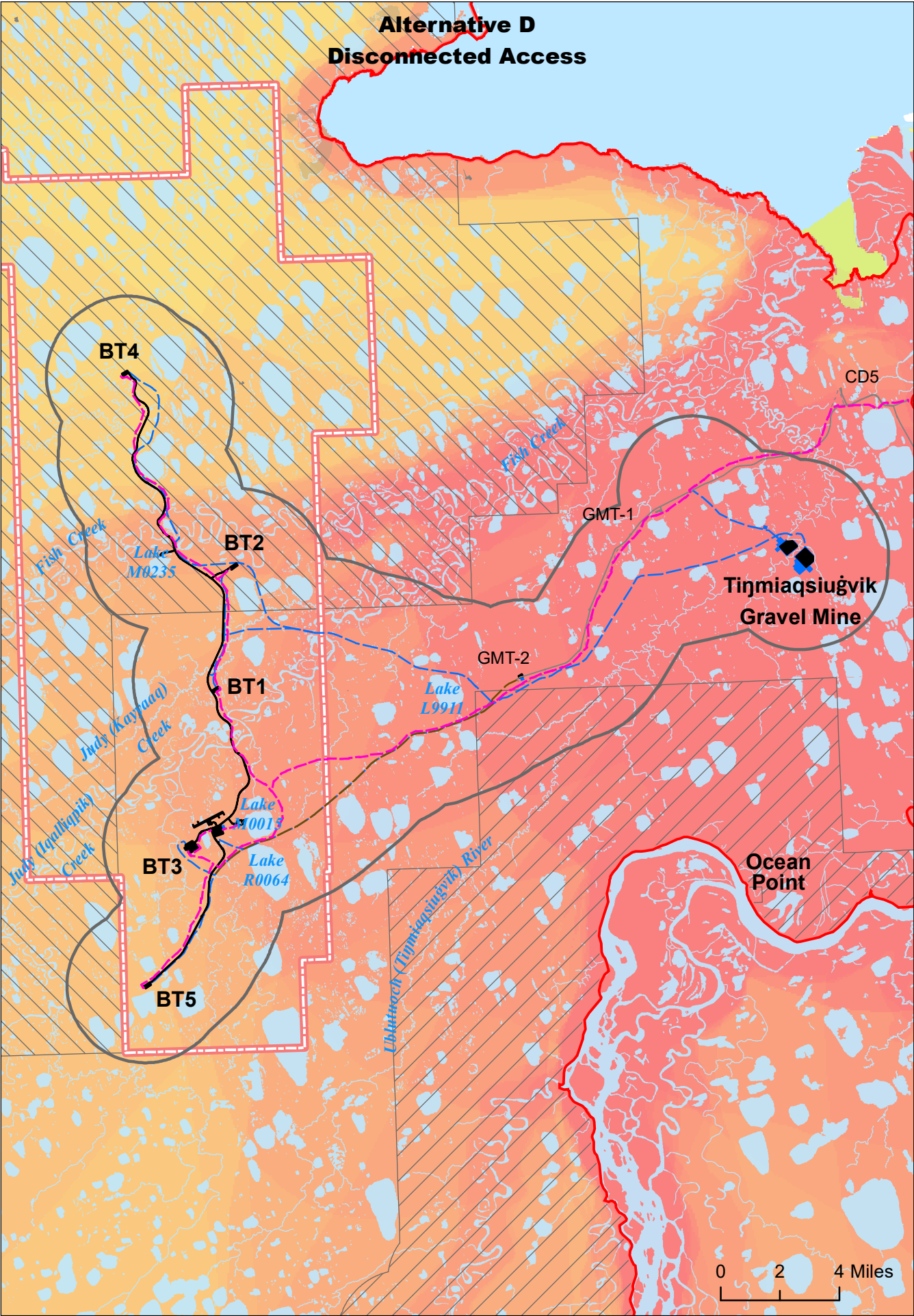
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a. SRB&A 2010a

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Figure 3.16.9



Subsistence Data

High Overlapping Subsistence Use Areas Caribou, 1995-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

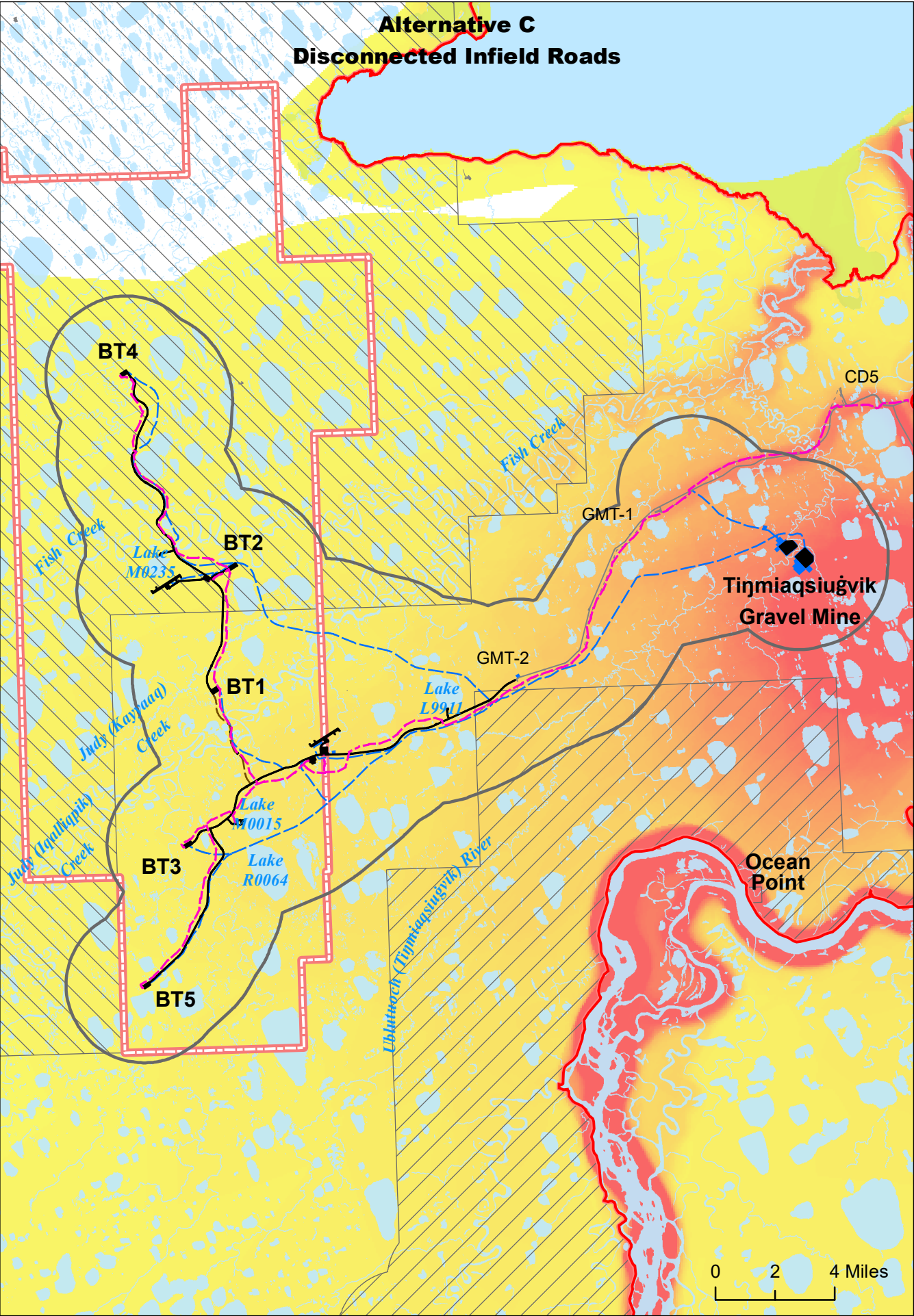
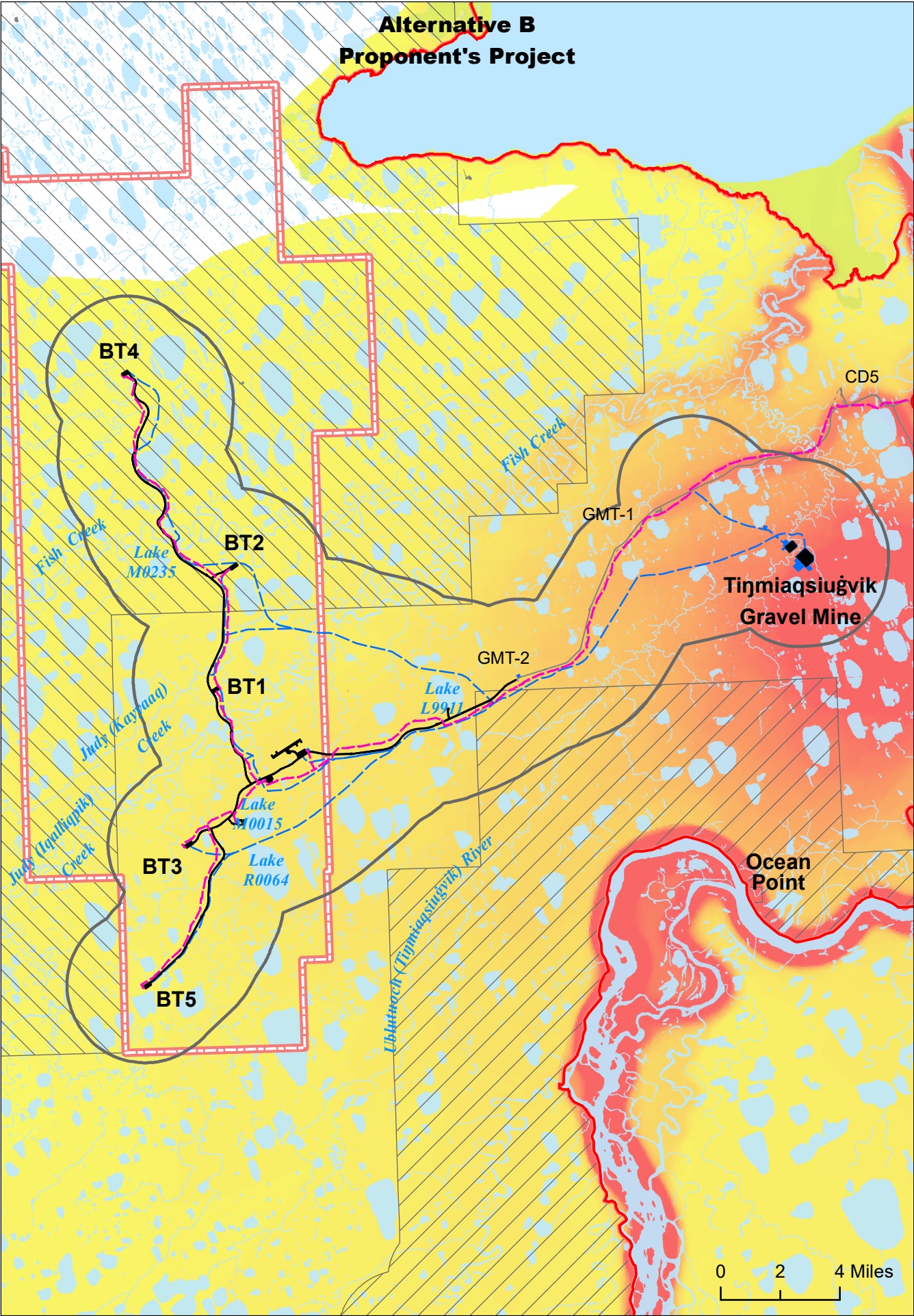
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a. SRB&A 2010a

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Figure 3.16.10



Subsistence Data

High
Low

Overlapping
Subsistence Use Areas
Caribou, January 2008
through December 2019^a

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshekpuk Lake Special

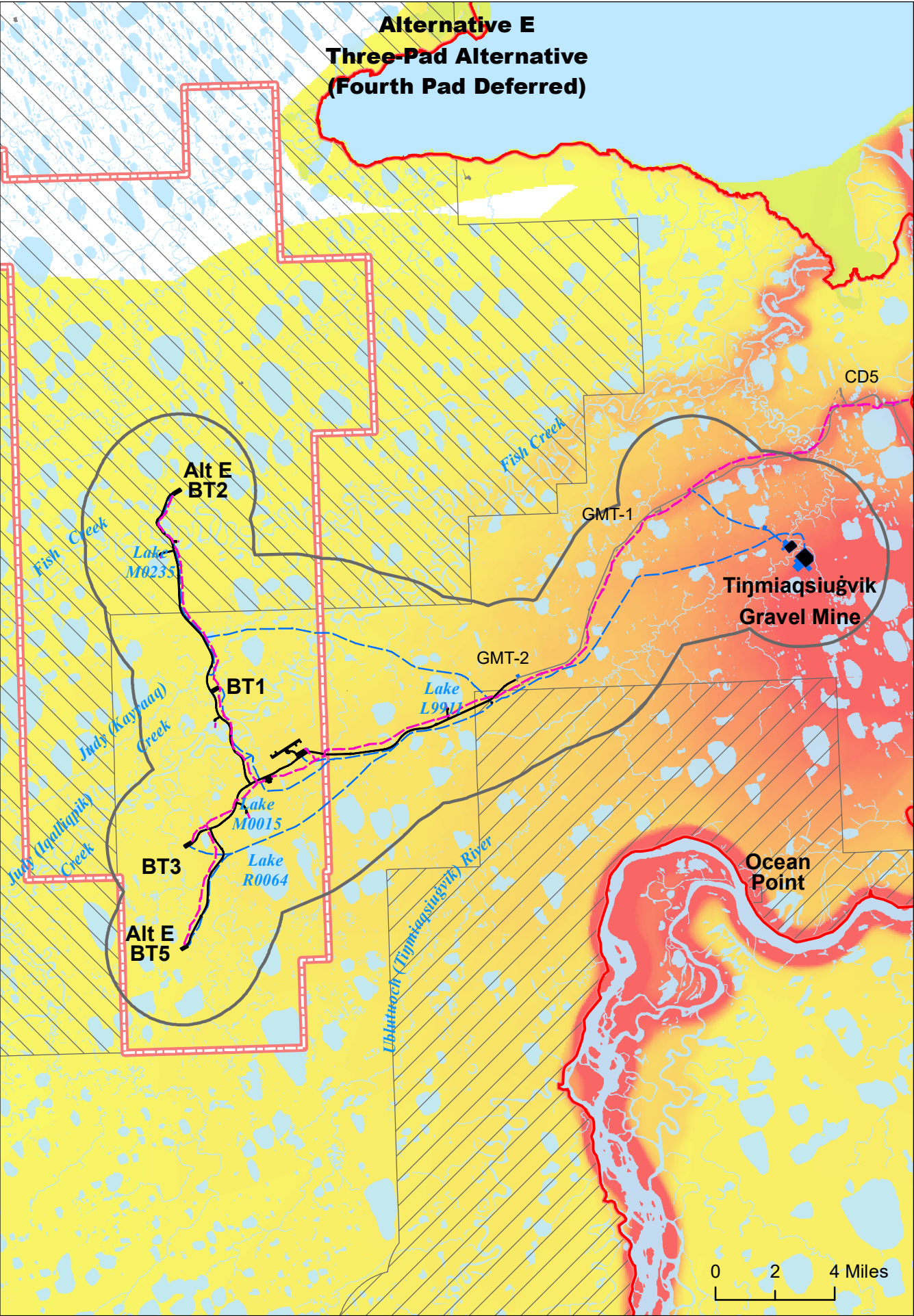
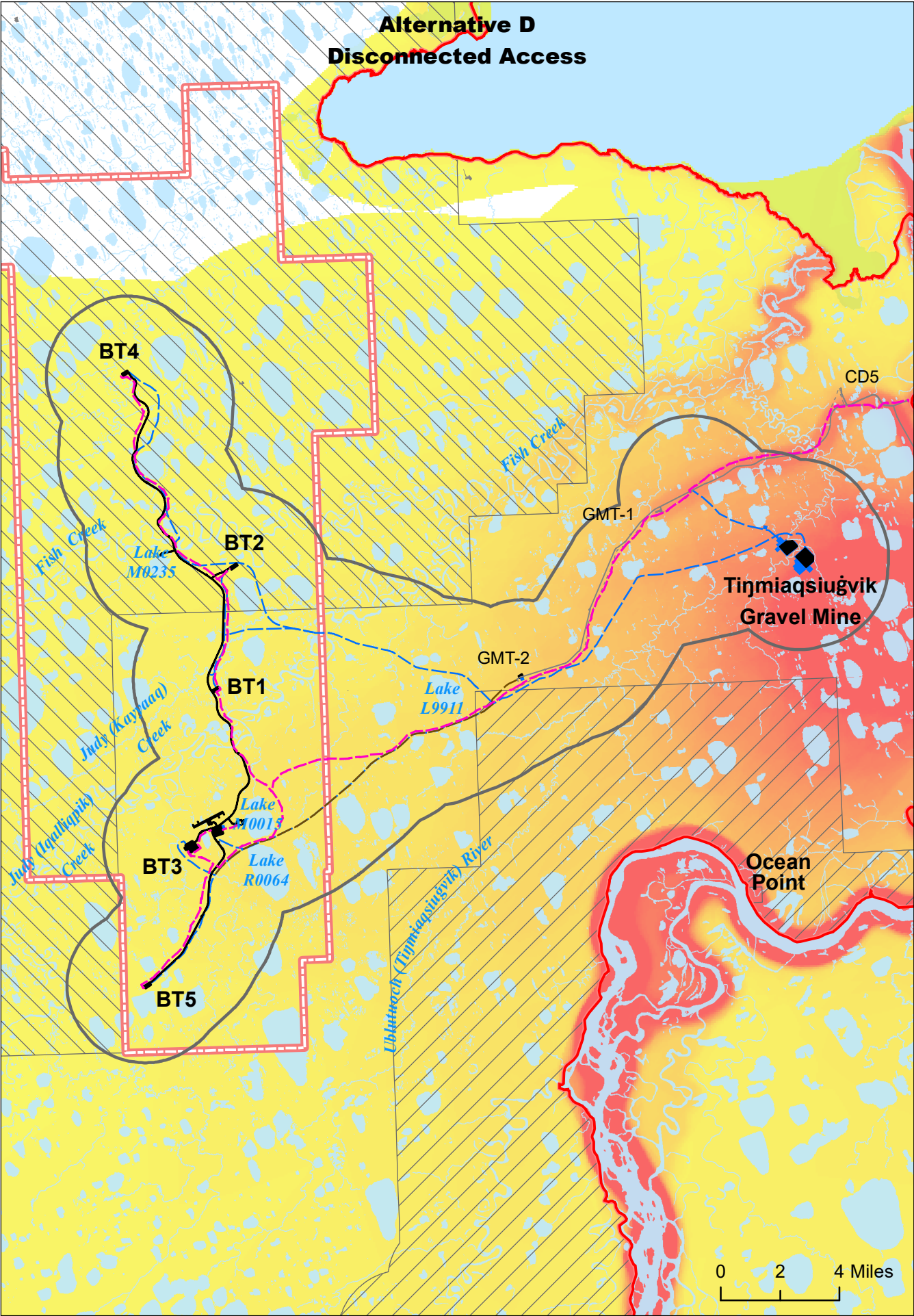
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

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Figure 3.16.11



Subsistence Data

High
Low

Overlapping Subsistence Use Areas Caribou, January 2008 through December 2019^a

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

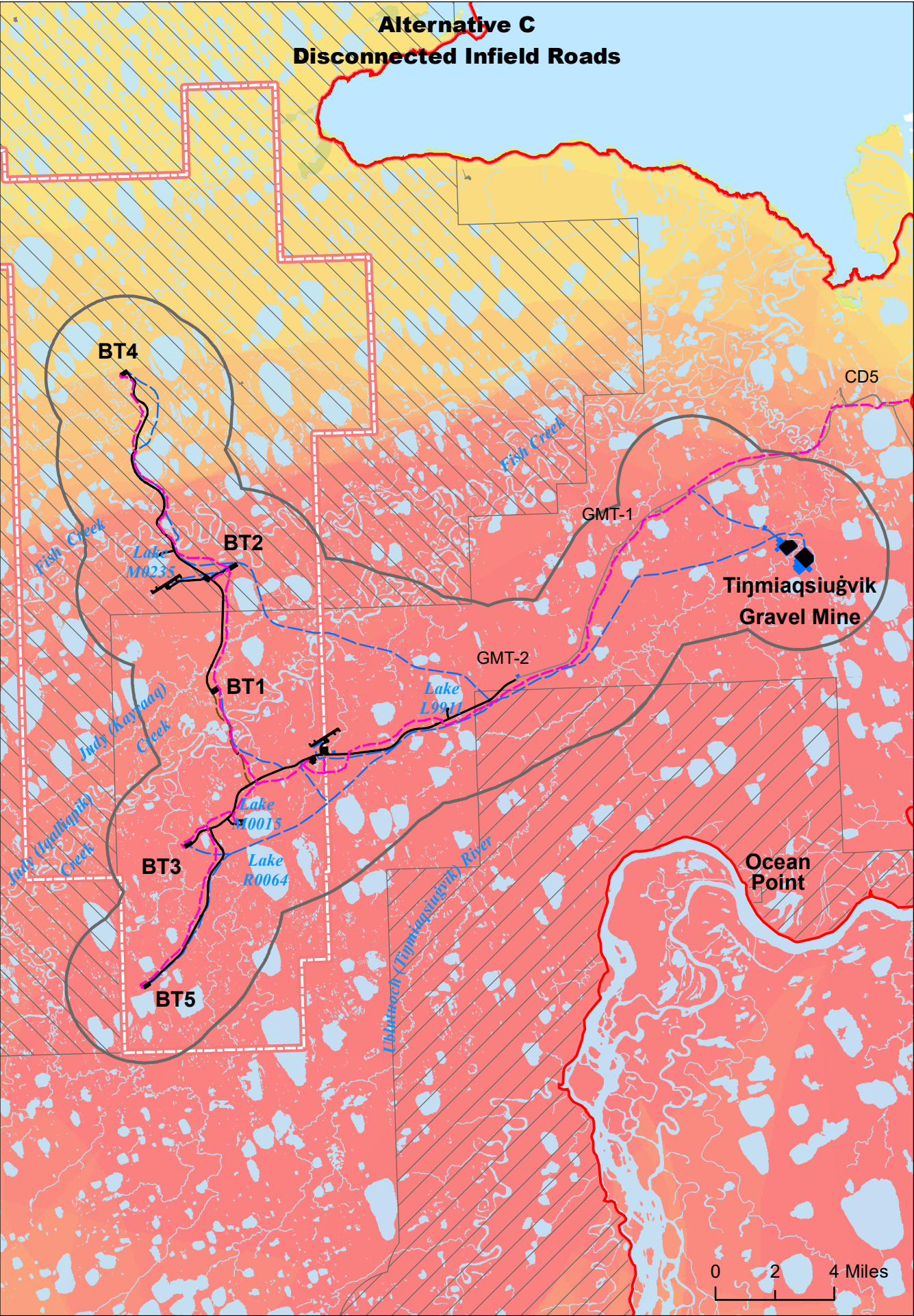
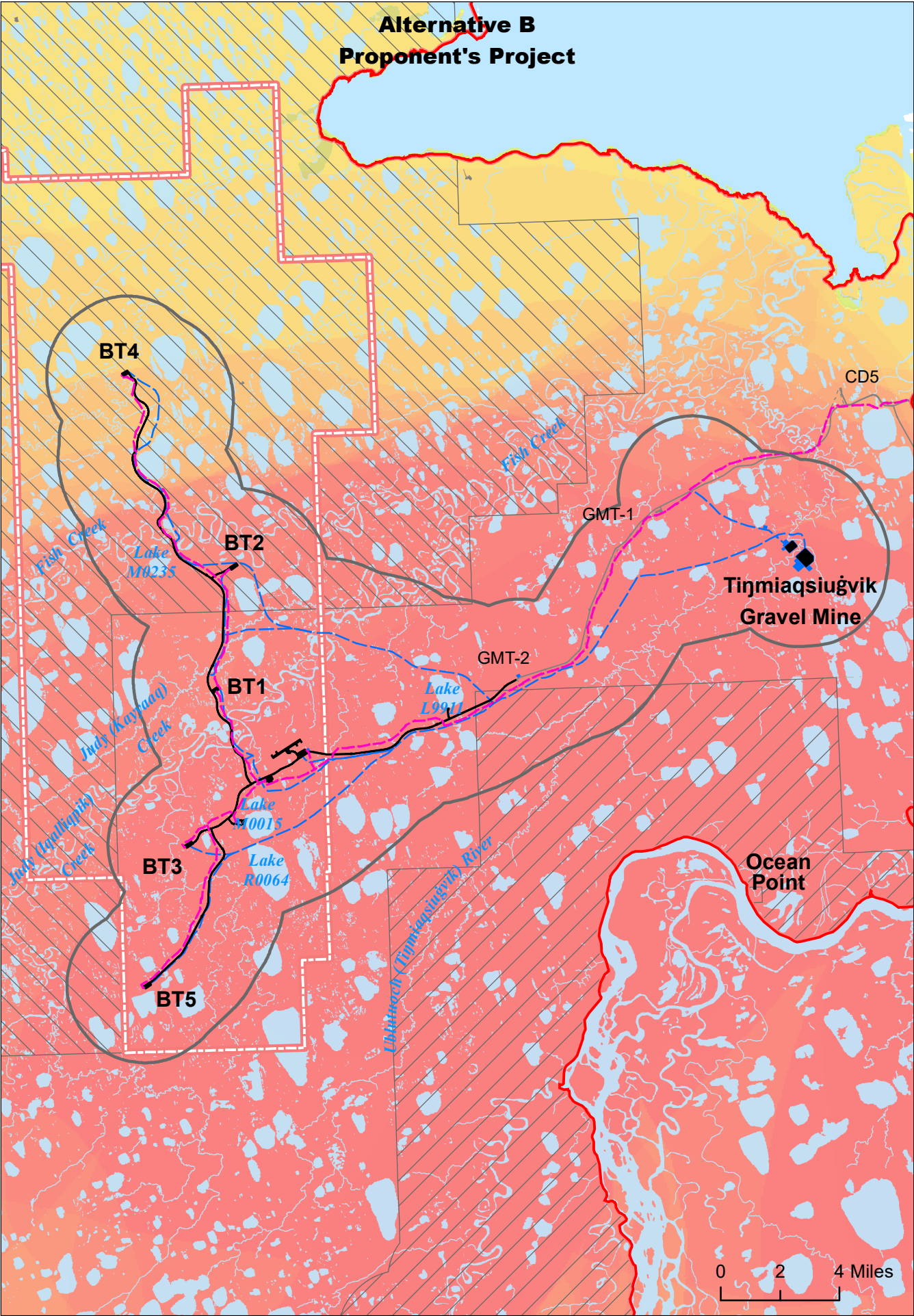
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

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a. SRB&A 2021

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Figure 3.16.12



Subsistence Data

High Overlapping Subsistence Use Areas Wolf and Wolverine, 1995-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshekpuk Lake Special

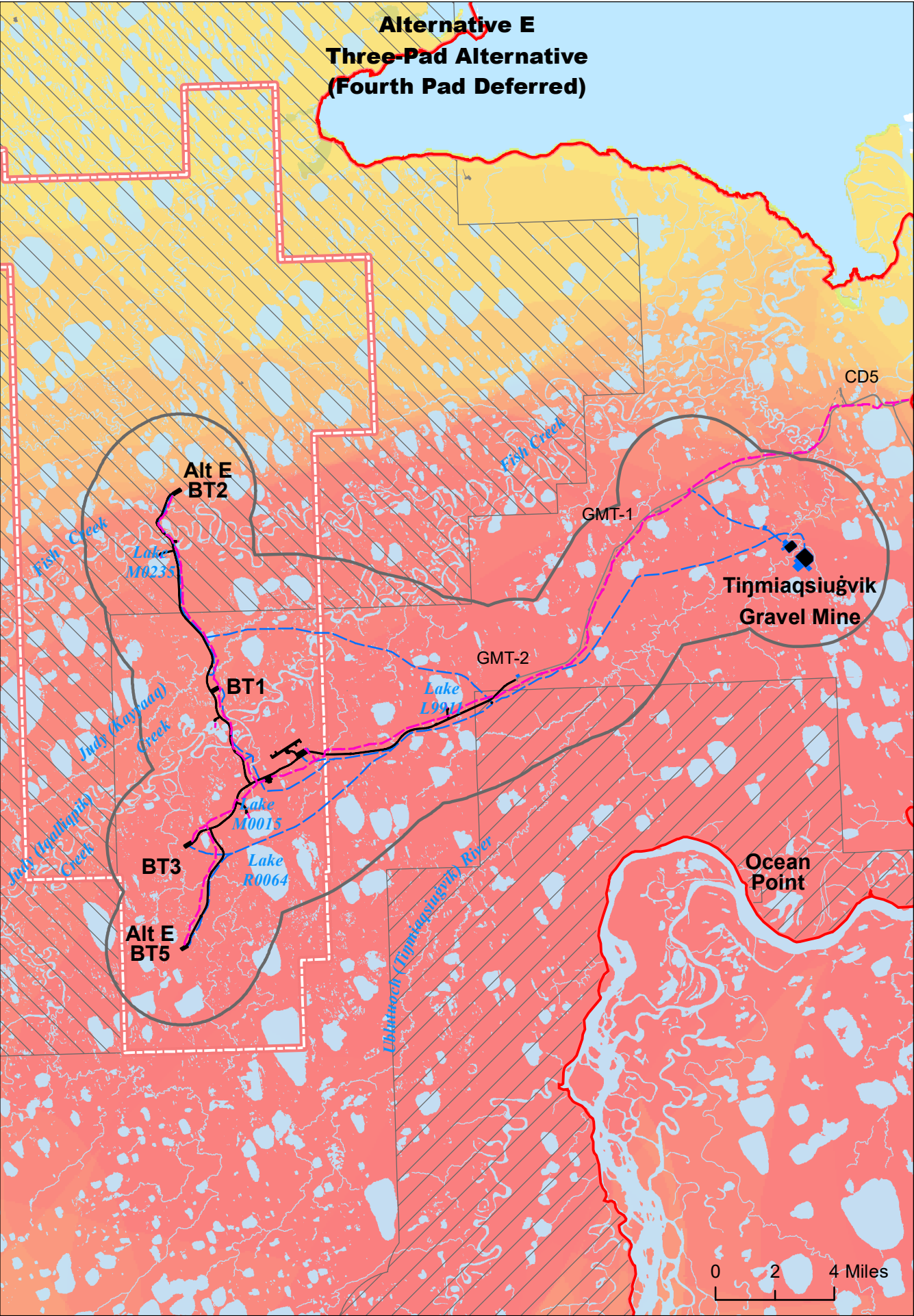
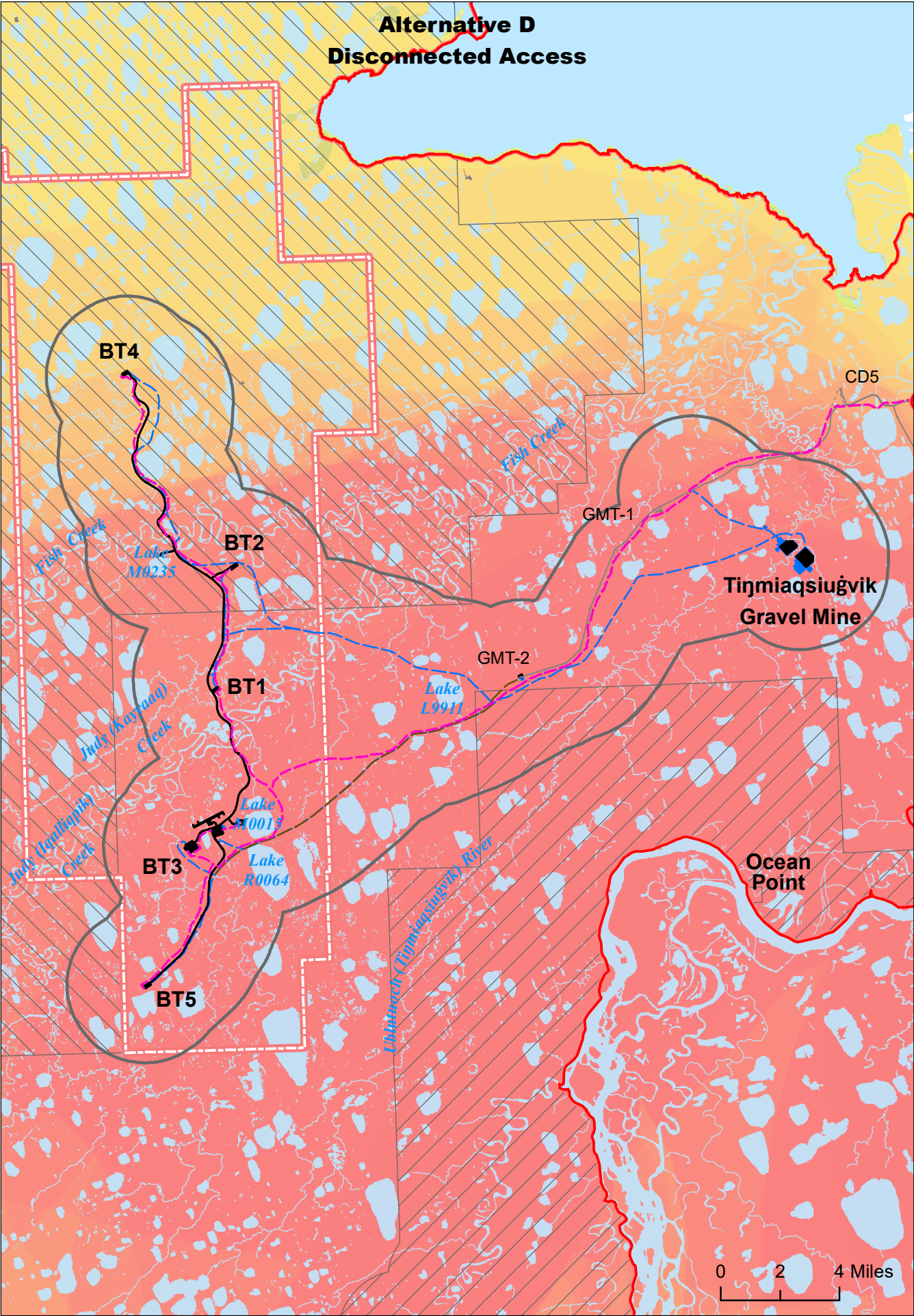
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.13



Subsistence Data

High Overlapping Subsistence Use Areas Wolf and Wolverine, 1995-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

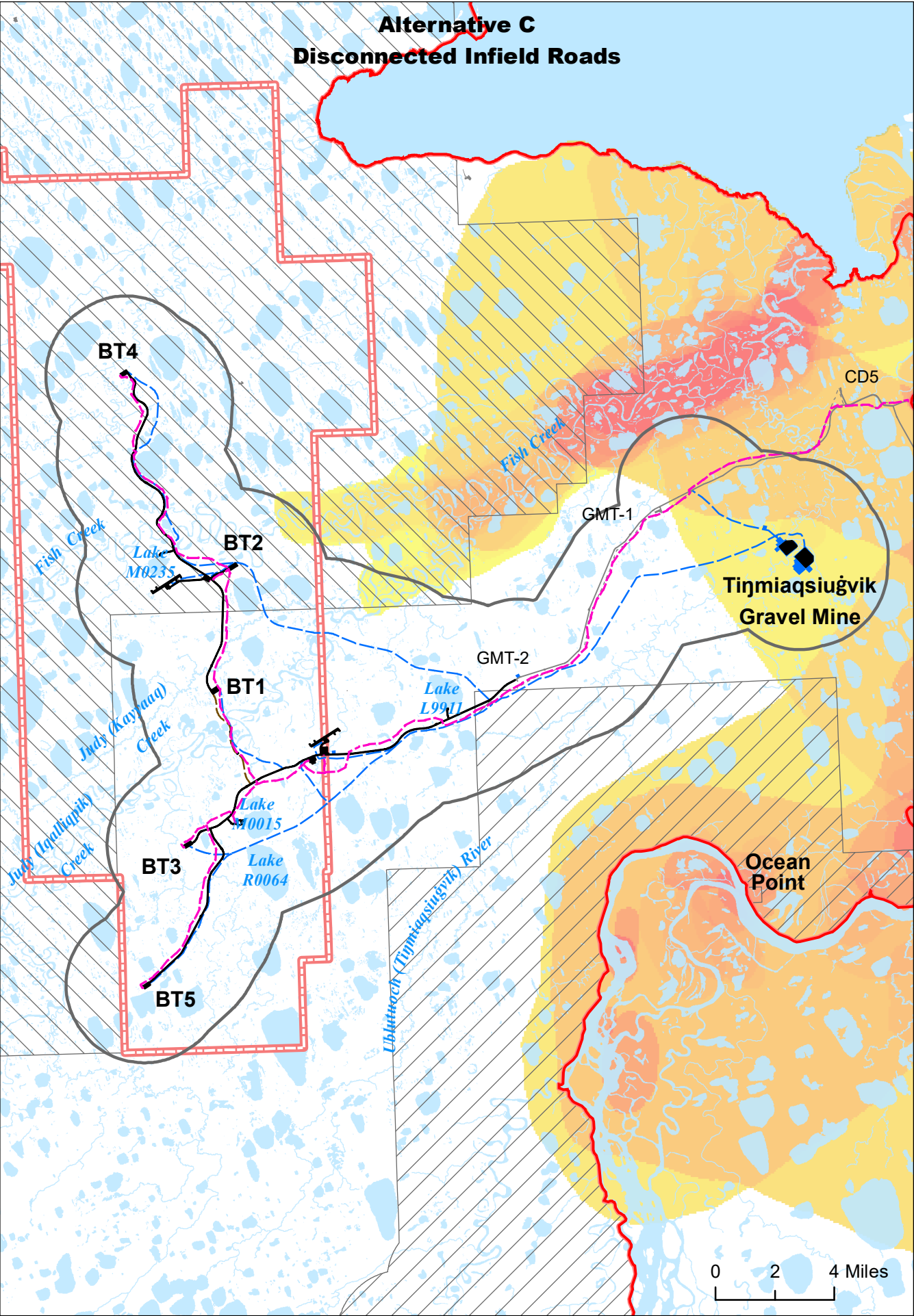
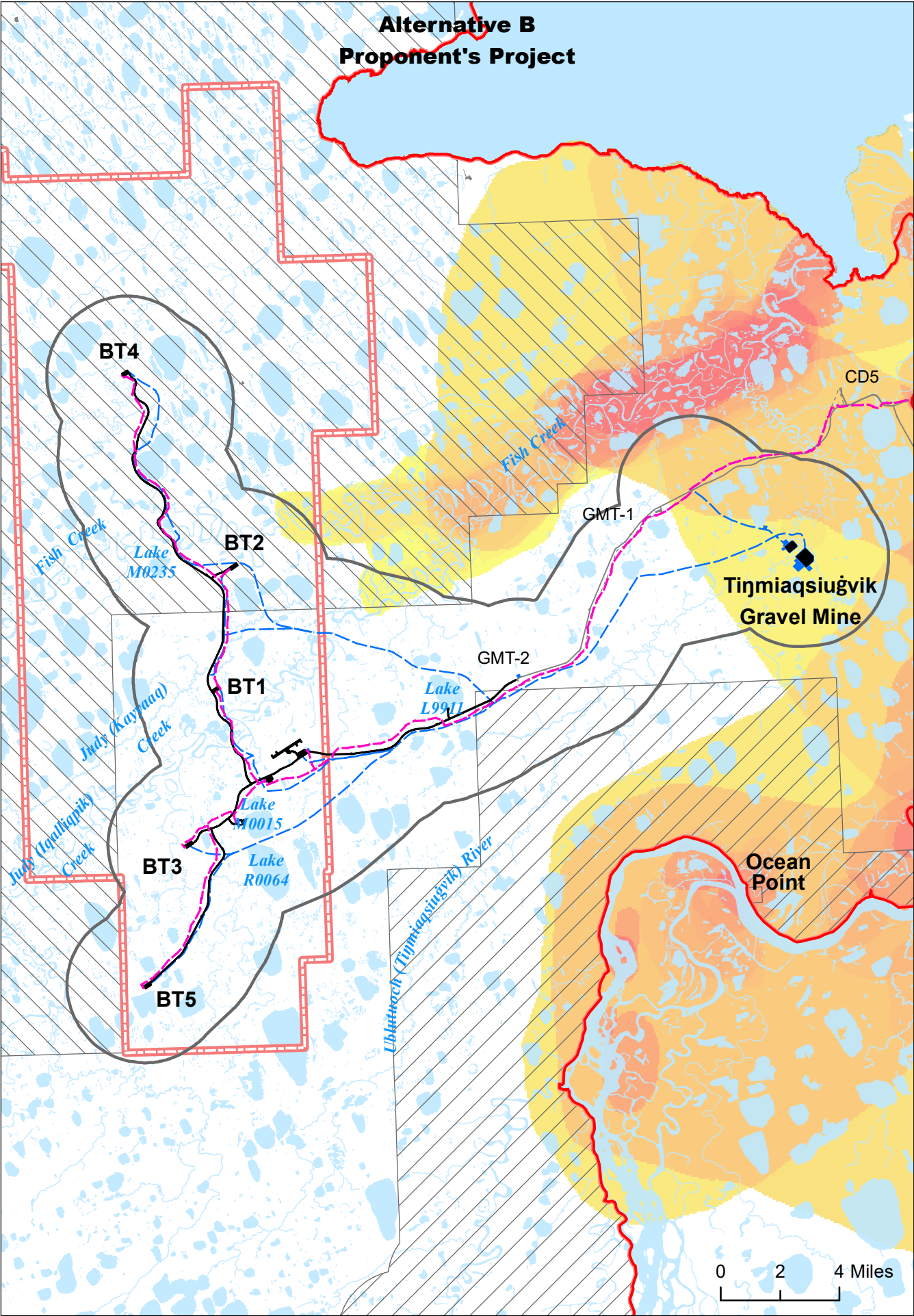
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
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Source
a. SRB&A 2010a

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Figure 3.16.14



Subsistence Data

High Overlapping Subsistence Use Areas Goose, 1995-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

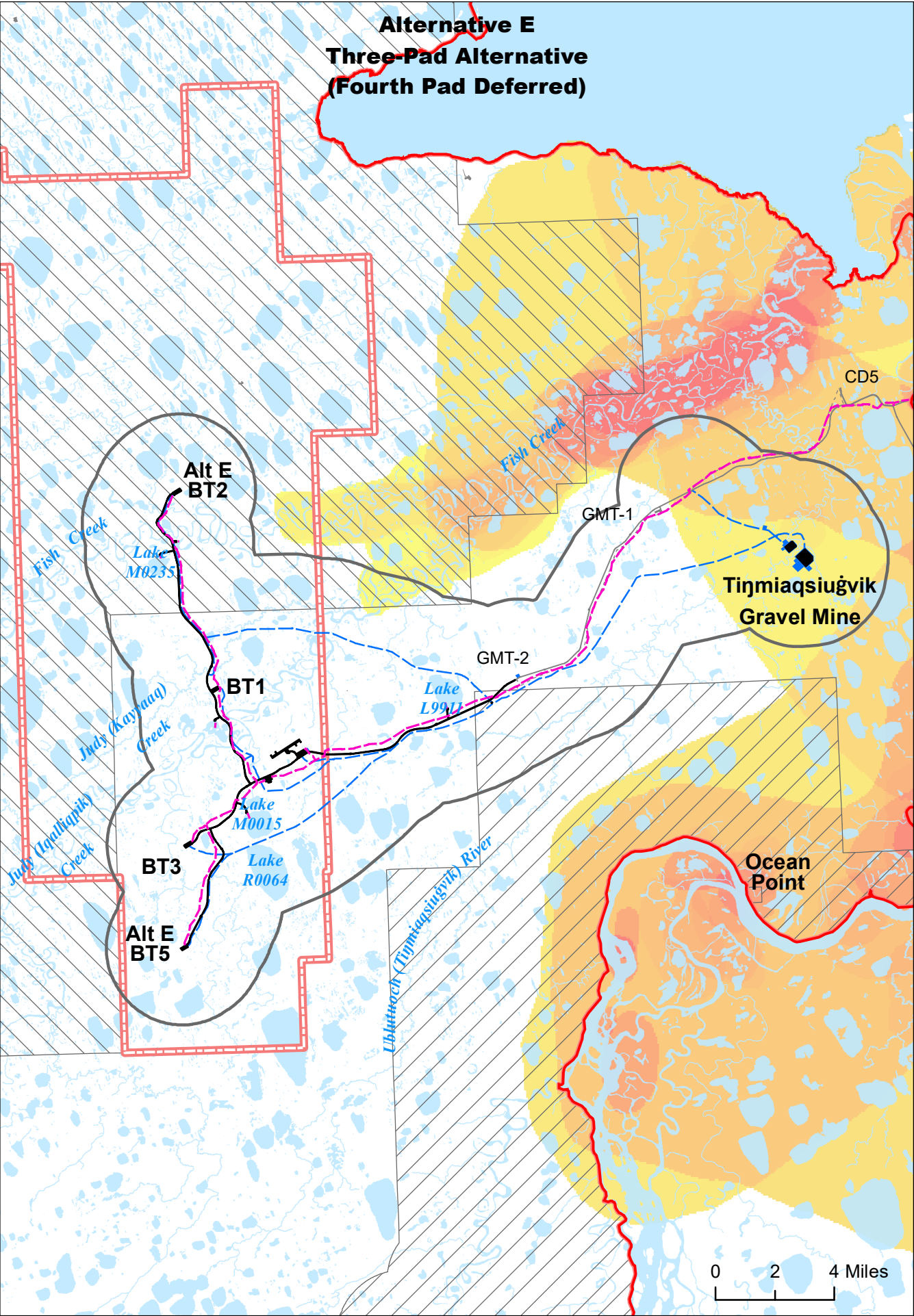
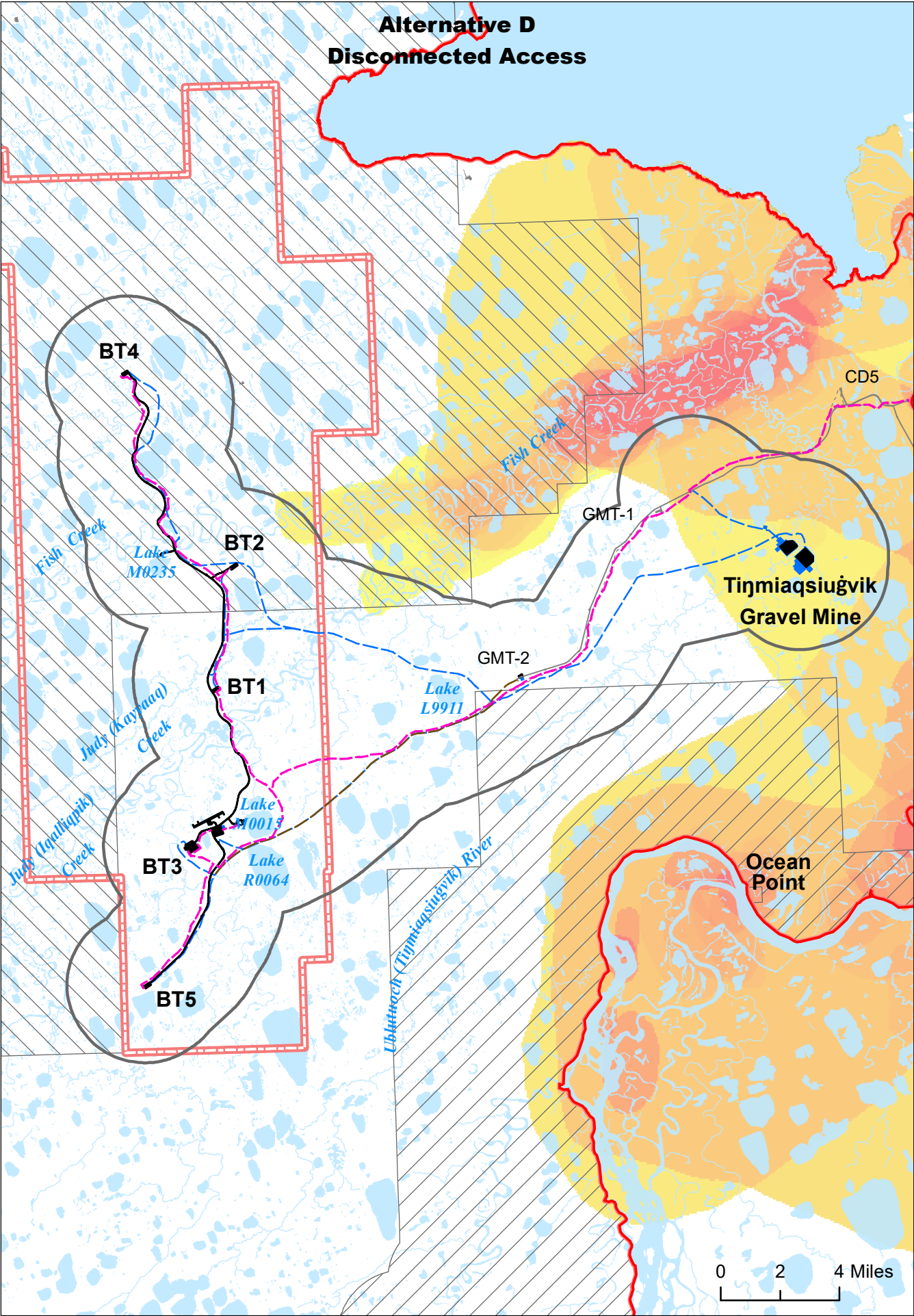
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.15



Subsistence Data

High Overlapping Subsistence Use Areas
Low Goose, 1995-2006^a

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshekpuk Lake Special

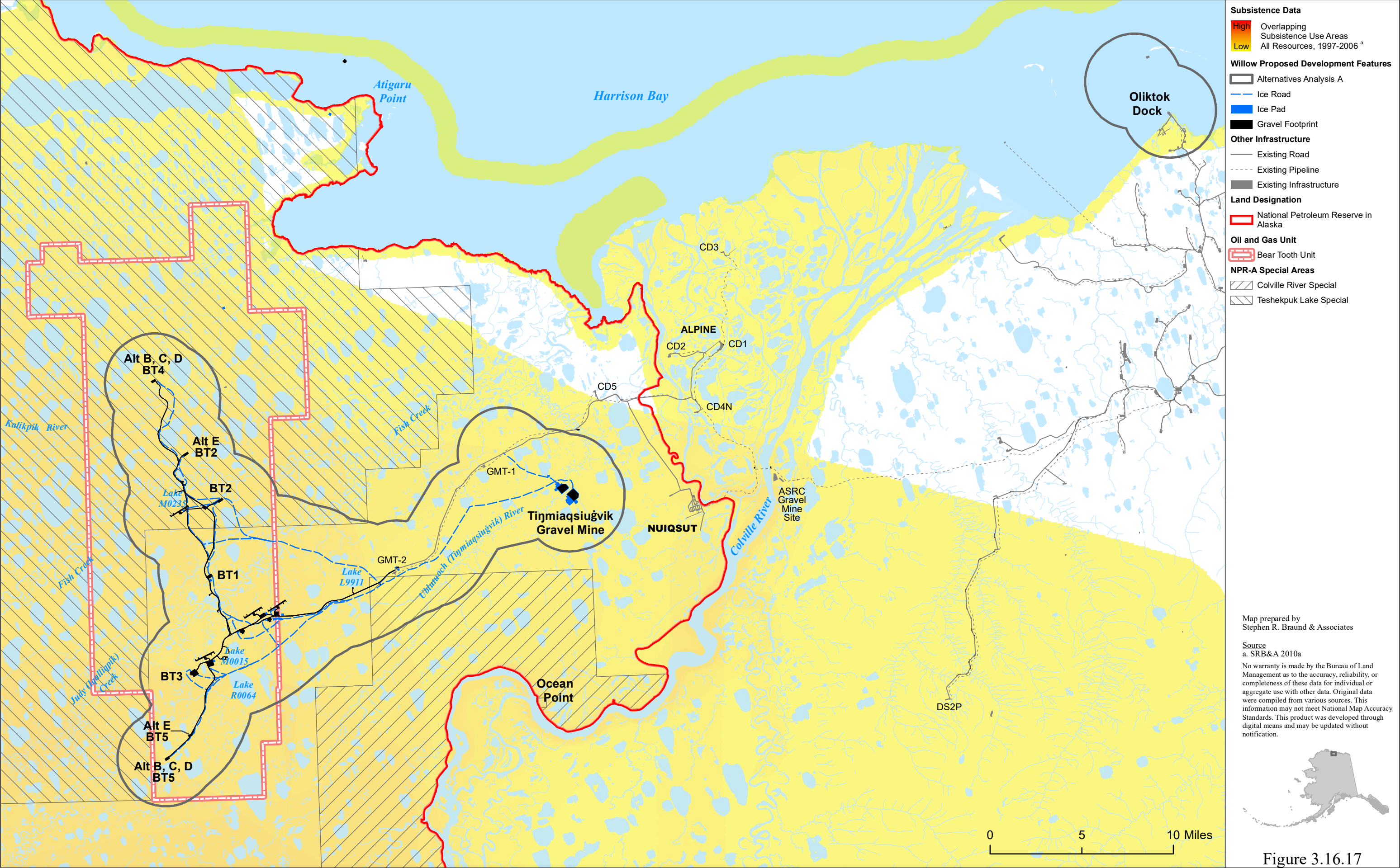
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

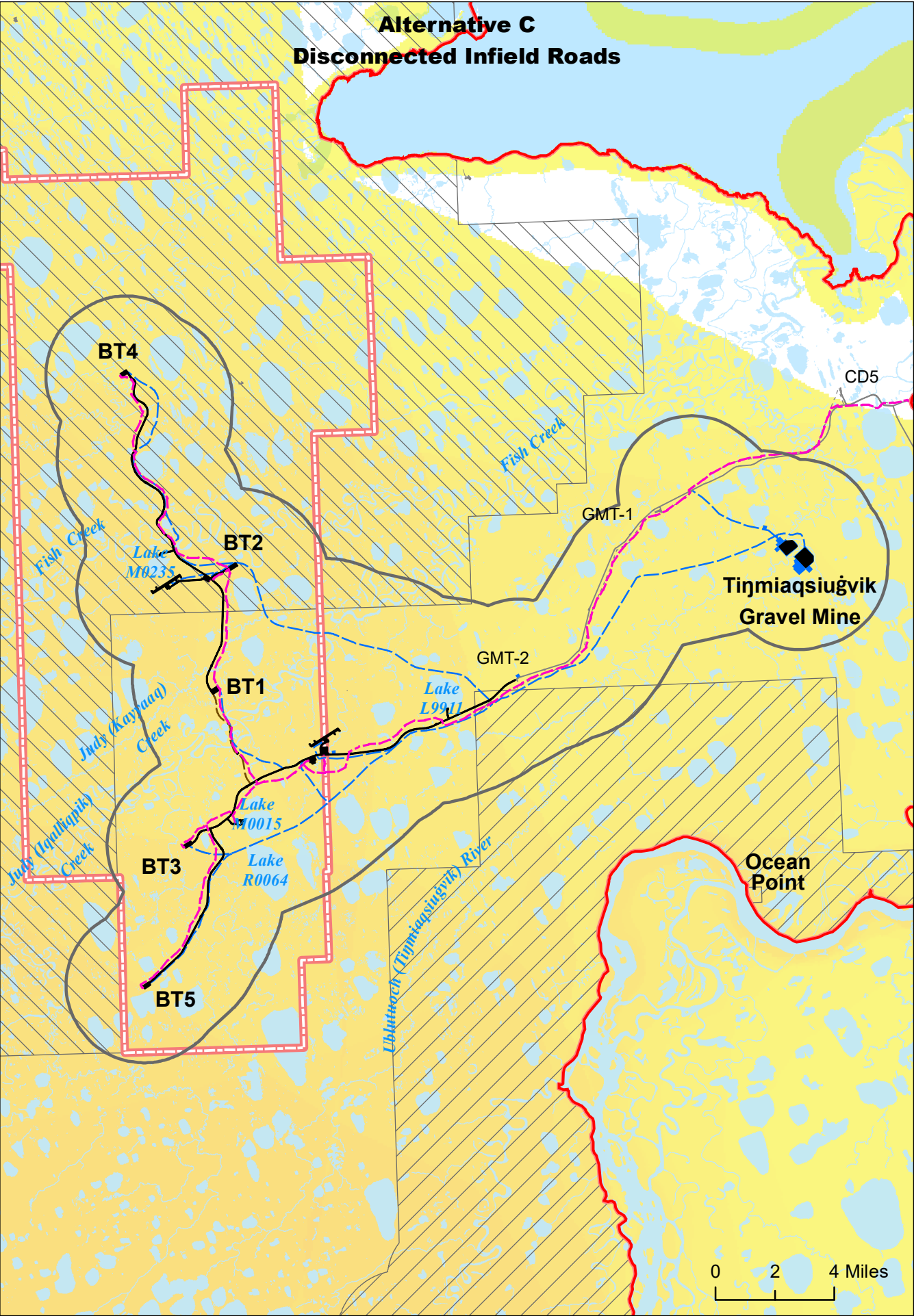
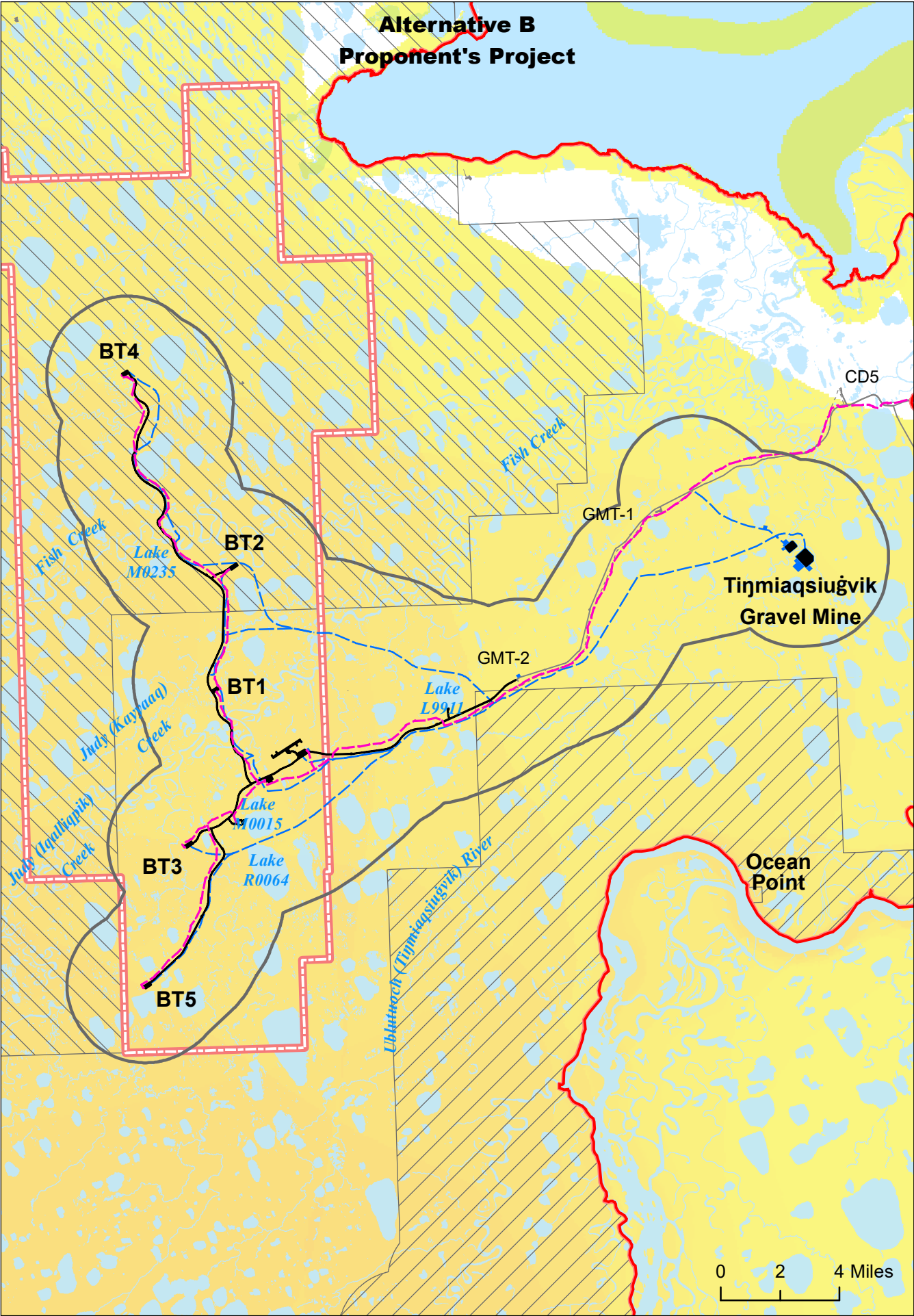
Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.16





Subsistence Data

High Overlapping Subsistence Use Areas
Low All Resources, 1997-2006^a

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

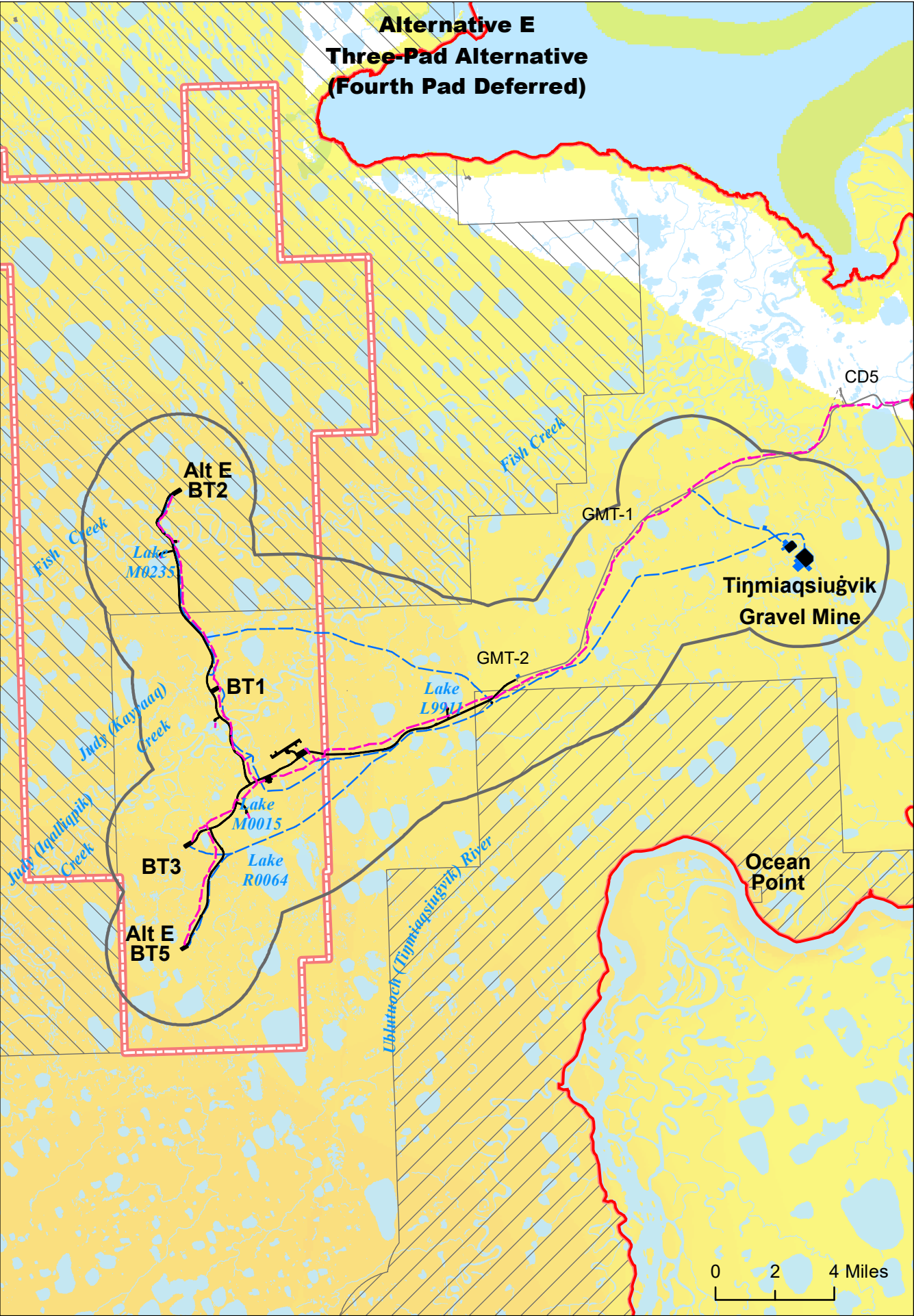
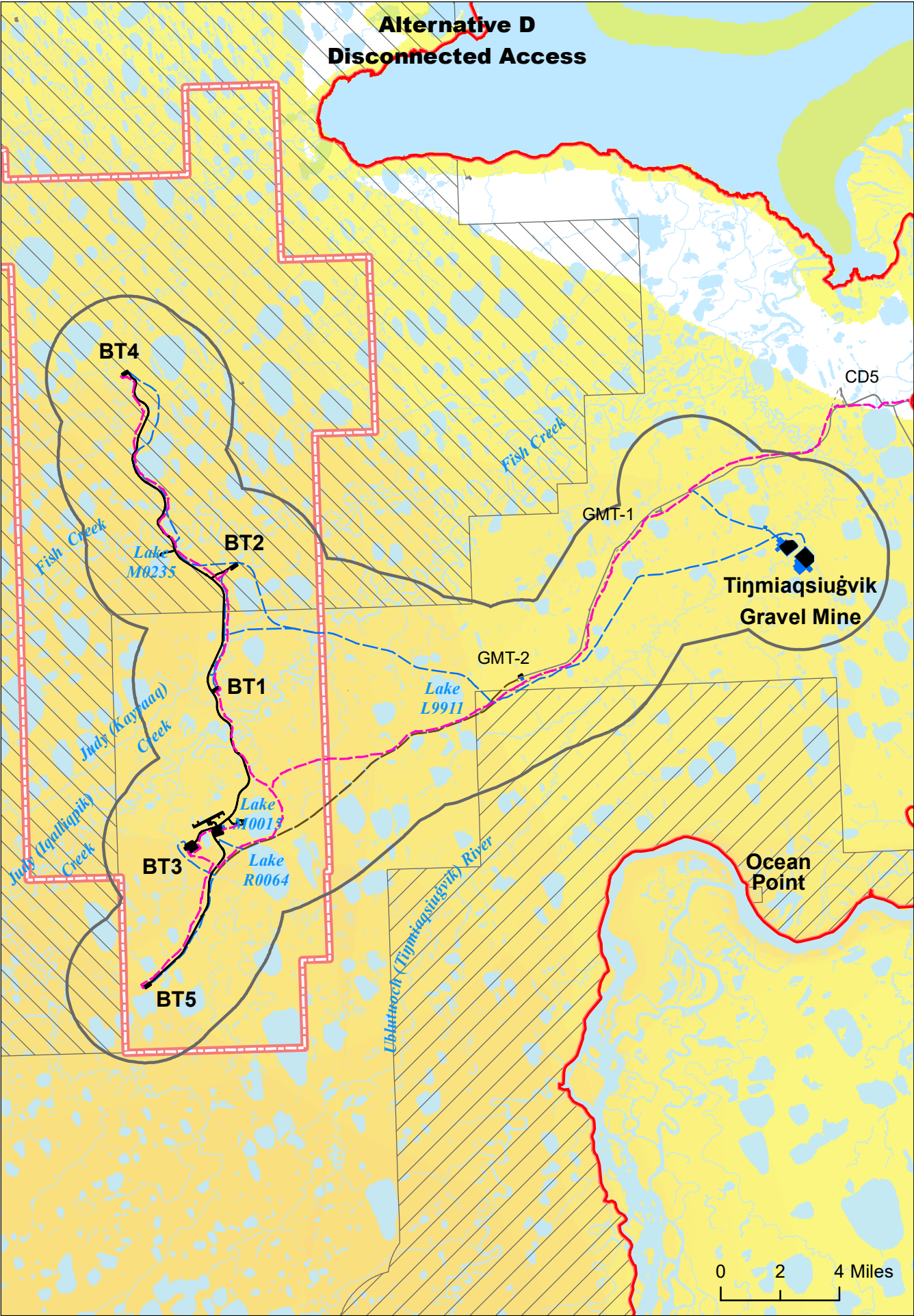
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.18



Subsistence Data

High Overlapping Subsistence Use Areas
Low All Resources, 1997-2006^a

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

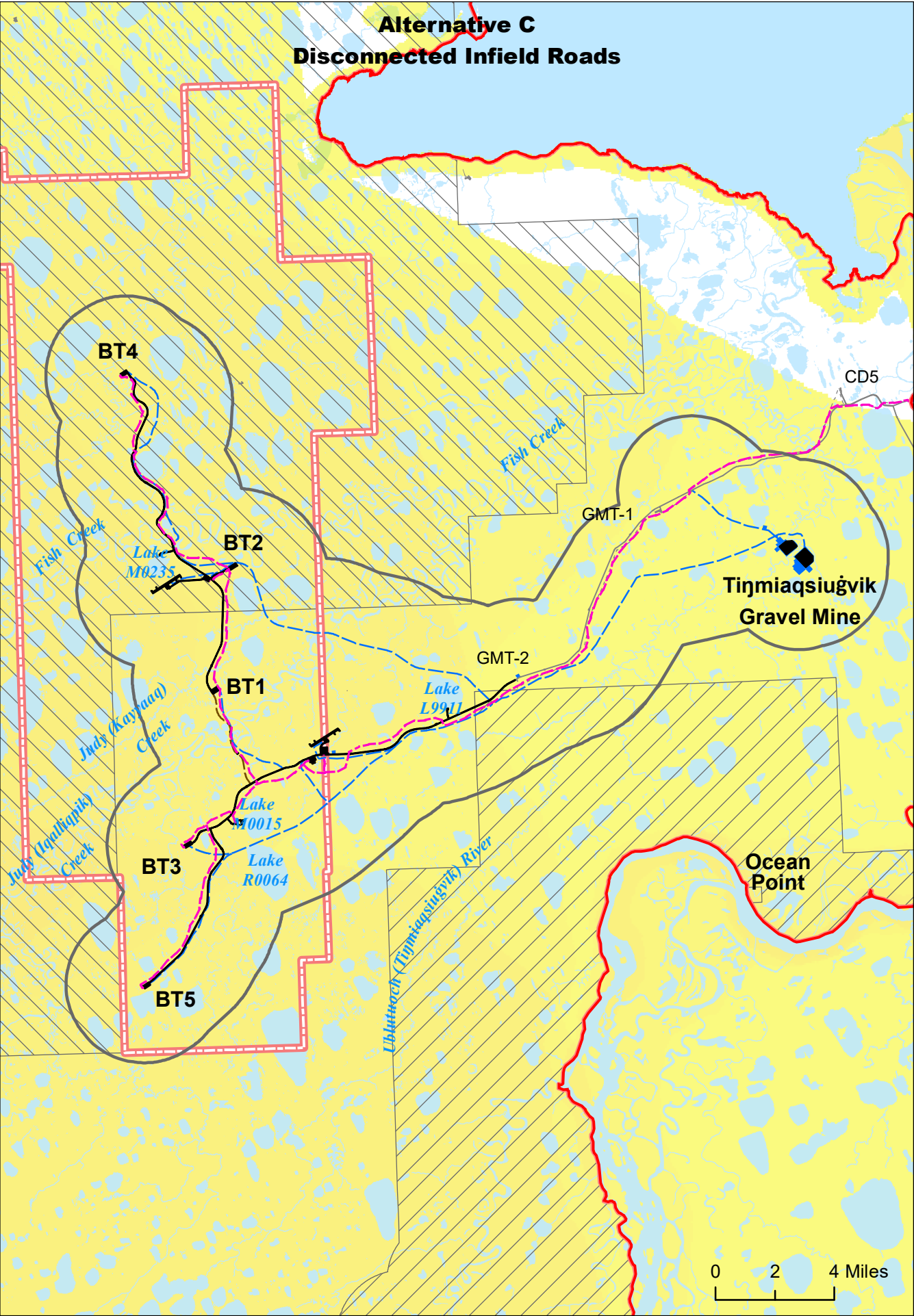
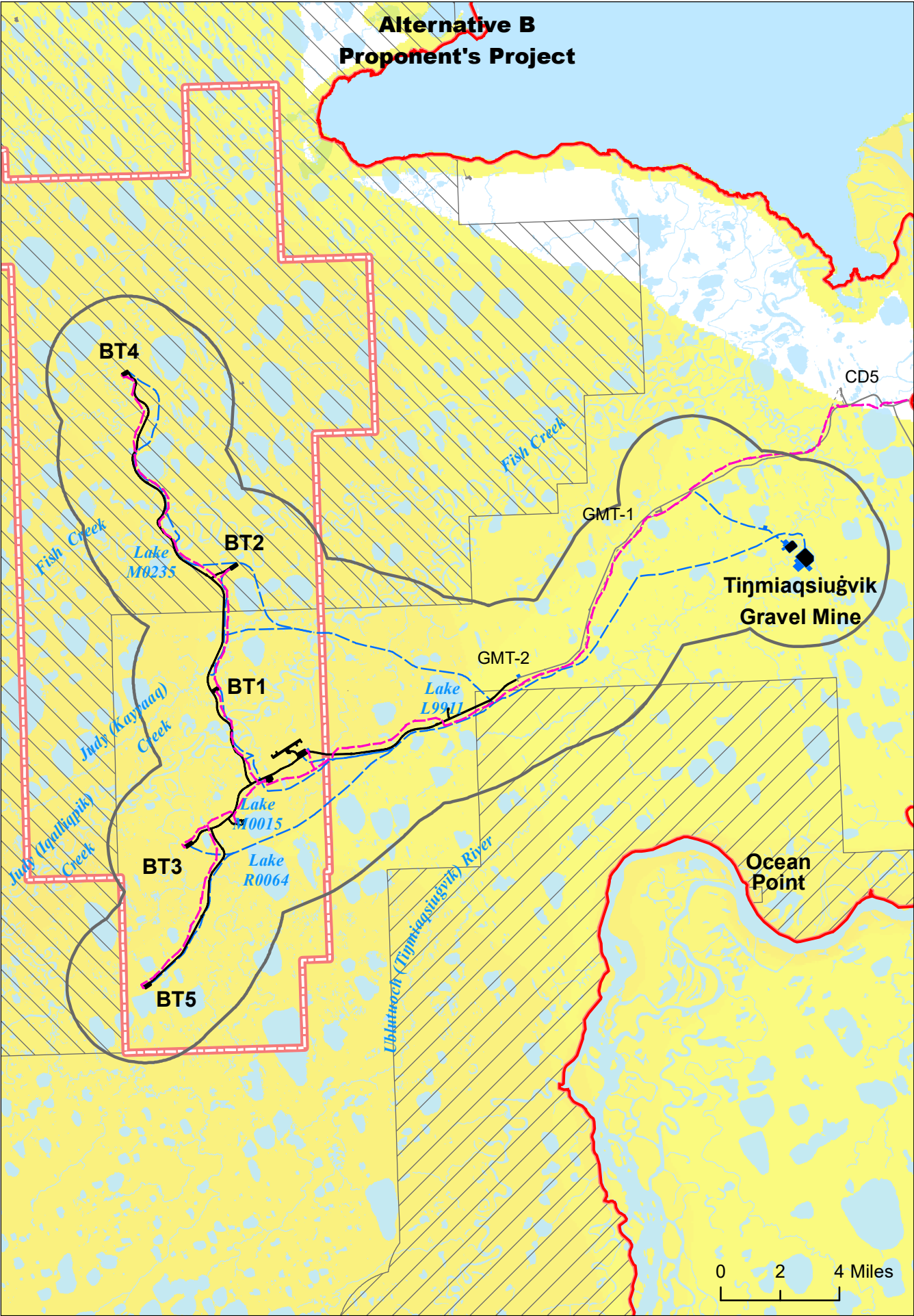
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.19



Subsistence Data

High Overlapping Subsistence Use Areas Caribou, 1997-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

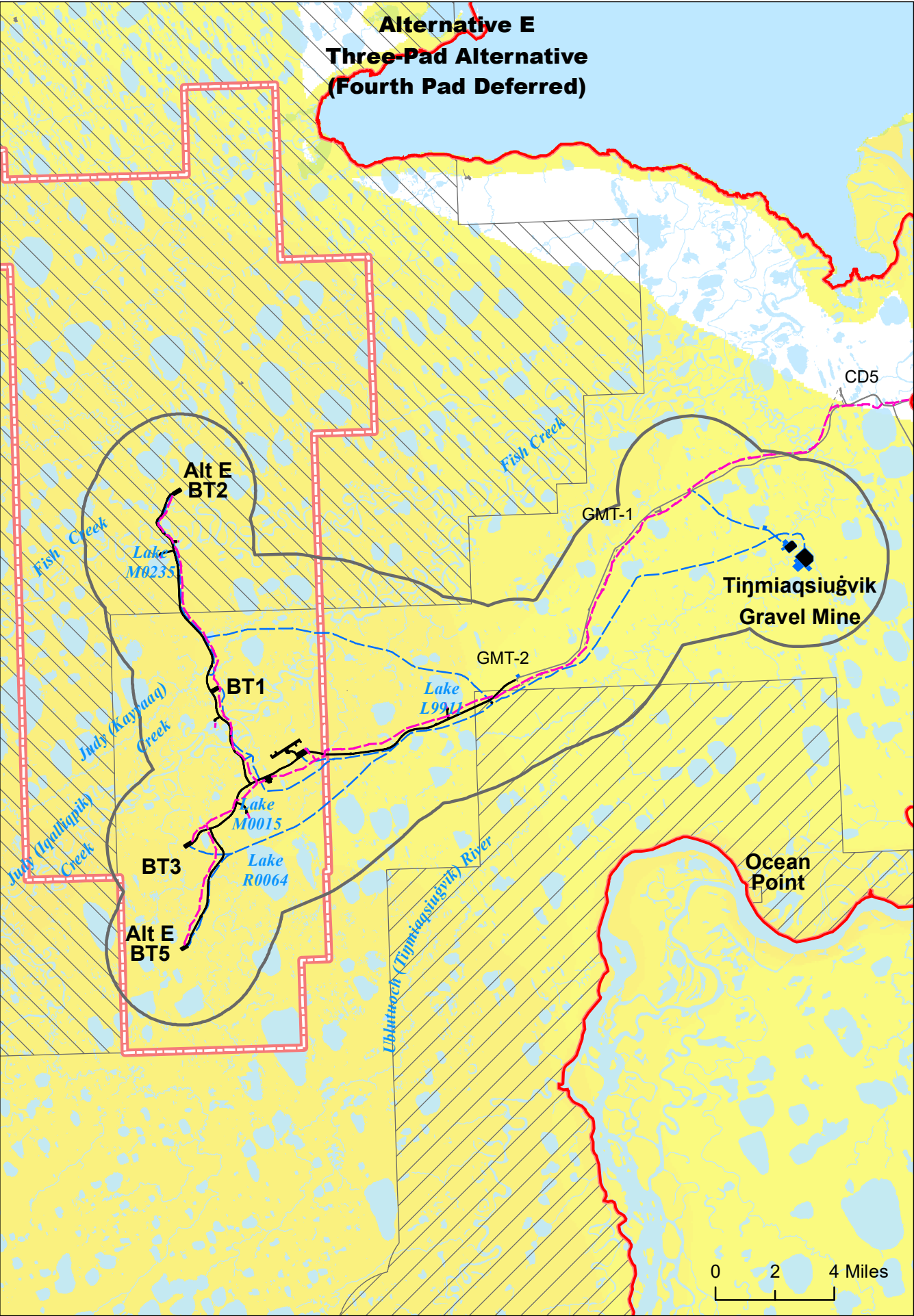
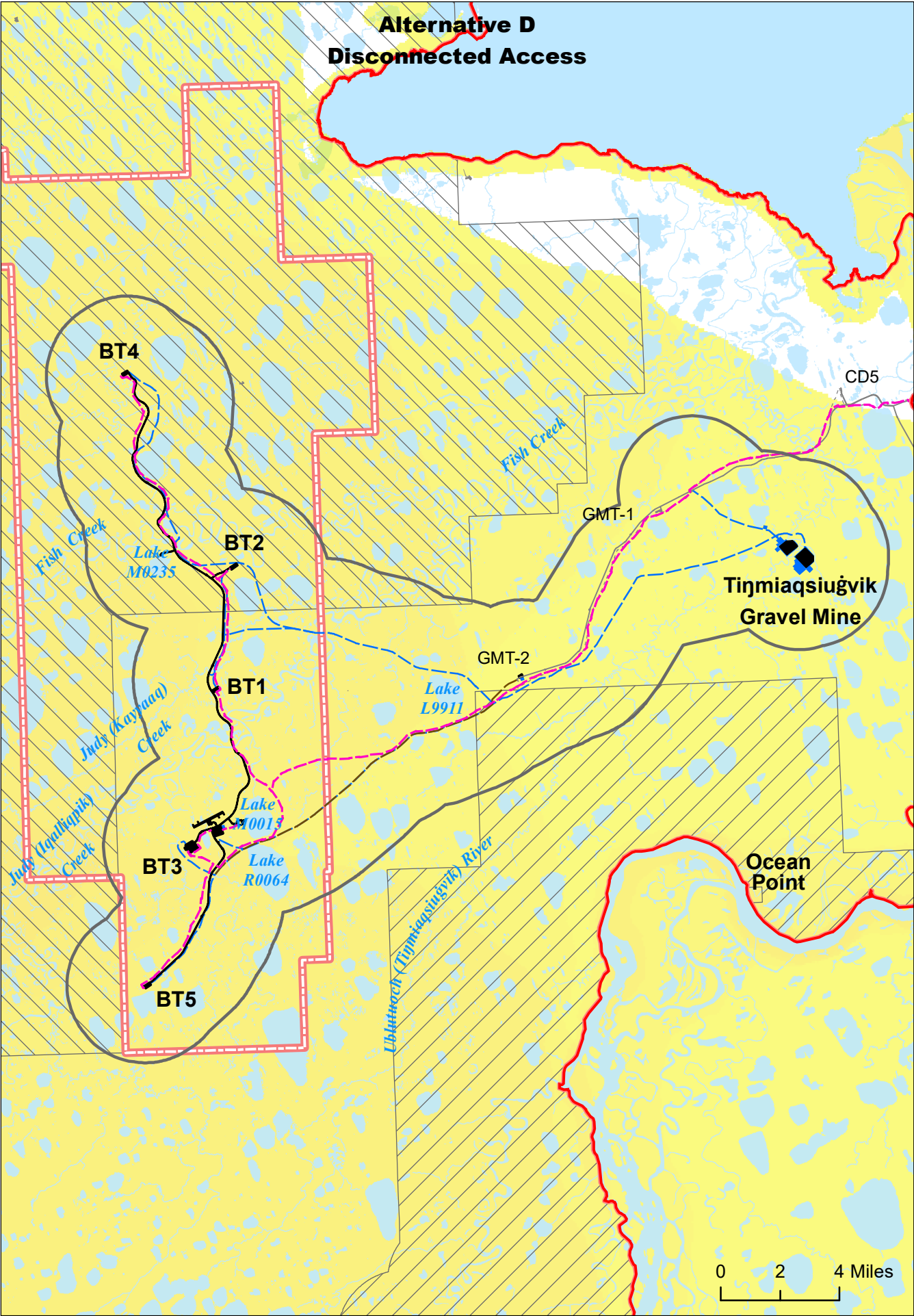
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
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Source
a. SRB&A 2010a

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Figure 3.16.20



Subsistence Data

High Overlapping Subsistence Use Areas Caribou, 1997-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshekpuk Lake Special

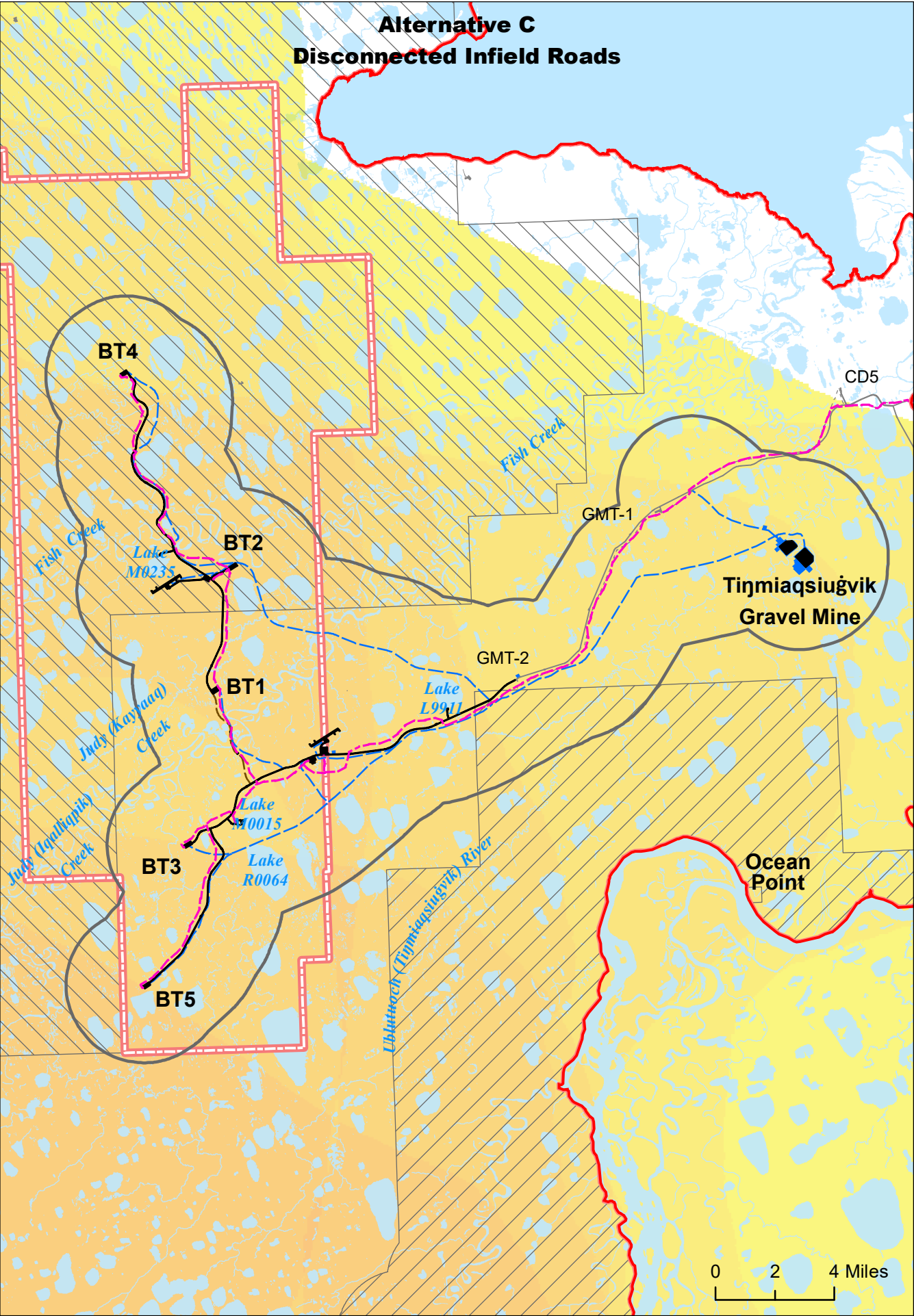
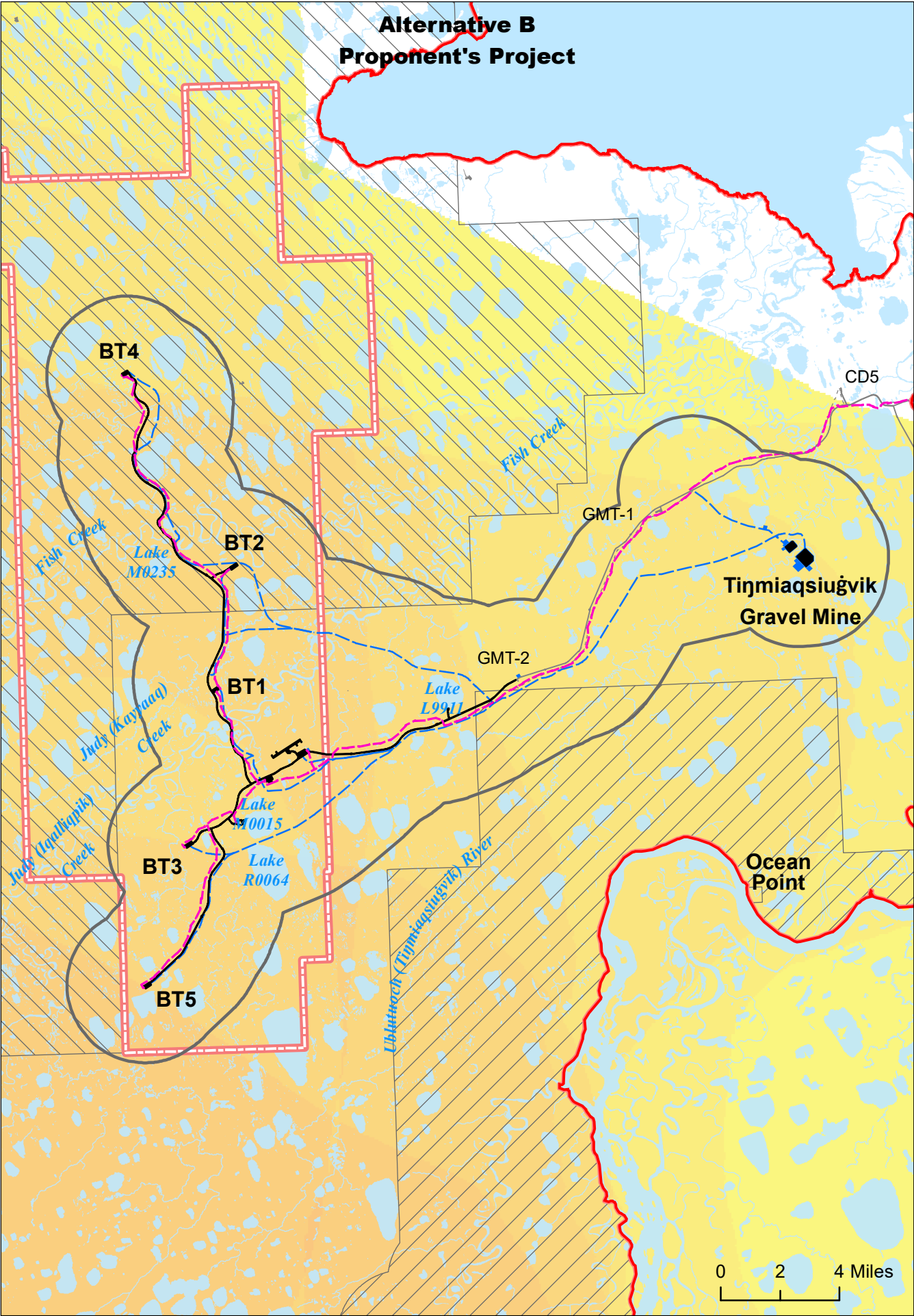
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
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Source
a. SRB&A 2010a

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Figure 3.16.21



Subsistence Data

High Overlapping Subsistence Use Areas Wolf and Wolverine 1997-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepuk Lake Special

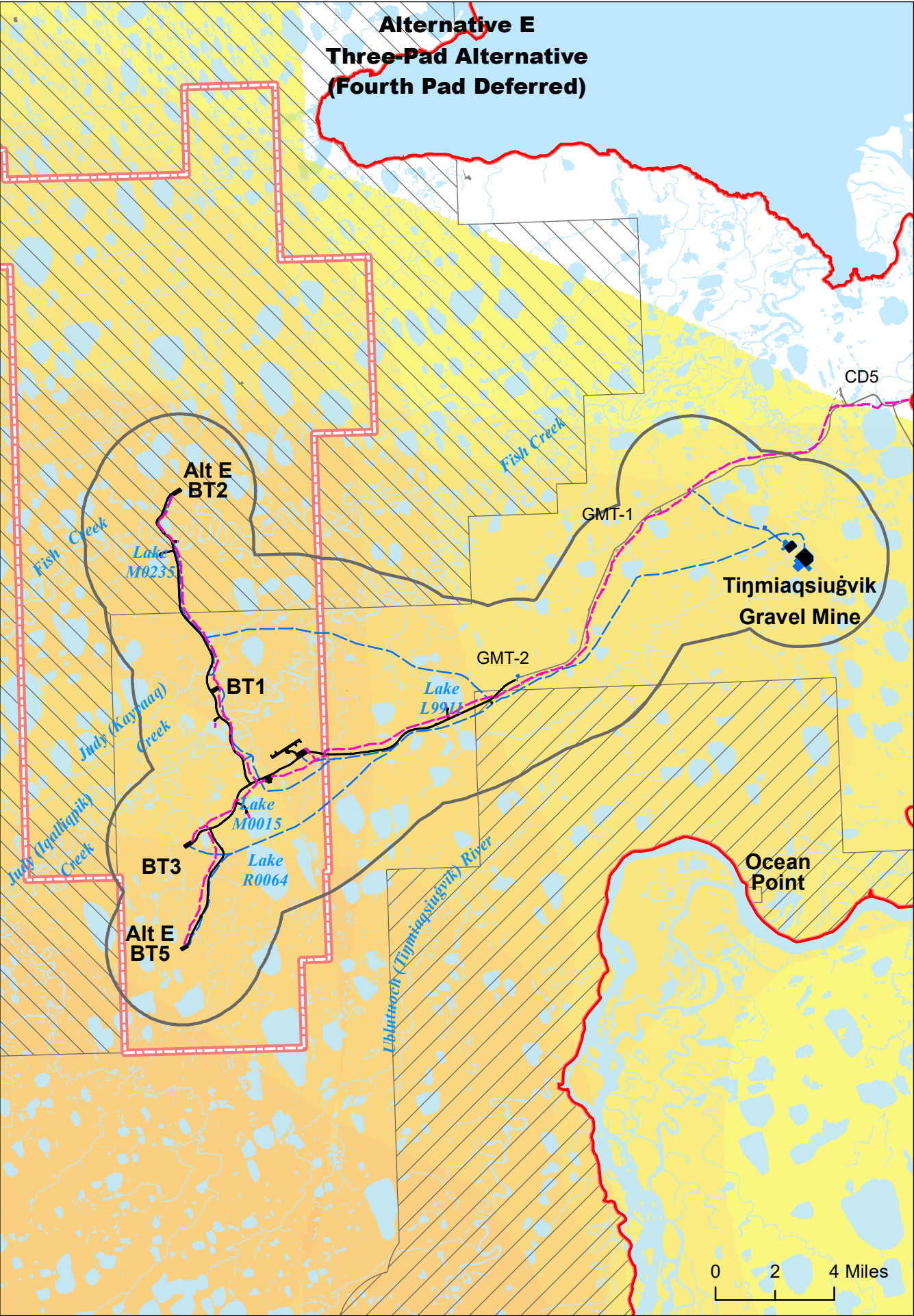
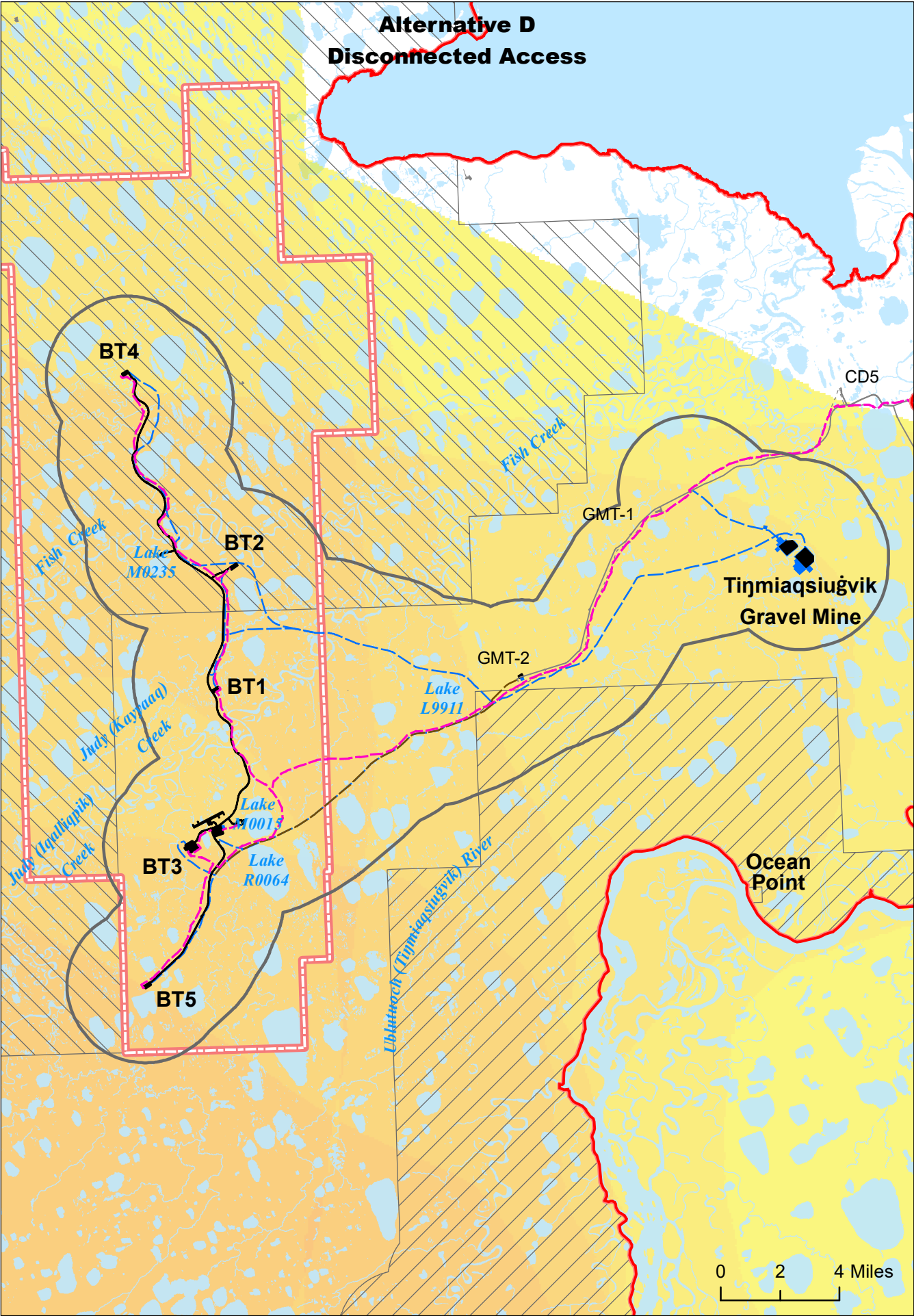
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
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Source
a. SRB&A 2010a

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Figure 3.16.22



Subsistence Data

High Overlapping Subsistence Use Areas Wolf and Wolverine 1997-2006^a

Low

Willow Proposed Development Features

Alternative Analysis Area *

New Pipeline New VSM

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshkepkuk Lake Special

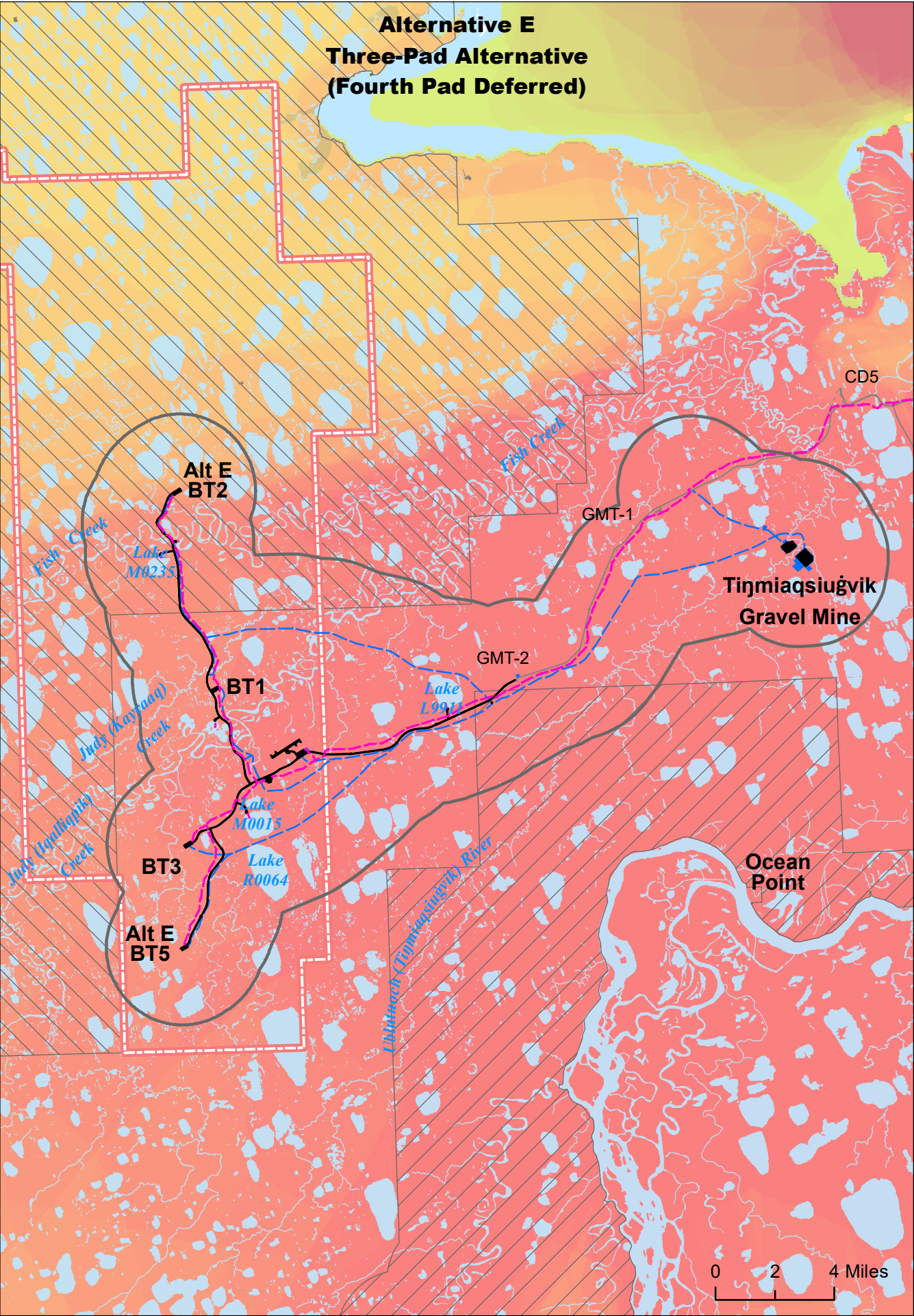
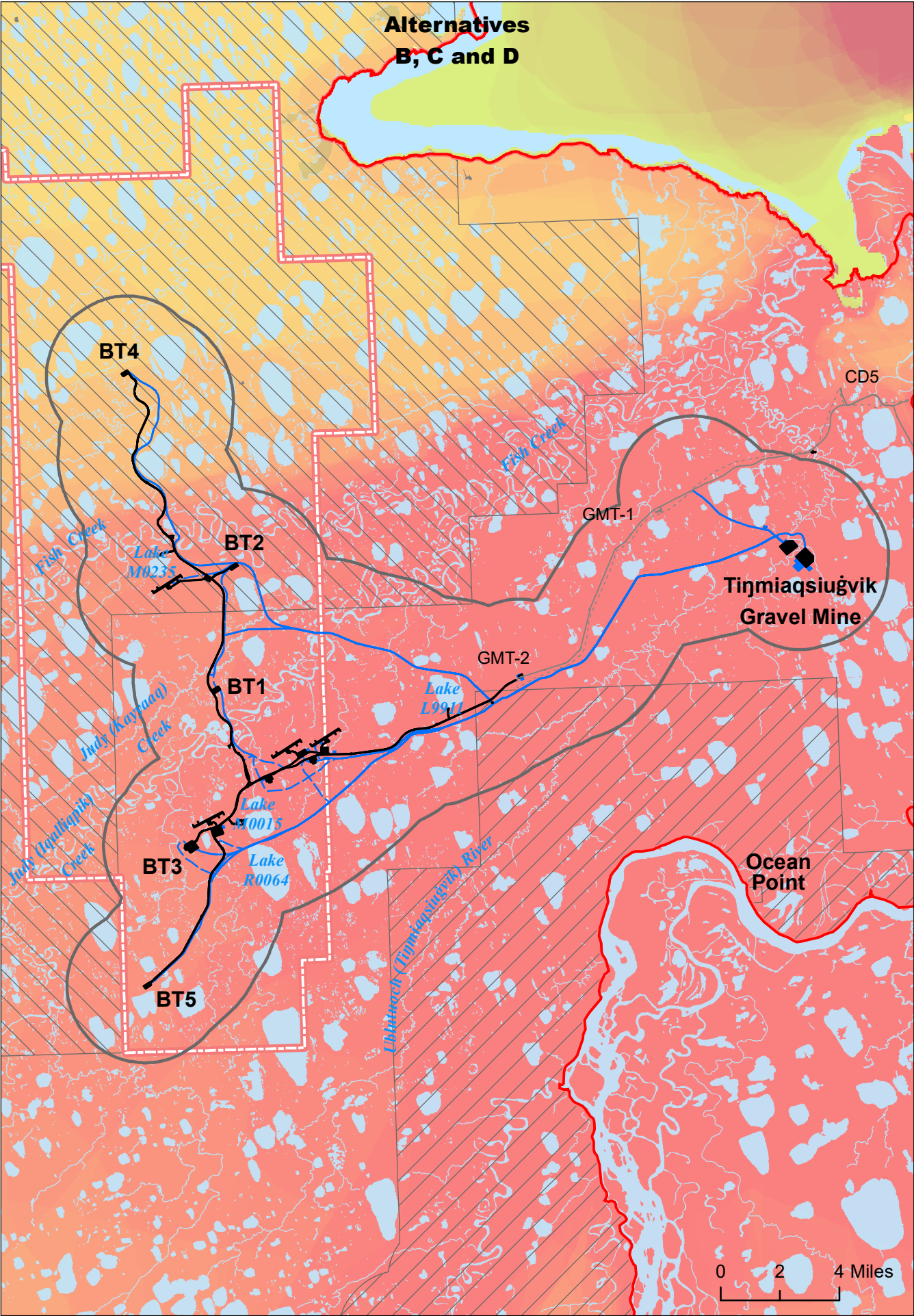
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
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Source
a. SRB&A 2010a

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Figure 3.16.23



Subsistence Data

High Overlapping Subsistence Use Areas
Low All Resources, 1995-2006^a

Willow Proposed Development Features

Alternative Analysis Area*
New Pipeline New VSM
Ice Road
Ice Pad
Gravel Footprint

Other Infrastructure

Existing Road
Existing Pipeline
Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area
Teshekpuk Lake Special Area

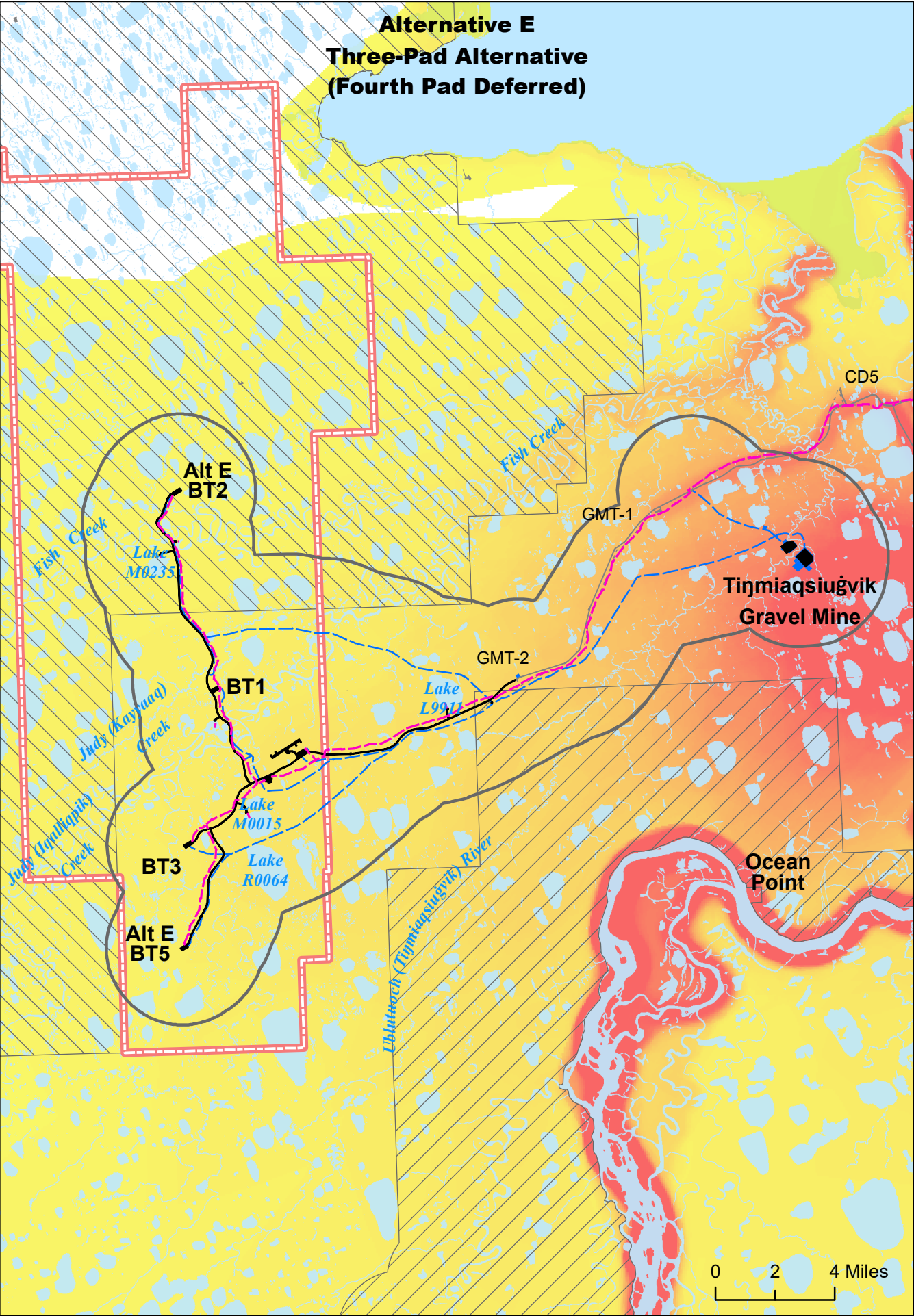
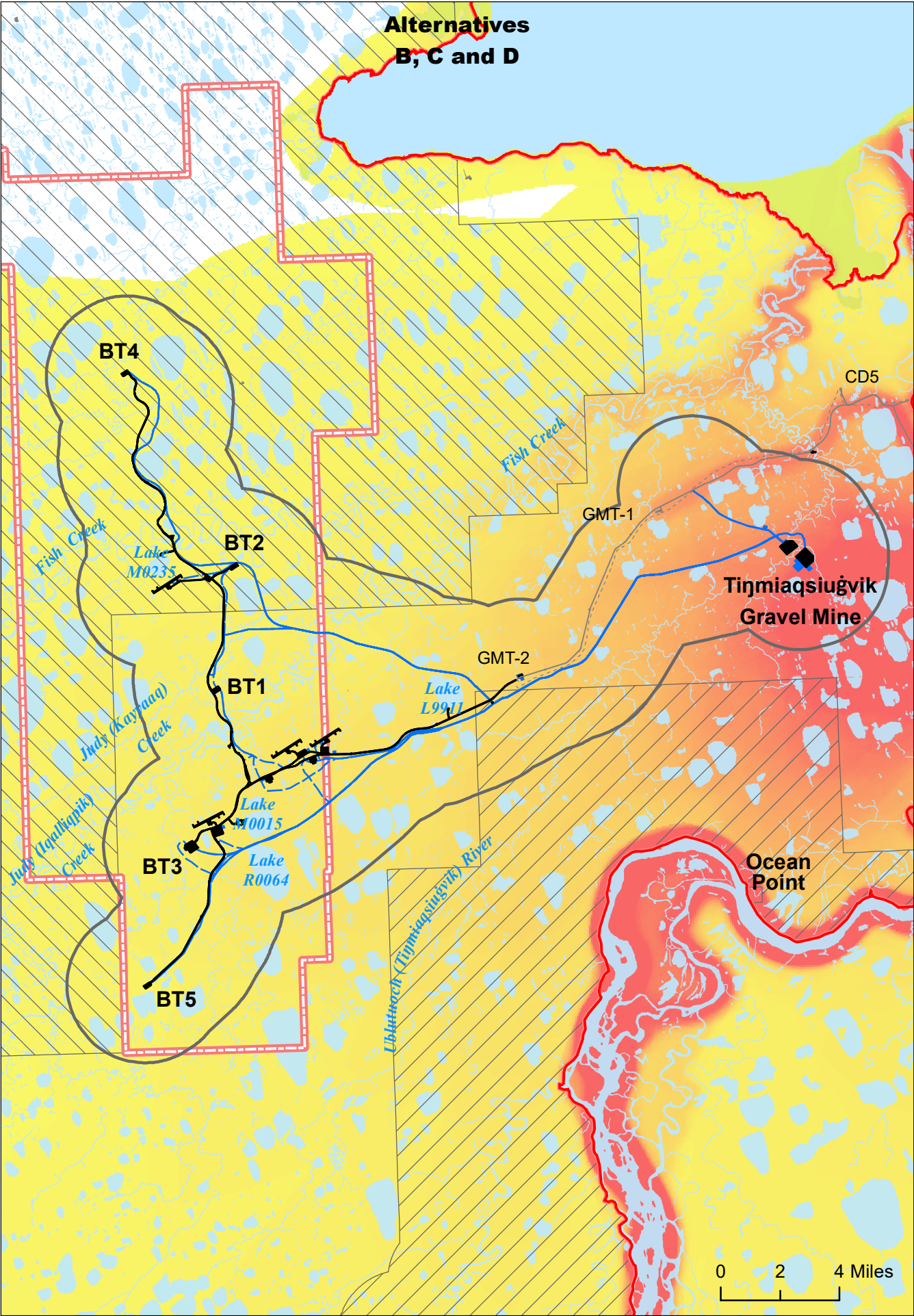
* The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
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Source
a. SRB&A 2010a

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Figure 3.16.24



Subsistence Data

High
Low

Overlapping Subsistence Use Areas Caribou, January 2008 through December 2019^a

Willow Proposed Development Features

Alternative Analysis Area*
New Pipeline New VSM
Ice Road
Ice Pad
Gravel Footprint

Other Infrastructure

Existing Road
Existing Pipeline
Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area
Teshekpuk Lake Special Area

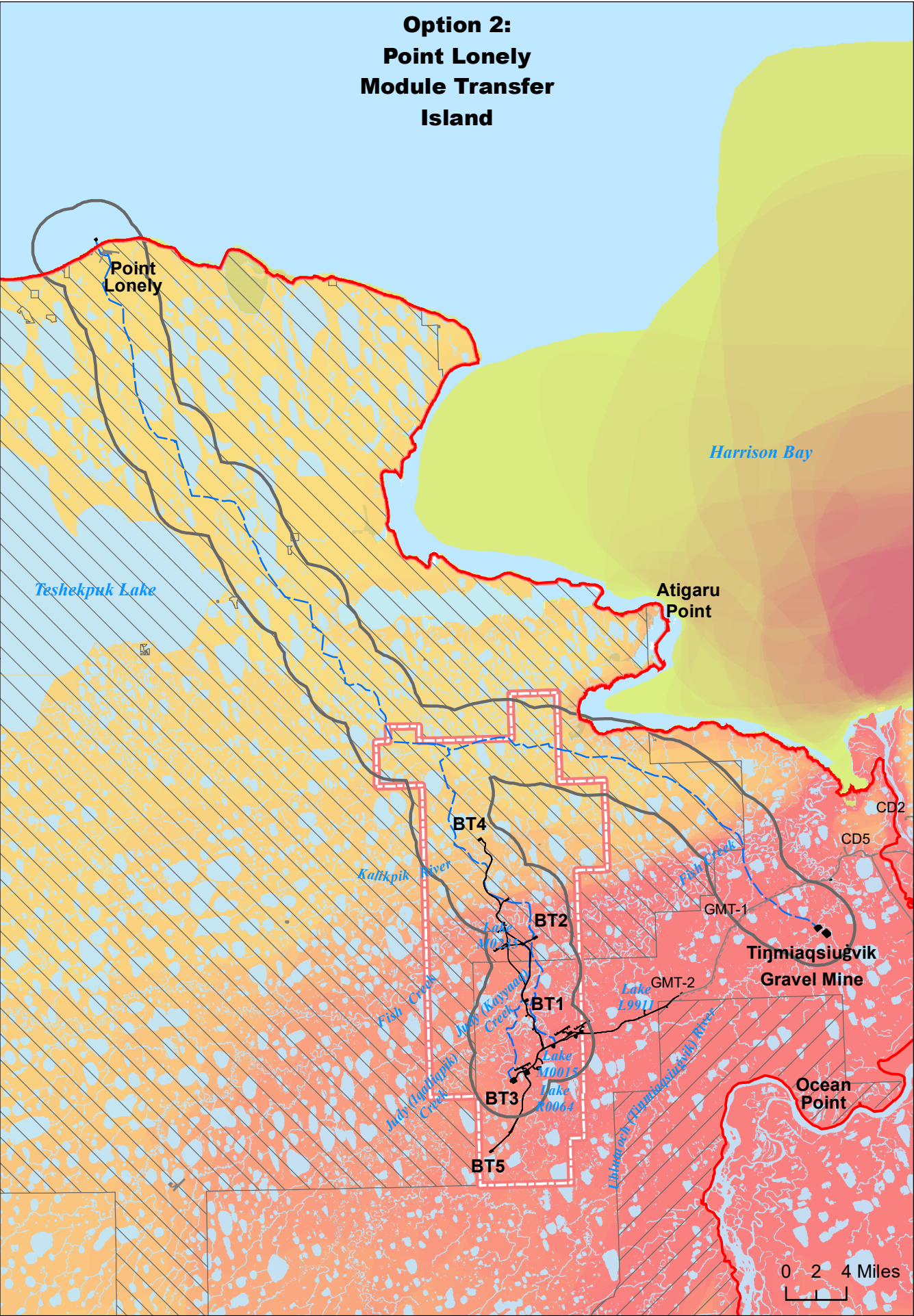
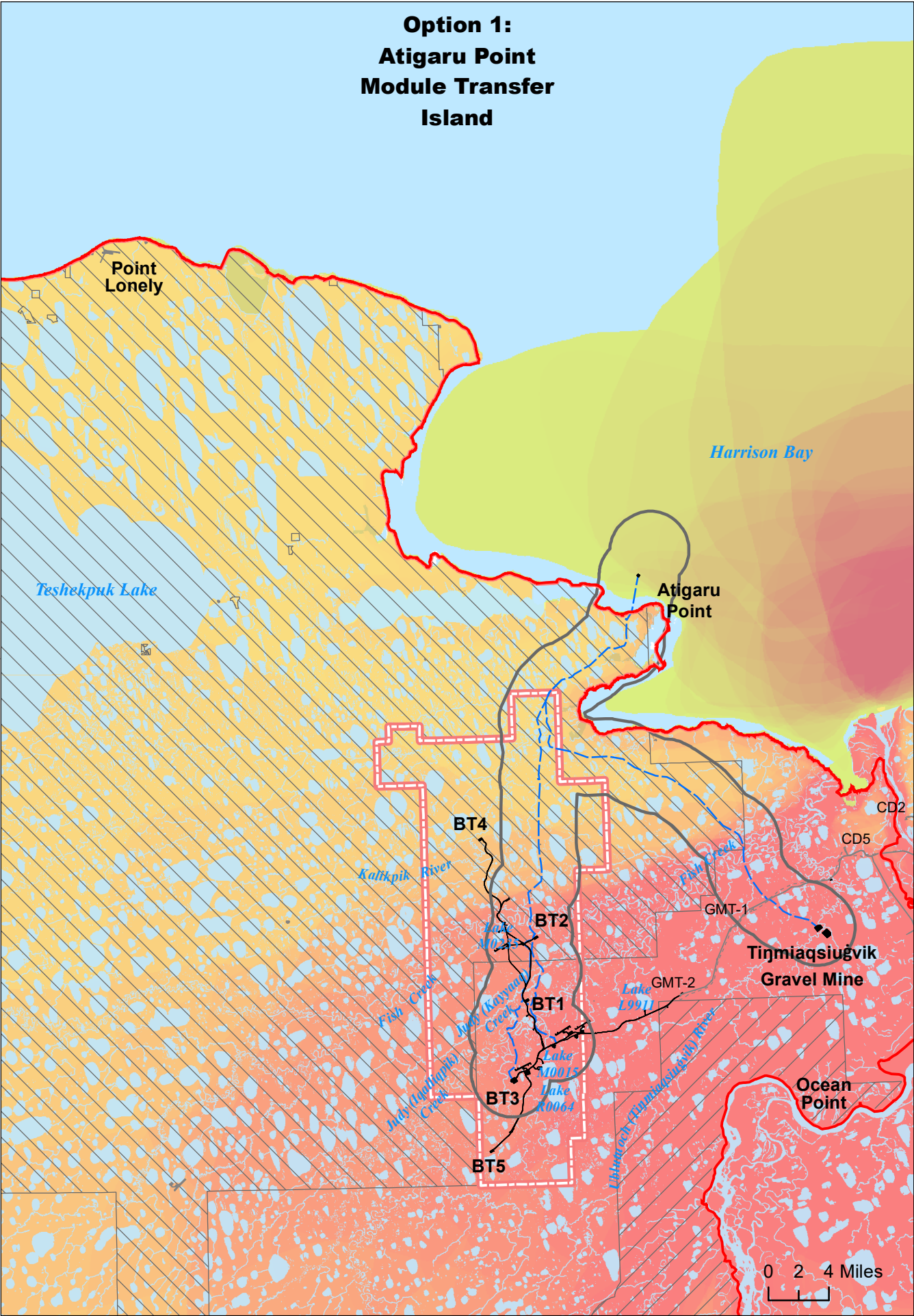
^a The alternatives analysis area also includes Oliktok Dock (see Maps 3.16.6 and 3.16.17)

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2021

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Figure 3.16.25



Subsistence Data

- High Overlapping Subsistence Use Areas All Resources, 1995-2006^a
- Low

Willow Proposed Development Features

- Module Transport Analysis Area
- Ice Road
- Ice Pad
- Gravel Footprint

Other Infrastructure

- Existing Road
- Existing Pipeline
- Existing Infrastructure

Land Designation

- National Petroleum Reserve in Alaska

Oil and Gas Unit

- Bear Tooth Unit

NPR-A Special Areas

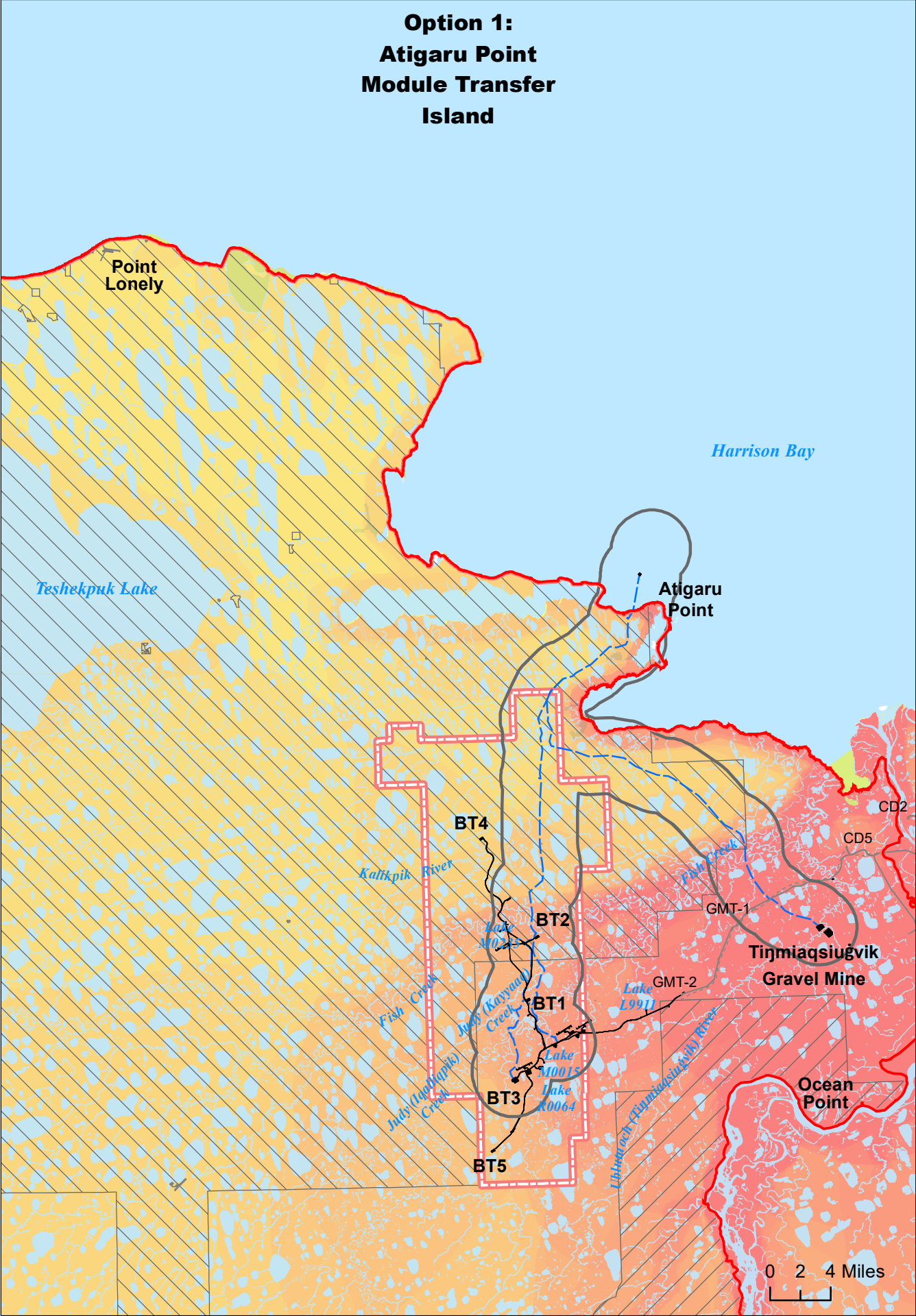
- Colville River Special Area
- Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.26



Subsistence Data

- High Overlapping Subsistence Use Areas Caribou, 1995-2006^a
- Low

Willow Proposed Development Features

- Module Transport Analysis Area
- Ice Road
- Ice Pad
- Gravel Footprint

Other Infrastructure

- Existing Road
- Existing Pipeline
- Existing Infrastructure

Land Designation

- National Petroleum Reserve in Alaska

Oil and Gas Unit

- Bear Tooth Unit

NPR-A Special Areas

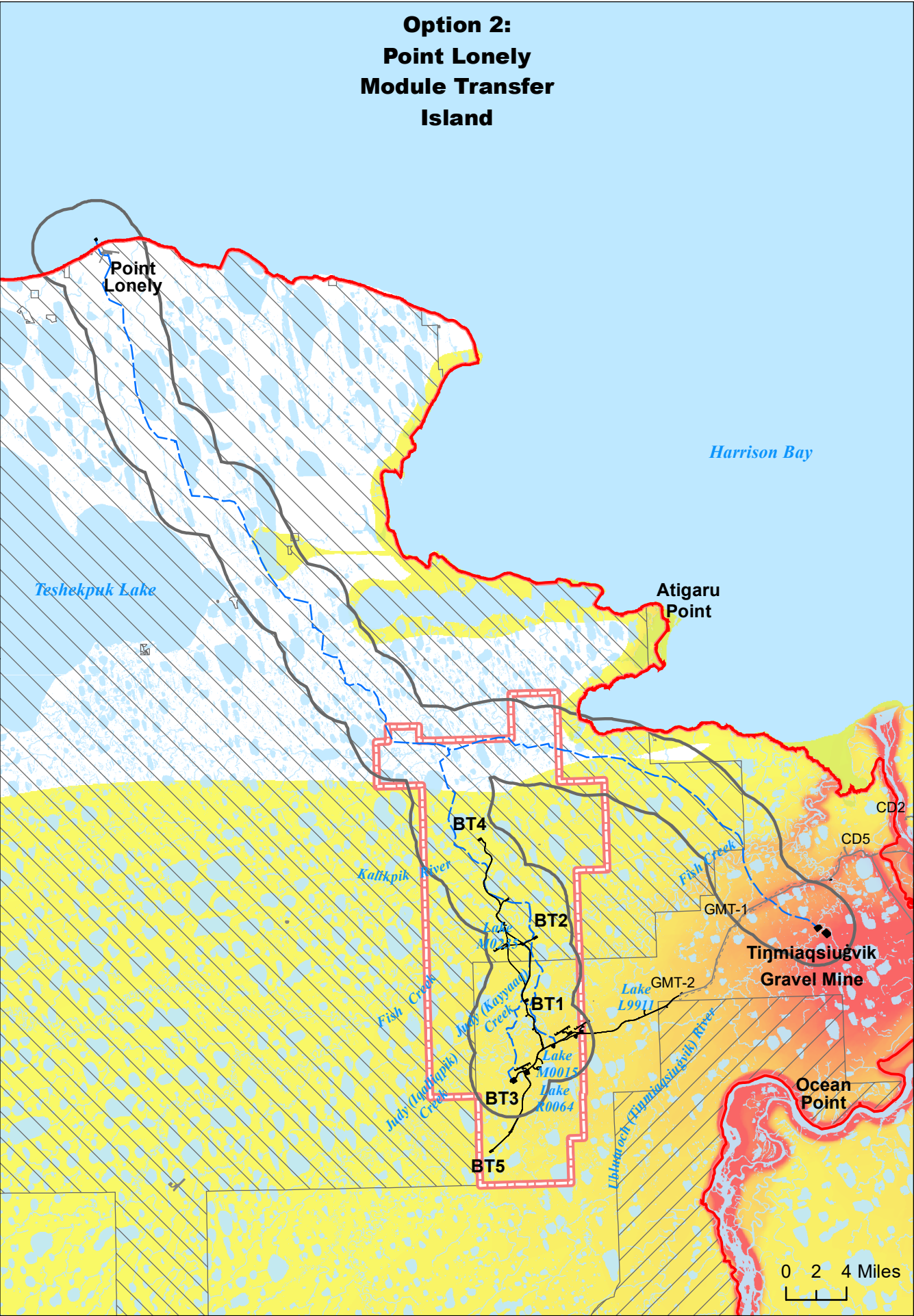
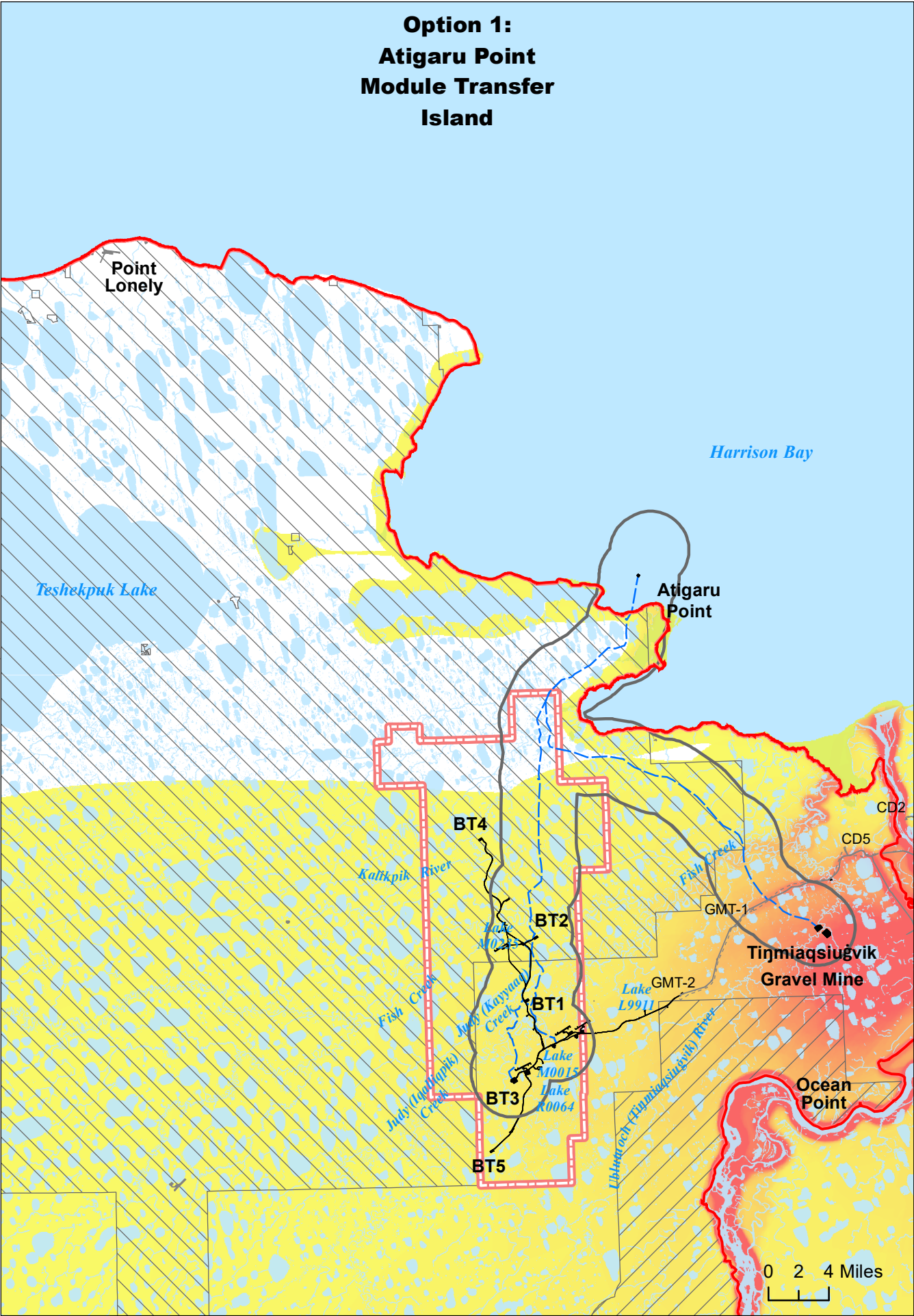
- Colville River Special Area
- Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.27



Subsistence Data

High Overlapping Subsistence Use Areas Caribou, January 2008 through December 2019

Low

Willow Proposed Development Features

Module Transport Analysis Area

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

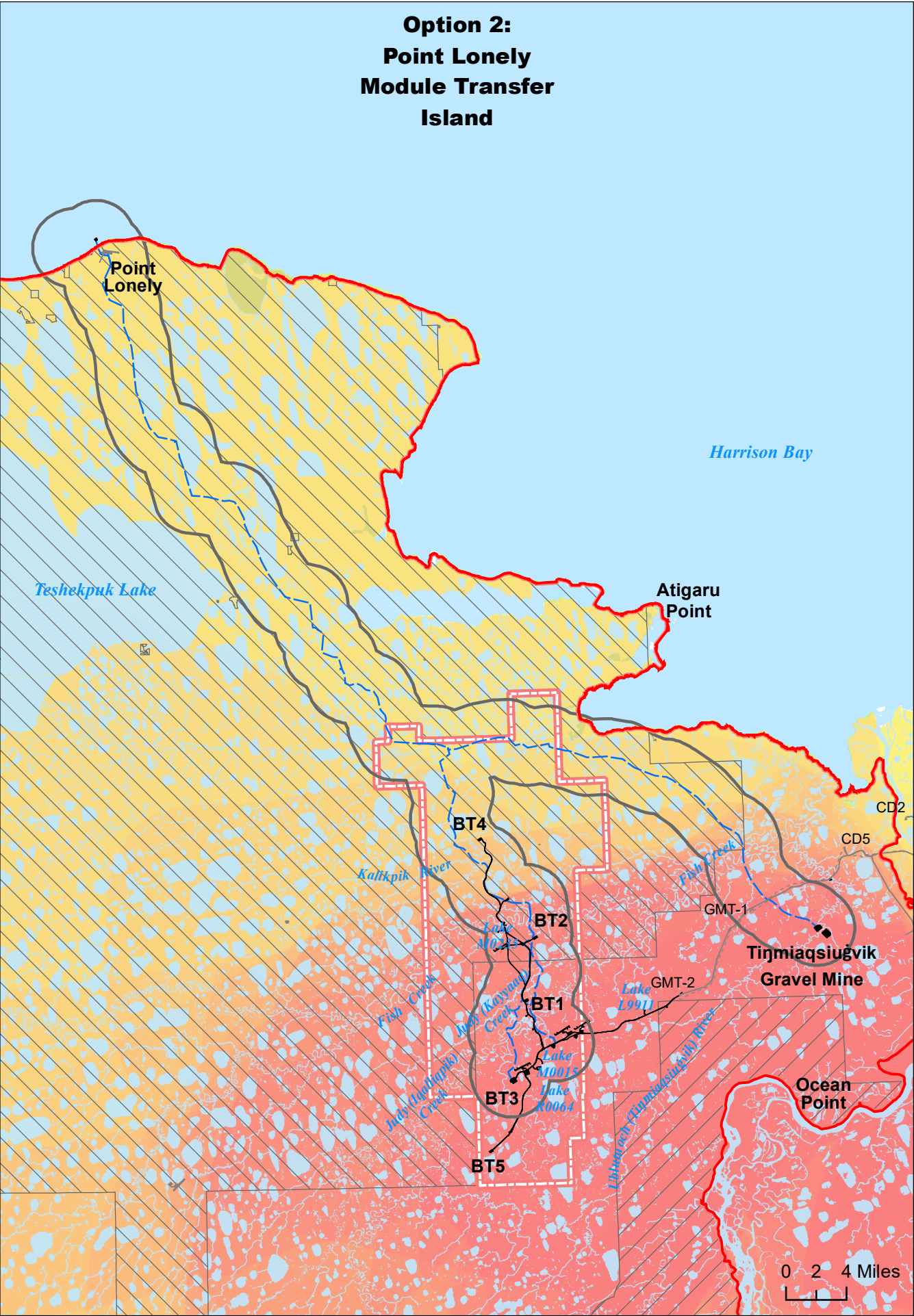
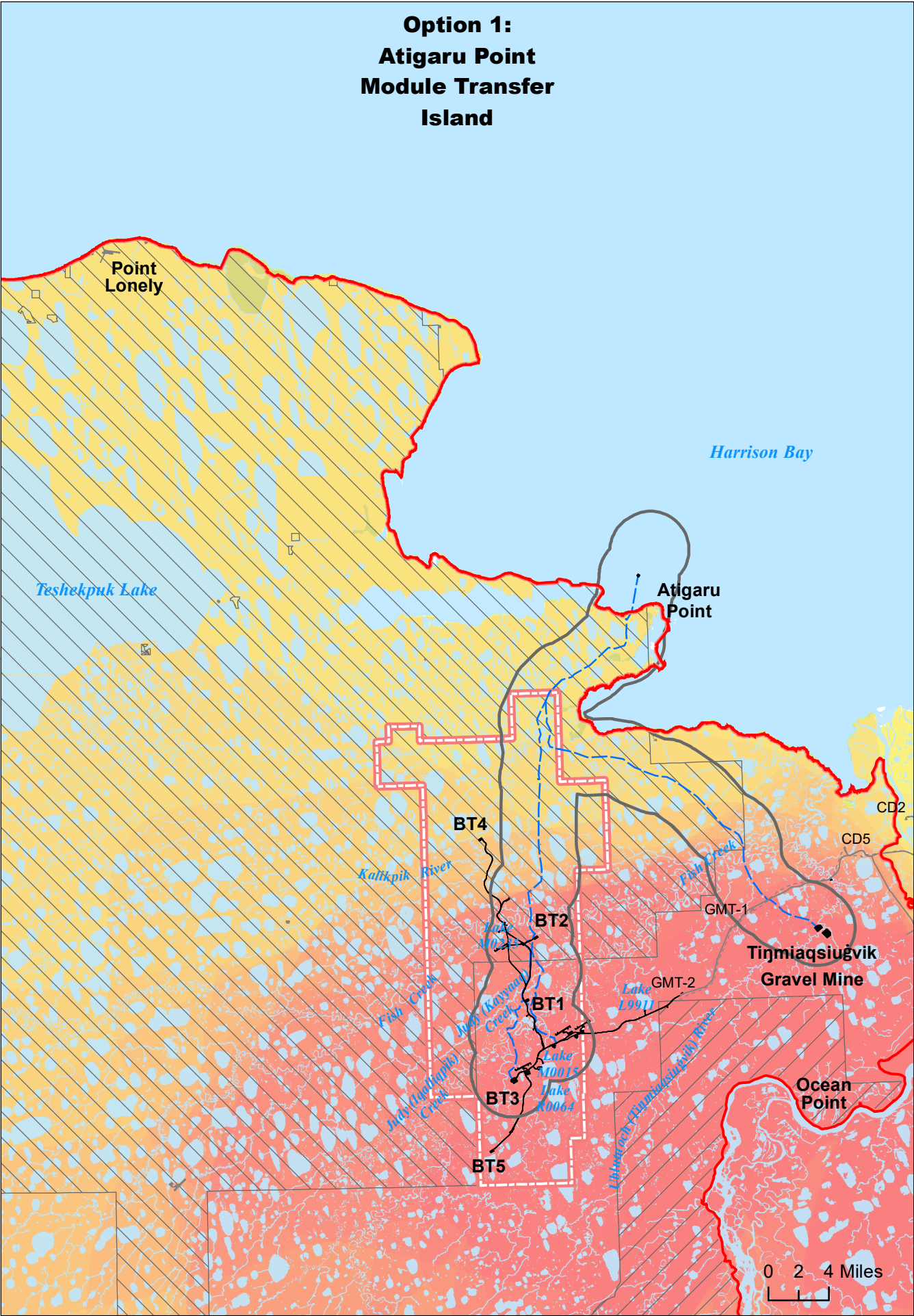
Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2021

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Figure 3.16.28



Subsistence Data

- High Overlapping Subsistence Use Areas Wolf and Wolverine, 1995-2006^a
- Low

Willow Proposed Development Features

- Module Transport Analysis Area
- Ice Road
- Ice Pad
- Gravel Footprint

Other Infrastructure

- Existing Road
- Existing Pipeline
- Existing Infrastructure

Land Designation

- National Petroleum Reserve in Alaska

Oil and Gas Unit

- Bear Tooth Unit

NPR-A Special Areas

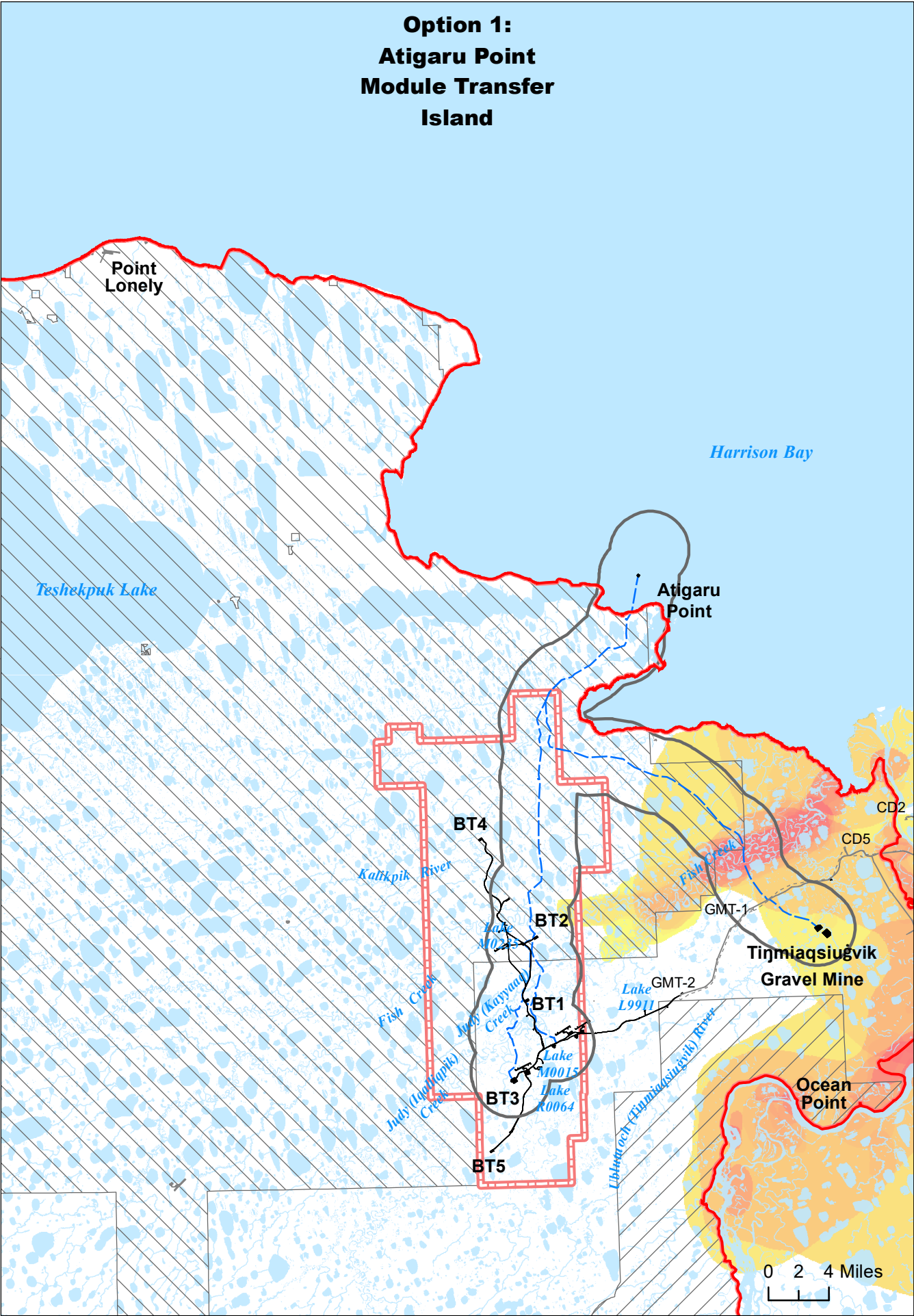
- Colville River Special Area
- Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.29



Subsistence Data

High Overlapping Subsistence Use Areas
Low Goose, 1995-2006^a

Willow Proposed Development Features

Module Transport Analysis Area
Ice Road
Ice Pad
Gravel Footprint

Other Infrastructure

Existing Road
Existing Pipeline
Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

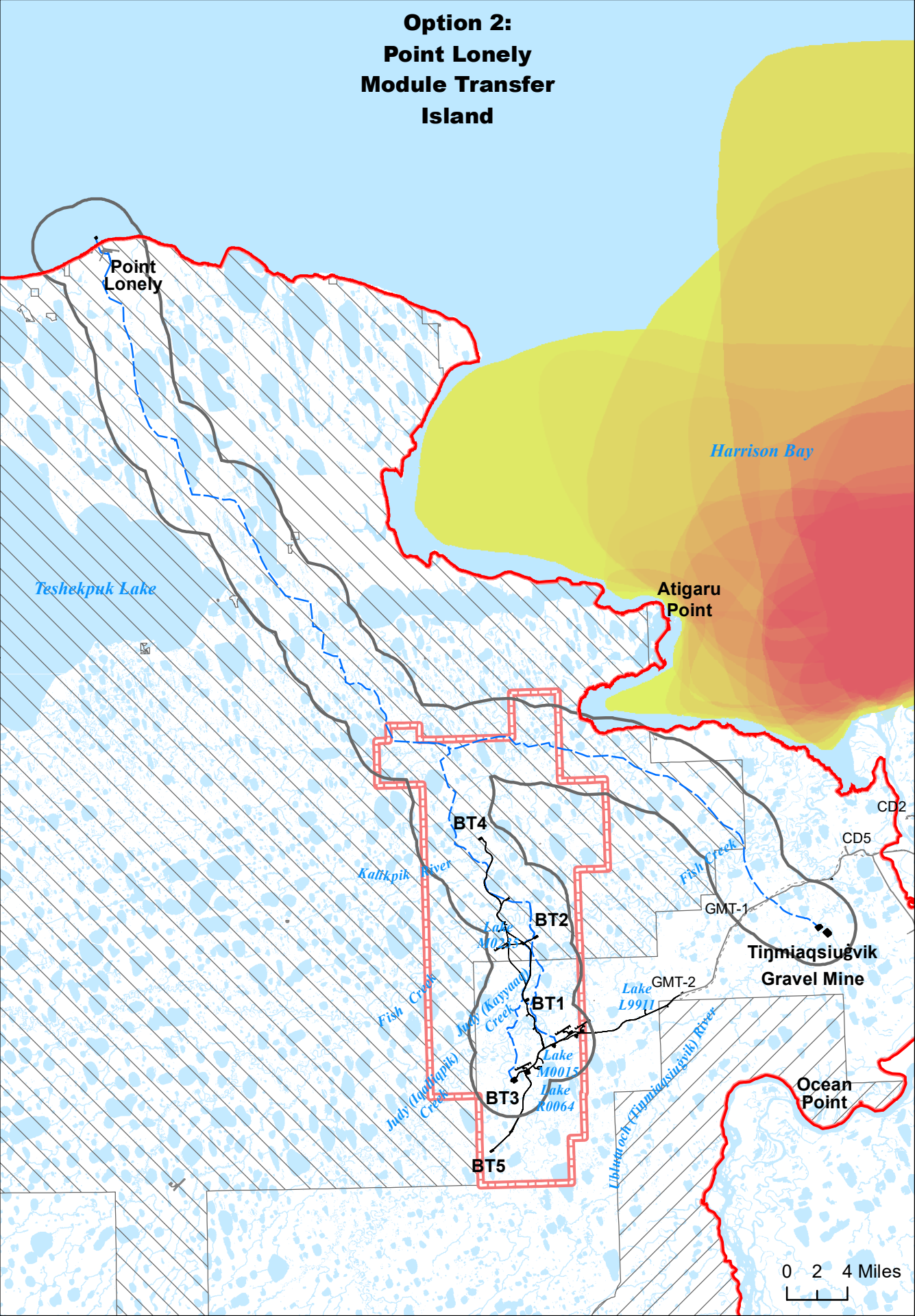
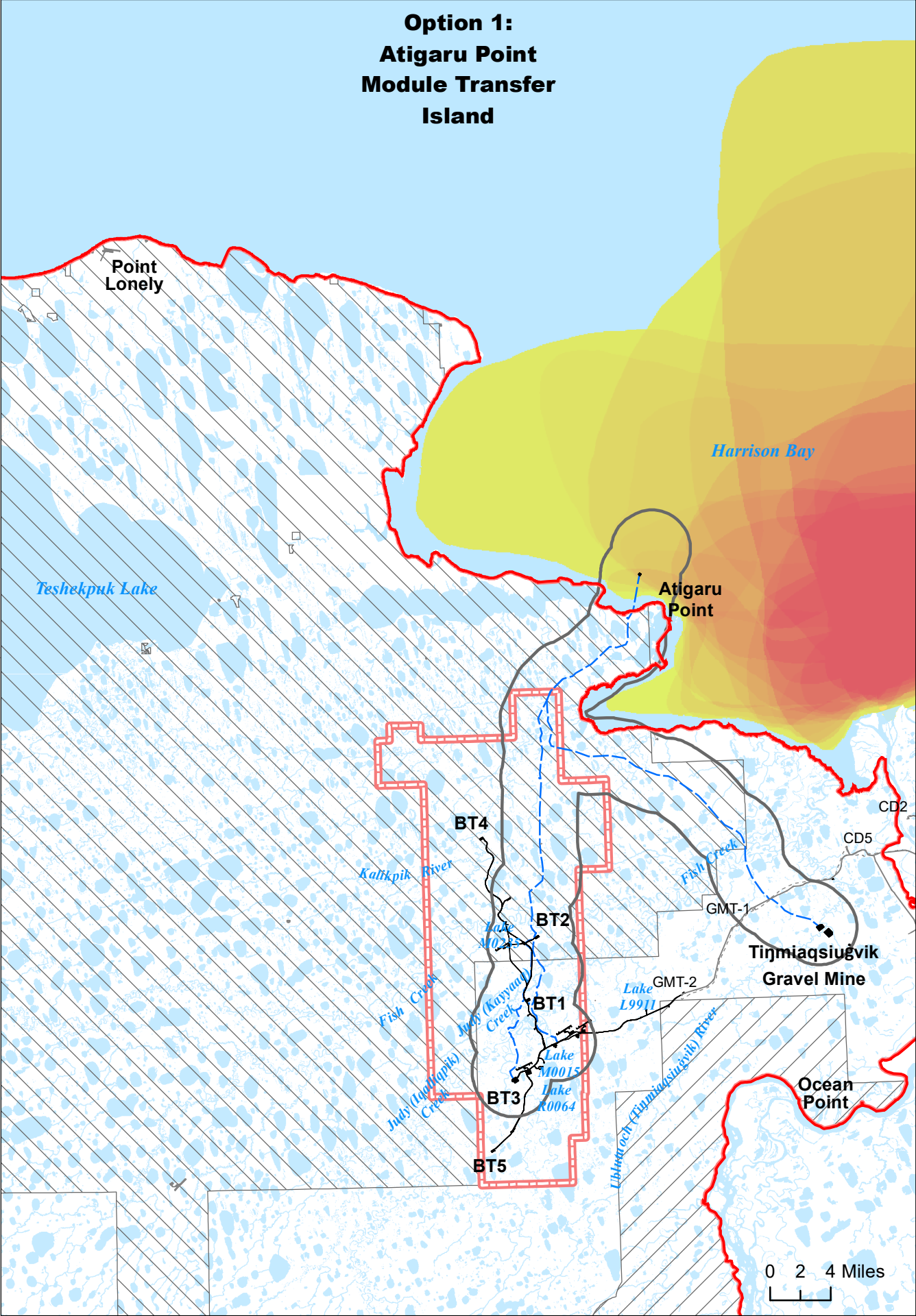
Colville River Special Area
Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.30



Subsistence Data

High Overlapping Subsistence Use Areas Seal, 1995-2006^a

Low

Willow Proposed Development Features

Module Transport Analysis Area

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

Teshekpuk Lake Special Area

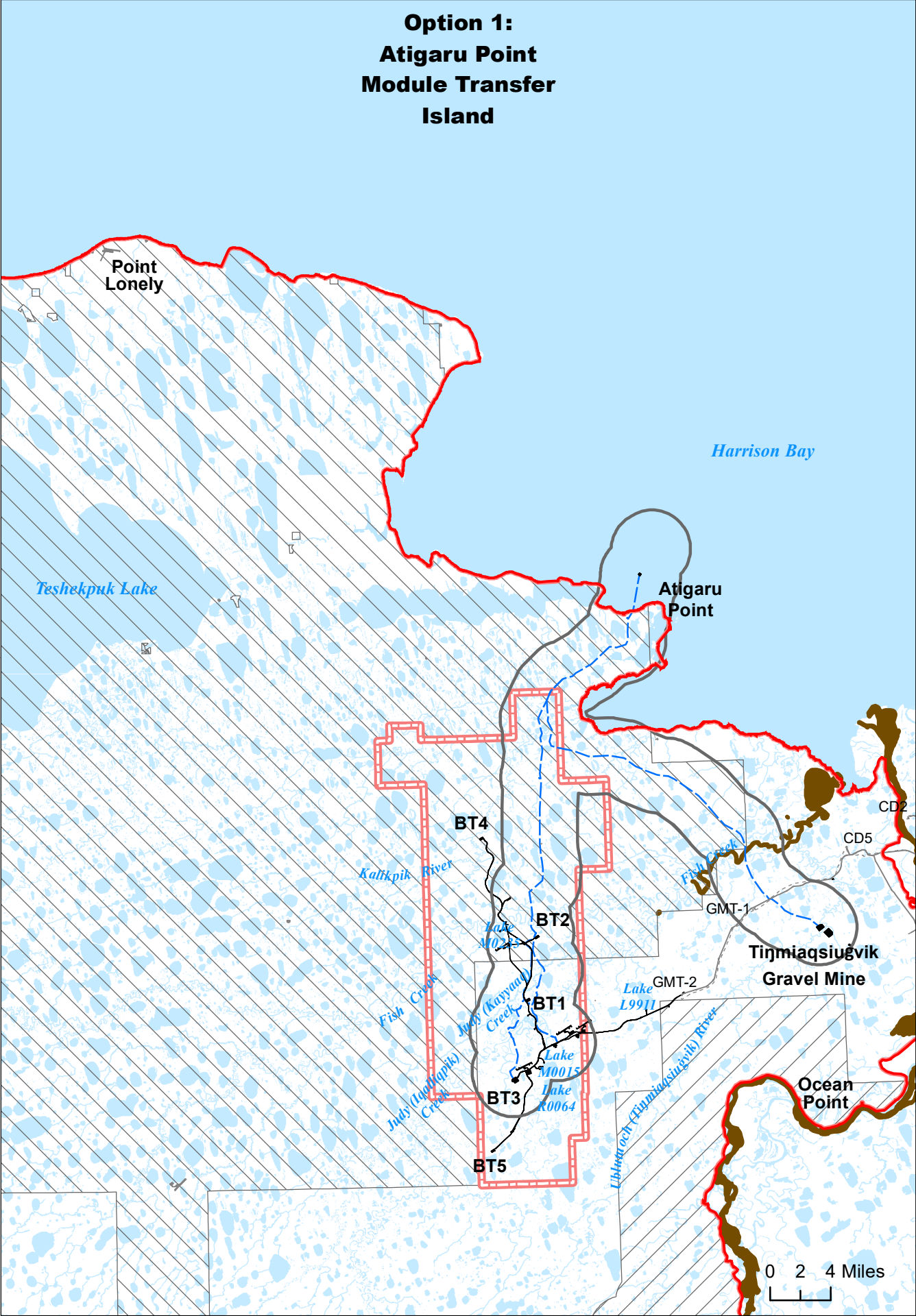
Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.31

Figure 3.16.32



Subsistence Data

Fish, 1995-2006 ^a

Willow Proposed Development Features

Module Transport Analysis Area

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

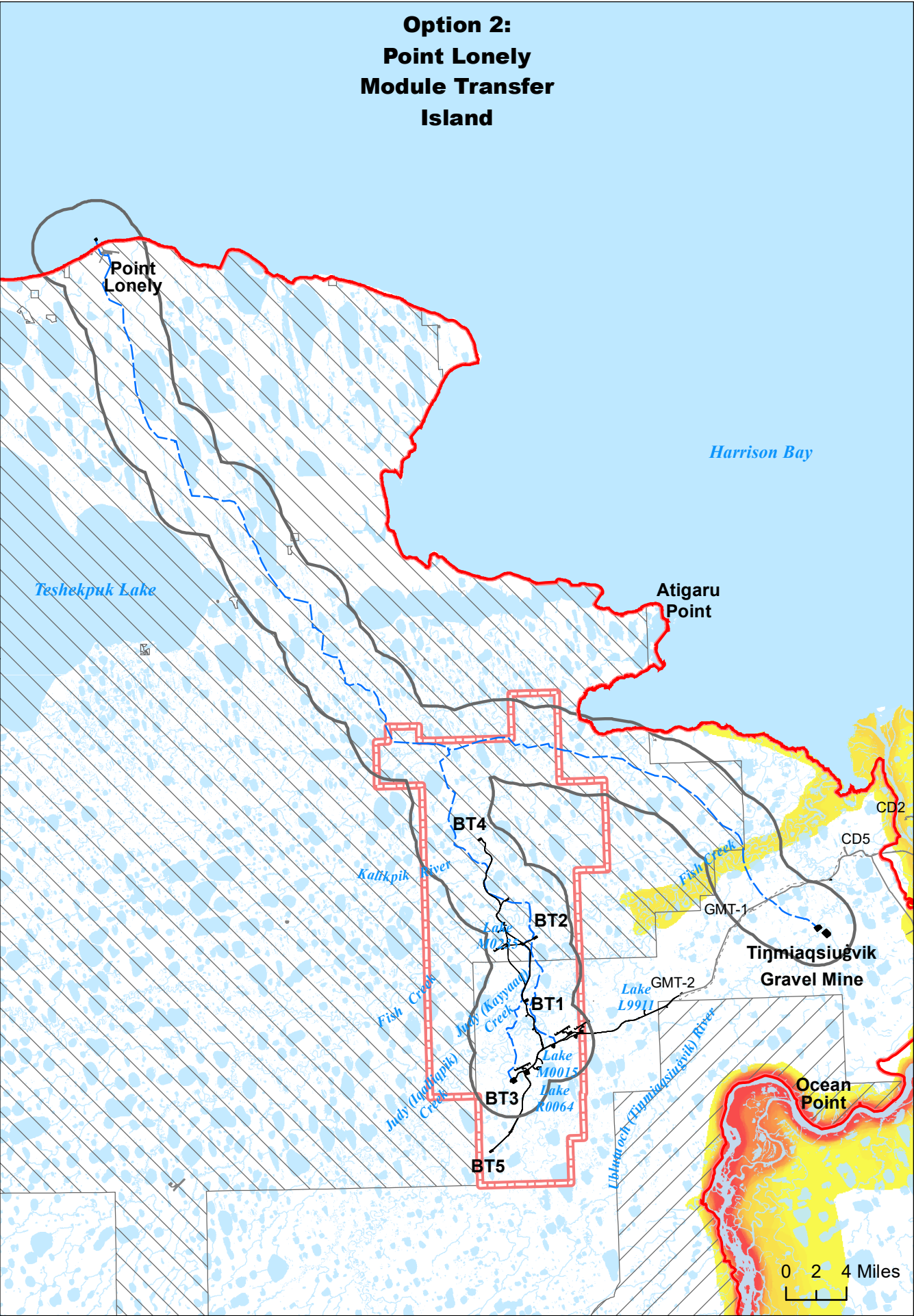
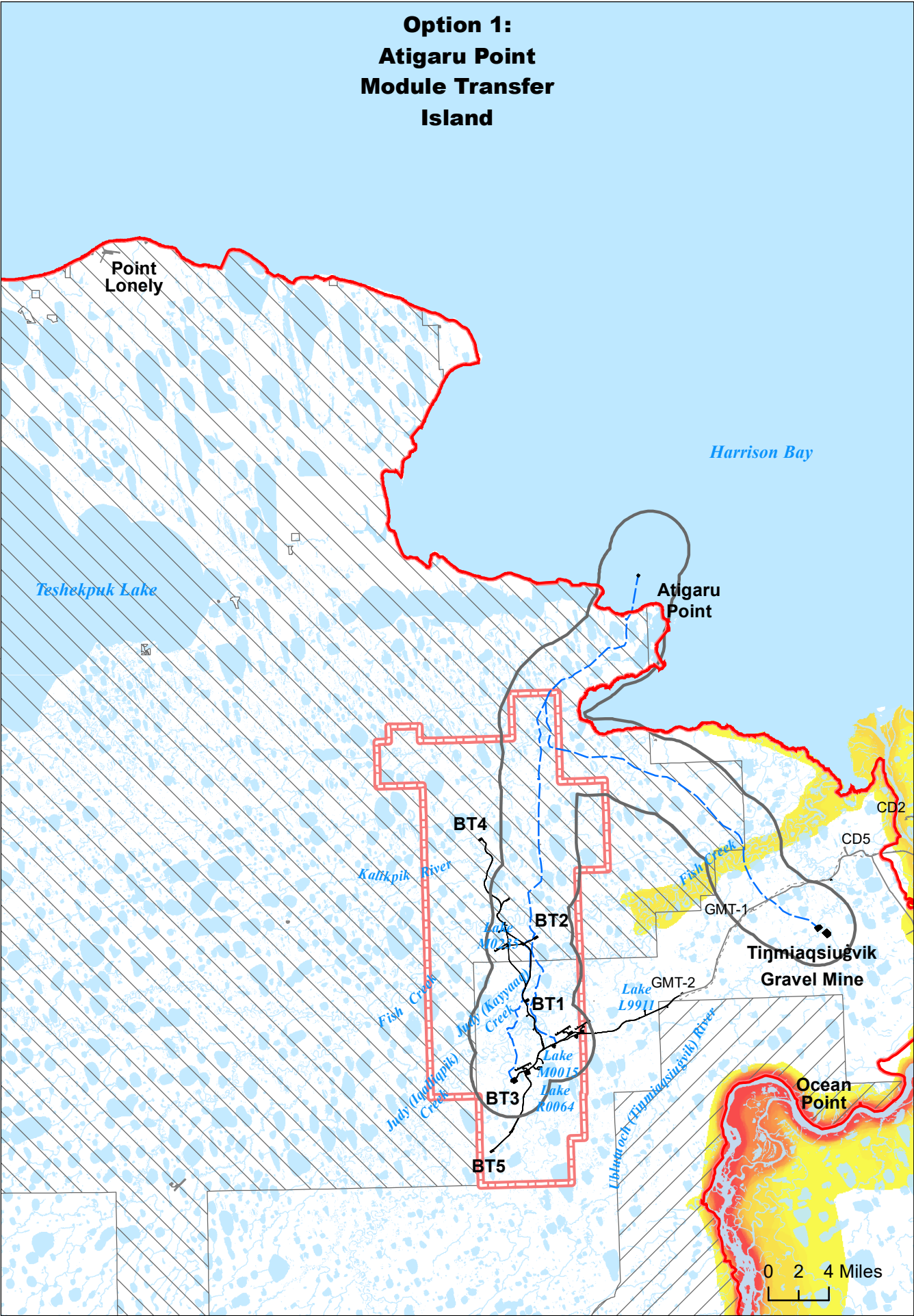
Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.33



Subsistence Data

High Overlapping Subsistence Use Areas Moose, 1995-2006^a

Low

Willow Proposed Development Features

Module Transport Analysis Area

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

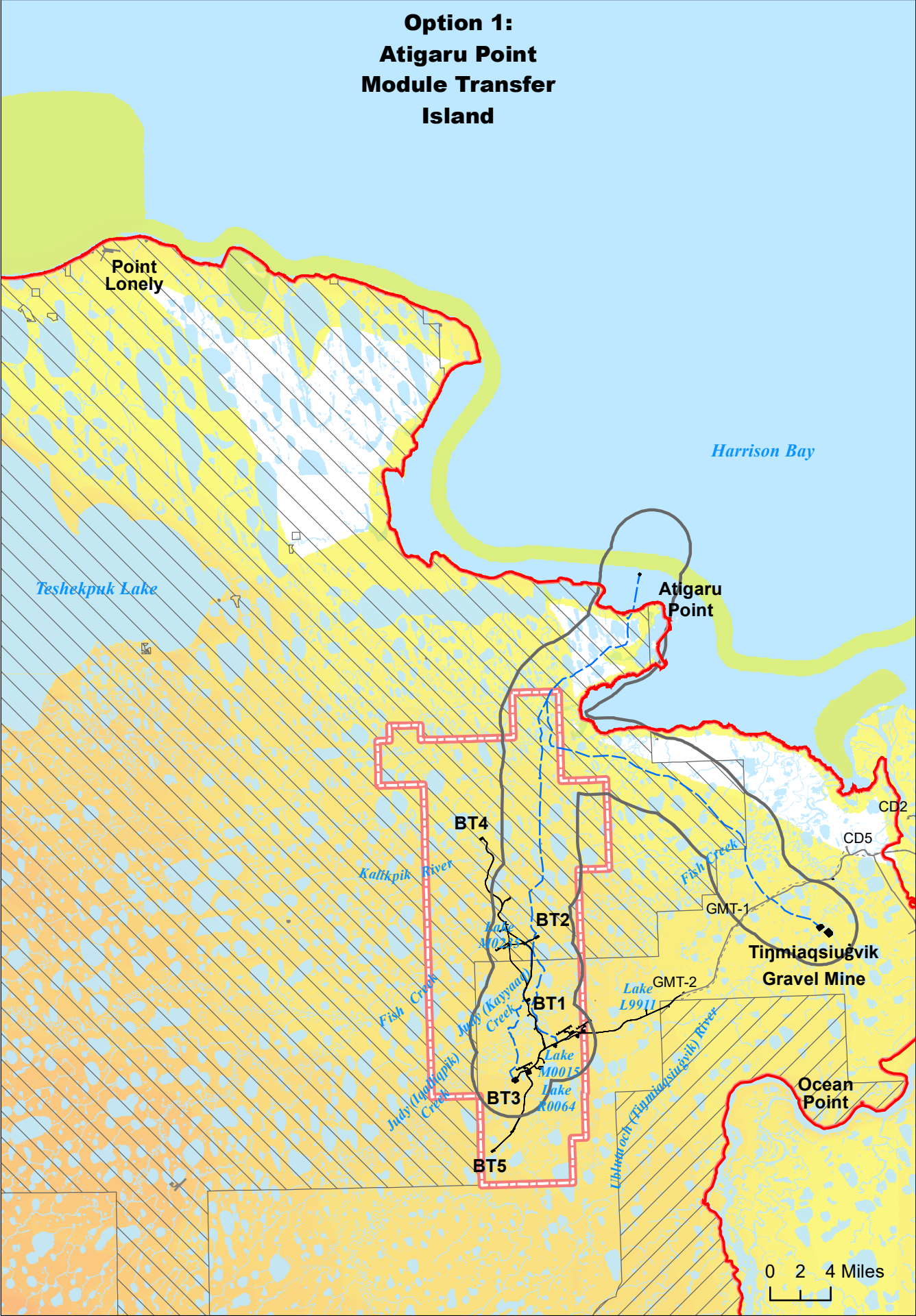
Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.34



Subsistence Data

High Overlapping Subsistence Use Areas
Low All Resources, 1997-2006^a

Willow Proposed Development Features

Module Transport Analysis Area
Ice Road
Ice Pad
Gravel Footprint

Other Infrastructure

Existing Road
Existing Pipeline
Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

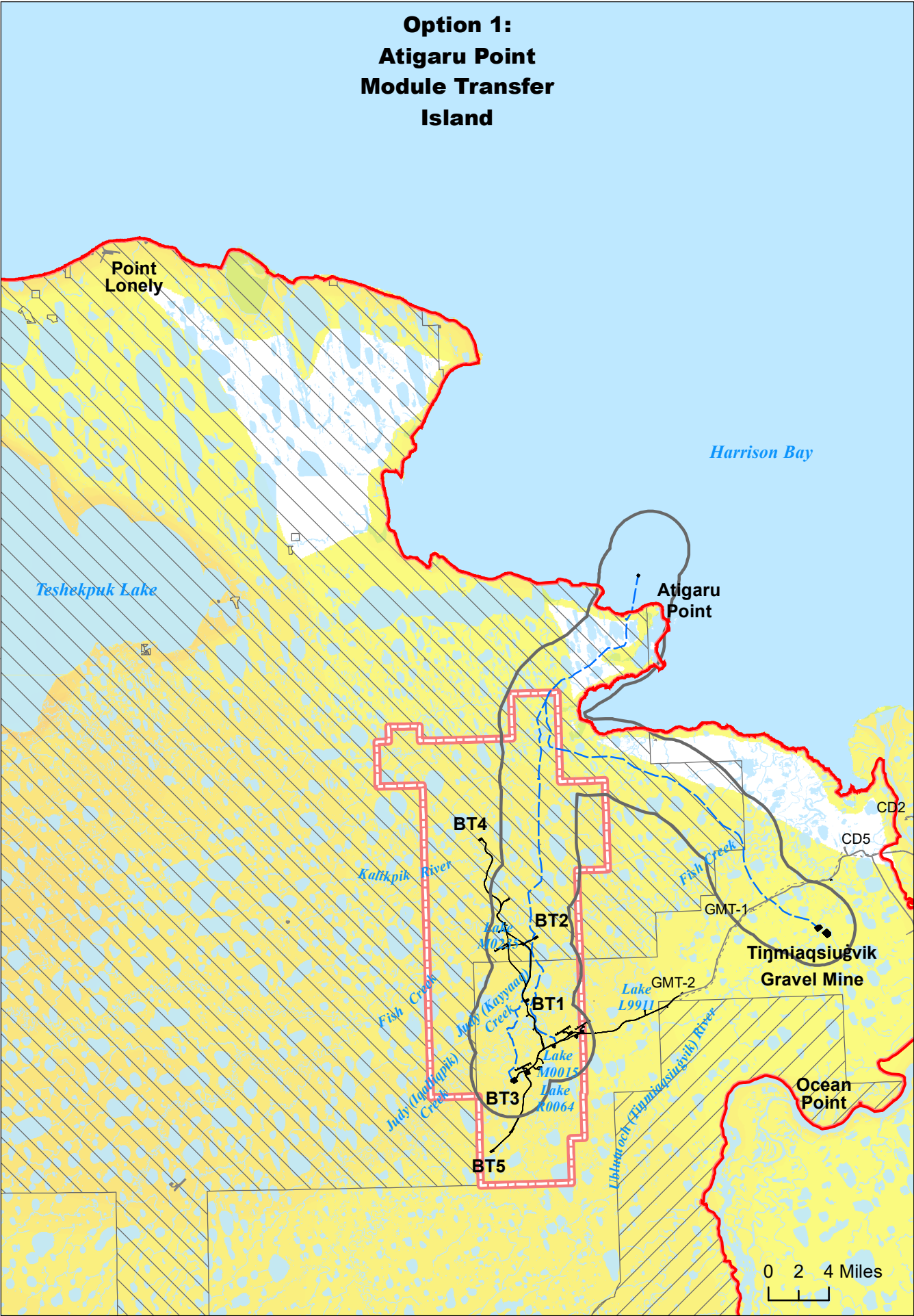
Colville River Special Area
Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.35



Subsistence Data

High Overlapping Subsistence Use Areas Caribou, 1997-2006^a

Low

Willow Proposed Development Features

Module Transport Analysis Area

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

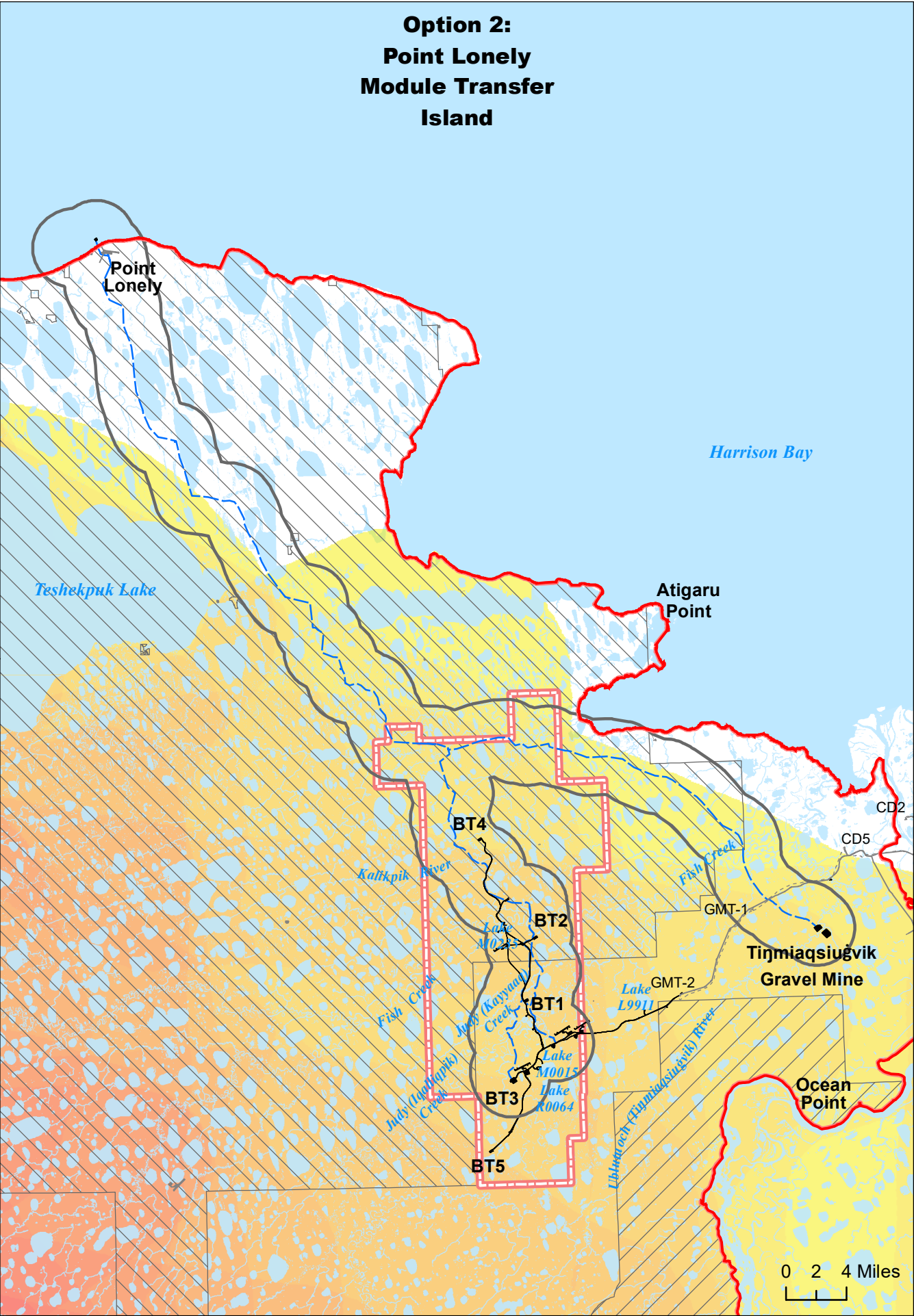
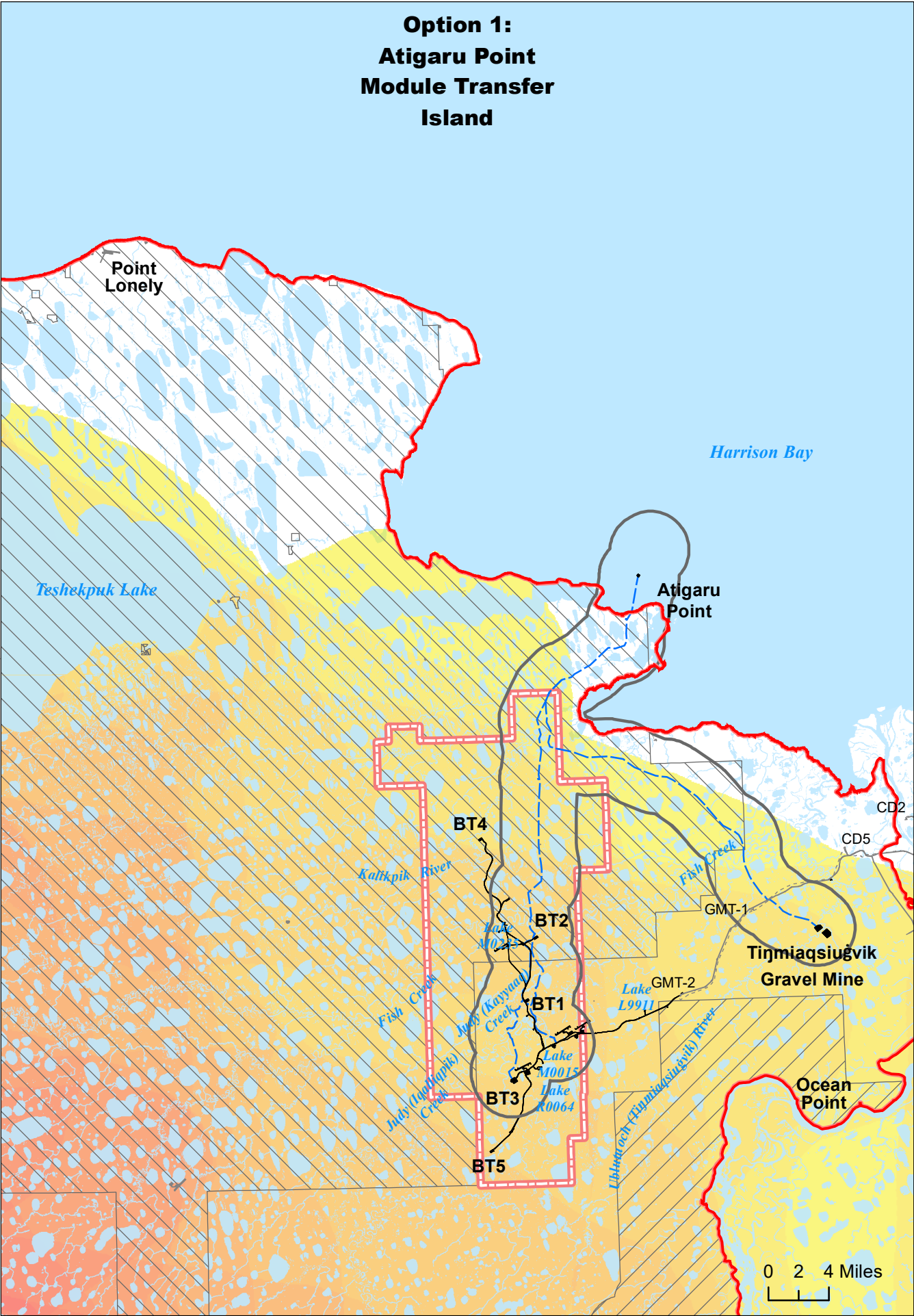
Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.36



Subsistence Data

- High Overlapping Subsistence Use Areas Wolf and Wolverine 1997-2006^a
- Low

Willow Proposed Development Features

- Module Transport Analysis Area
- Ice Road
- Ice Pad
- Gravel Footprint

Other Infrastructure

- Existing Road
- Existing Pipeline
- Existing Infrastructure

Land Designation

- National Petroleum Reserve in Alaska

Oil and Gas Unit

- Bear Tooth Unit

NPR-A Special Areas

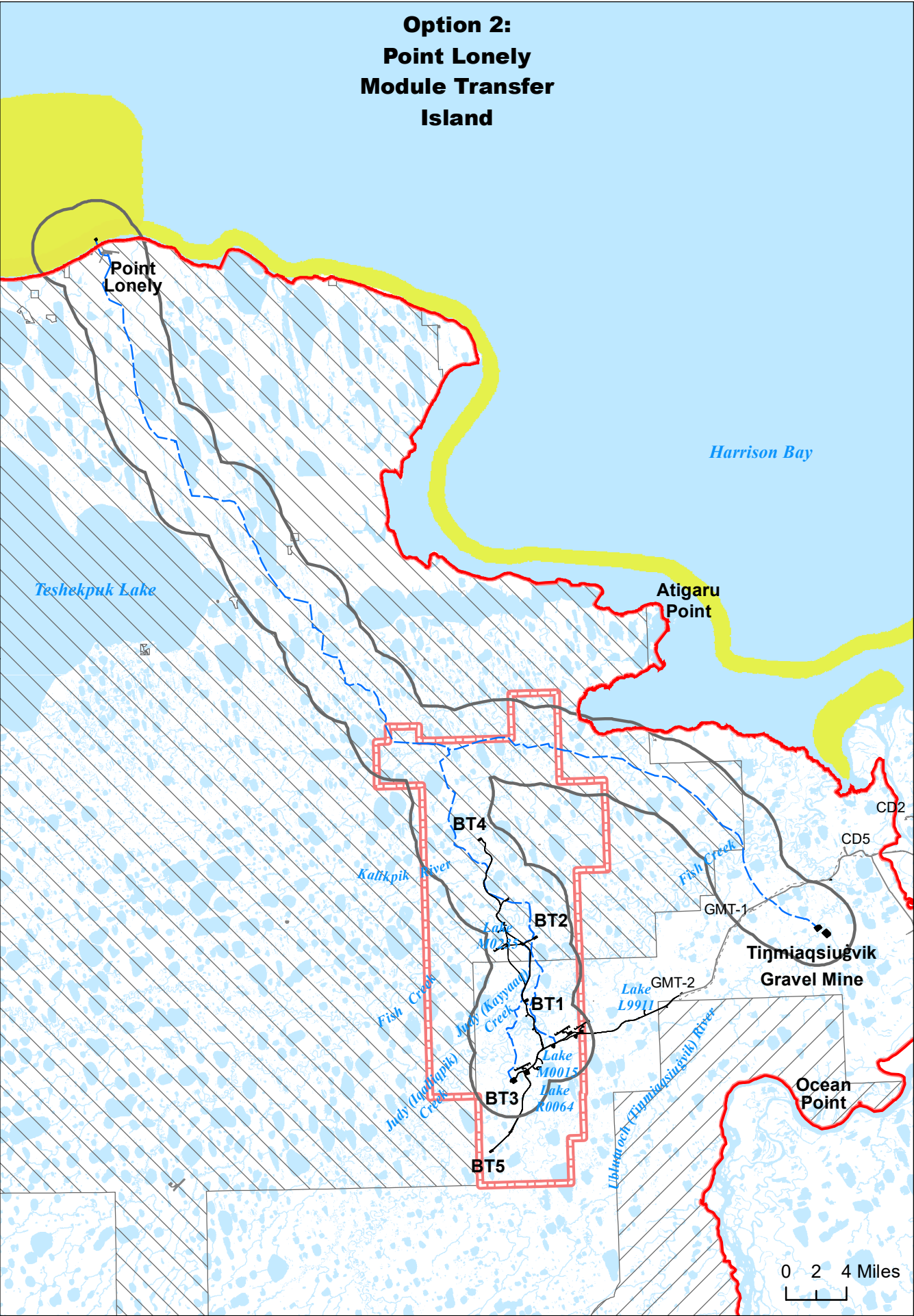
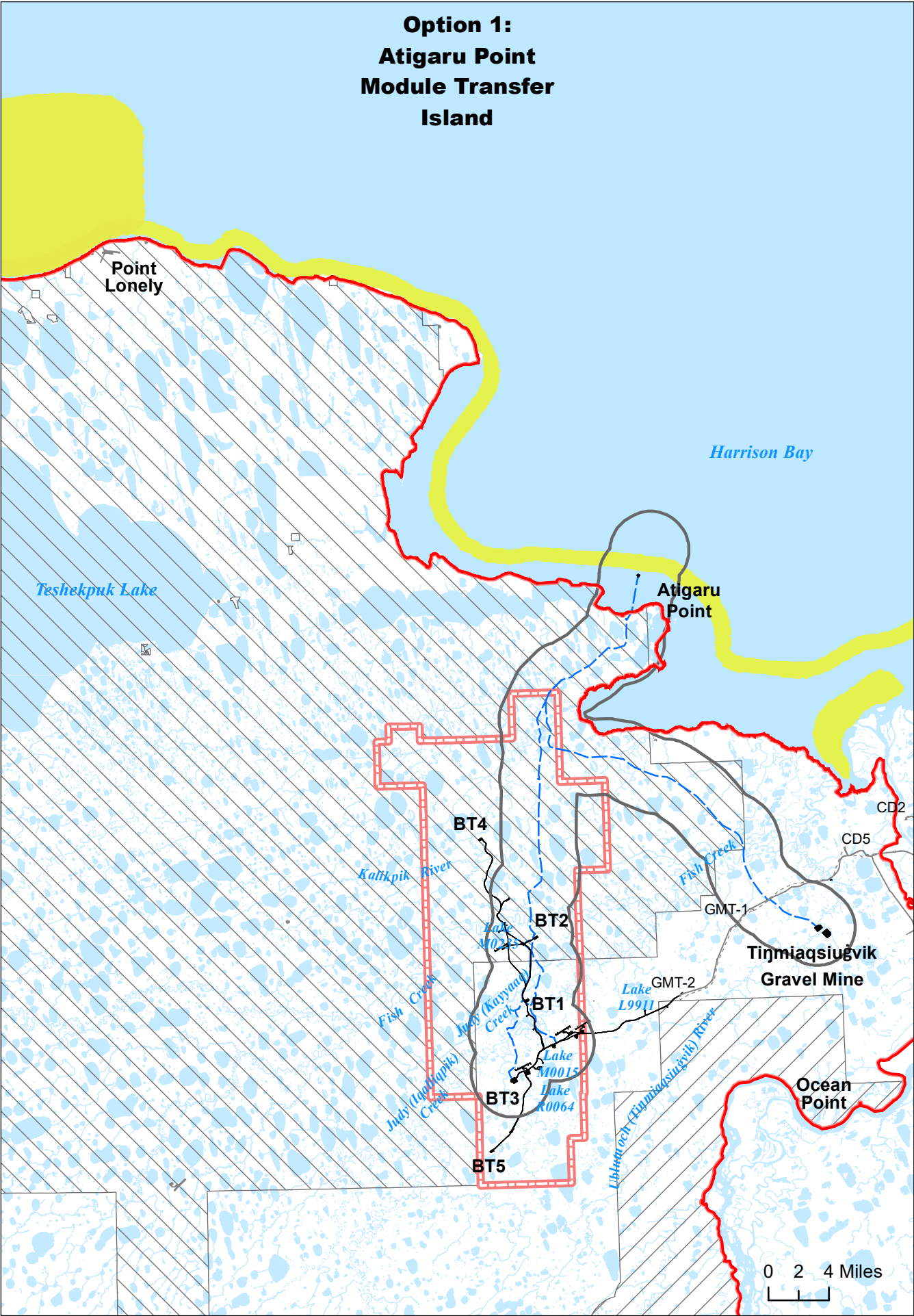
- Colville River Special Area
- Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.37



Subsistence Data

High Overlapping Subsistence Use Areas Bearded and Ringed Seal, 1997-2006^a

Low

Willow Proposed Development Features

Module Transport Analysis Area

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

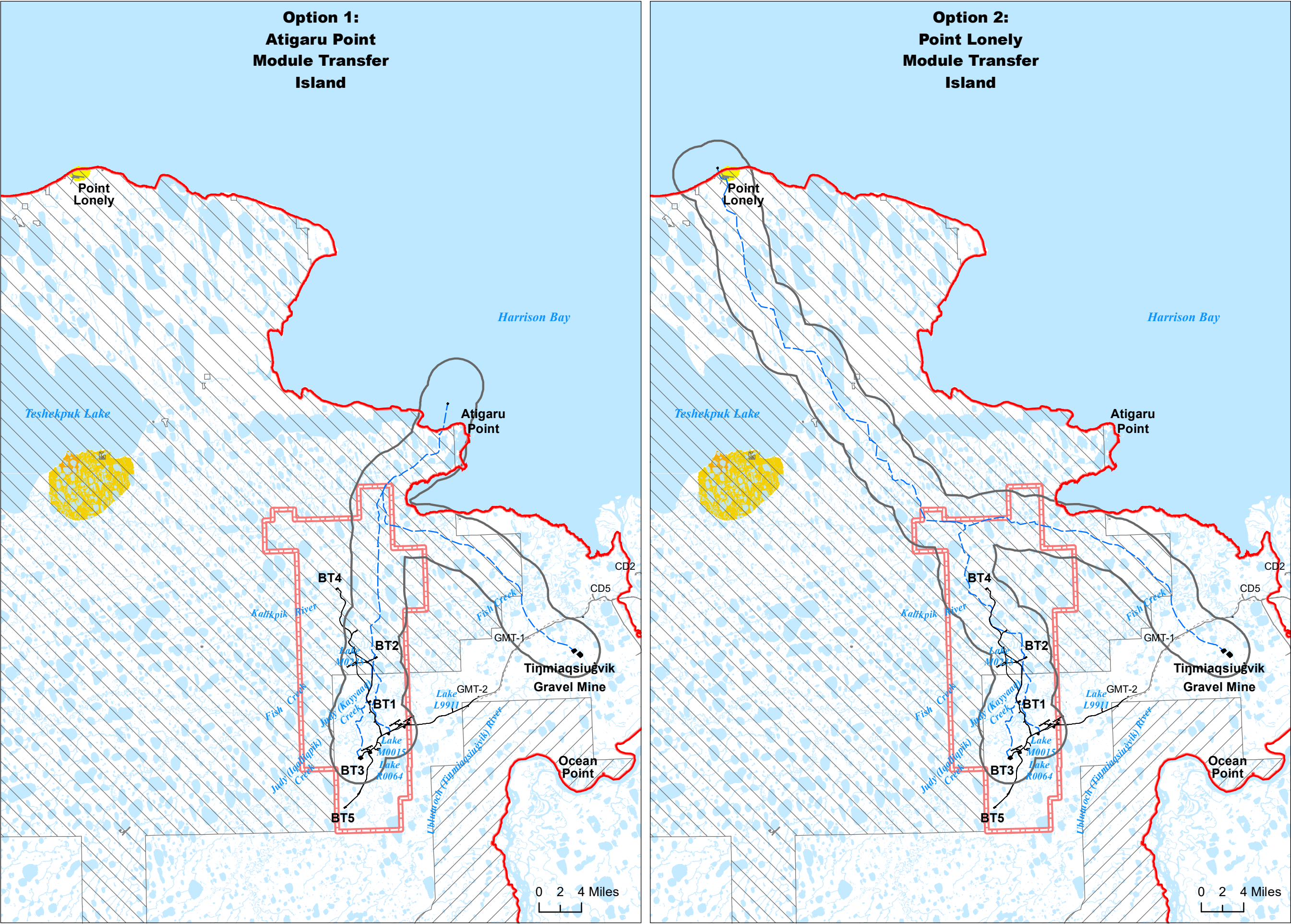
Teshekpuk Lake Special Area

Map prepared by
Stephen R. Braund & Associates

Source
a. SRB&A 2010a

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Figure 3.16.38



Subsistence Data

High Overlapping Subsistence Use Areas Geese, 1997-2006^a

Low

Willow Proposed Development Features

Module Transport Analysis Area

Ice Road

Ice Pad

Gravel Footprint

Other Infrastructure

Existing Road

Existing Pipeline

Existing Infrastructure

Land Designation

National Petroleum Reserve in Alaska

Oil and Gas Unit

Bear Tooth Unit

NPR-A Special Areas

Colville River Special Area

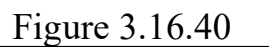
Teshekpuk Lake Special Area

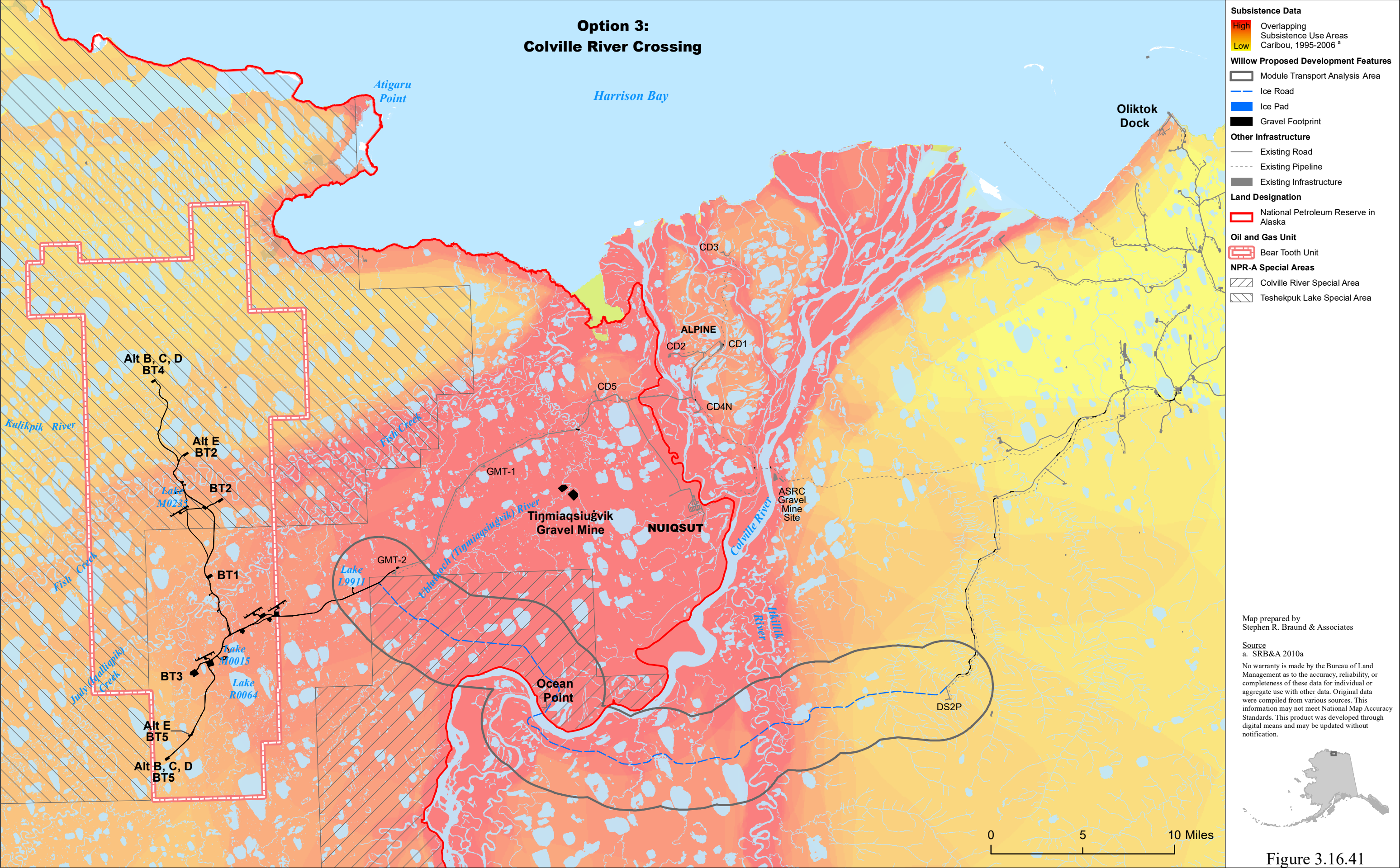
Map prepared by
Stephen R. Braund & Associates

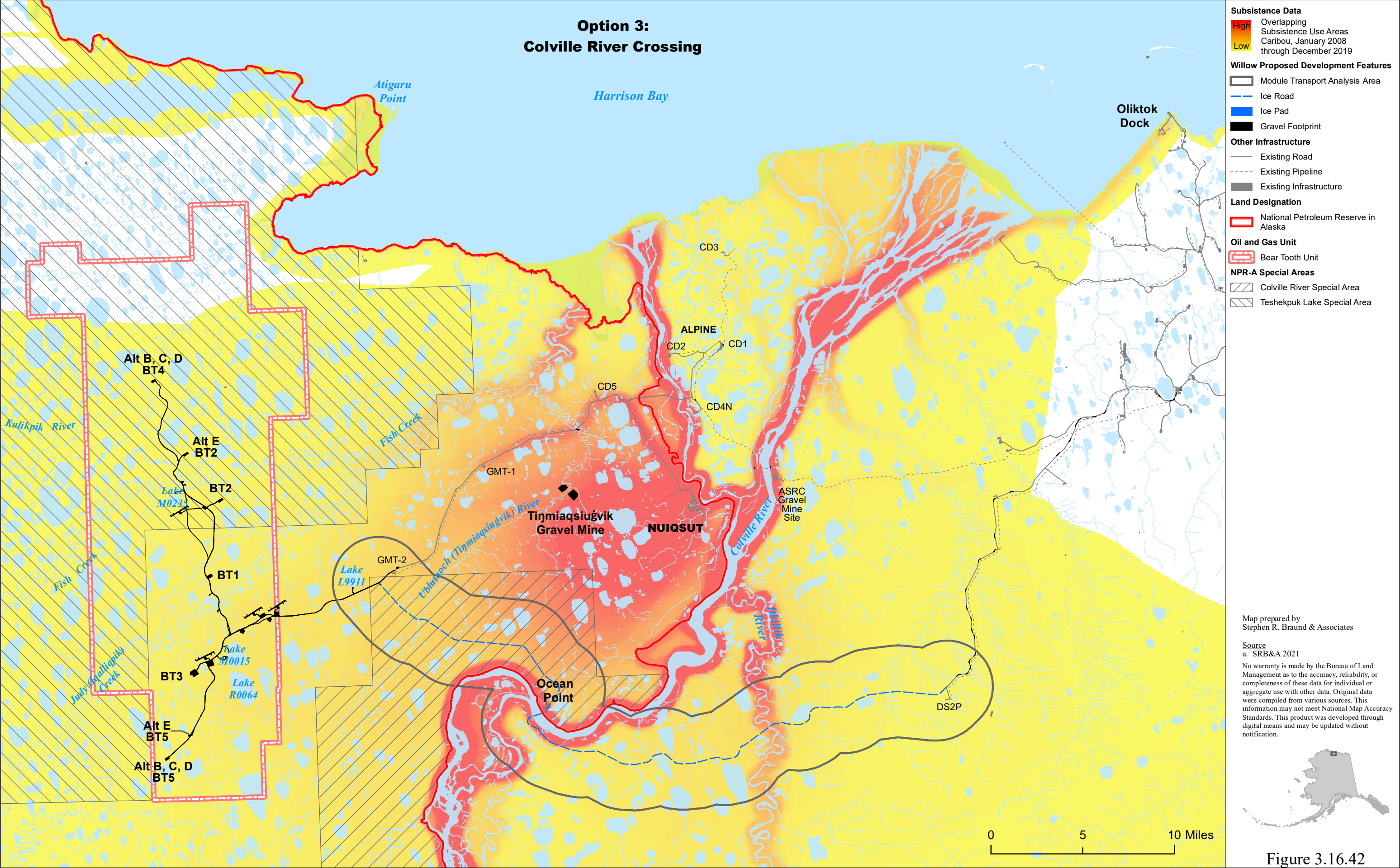
Source
a. SRB&A 2010a

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Figure 3.16.39







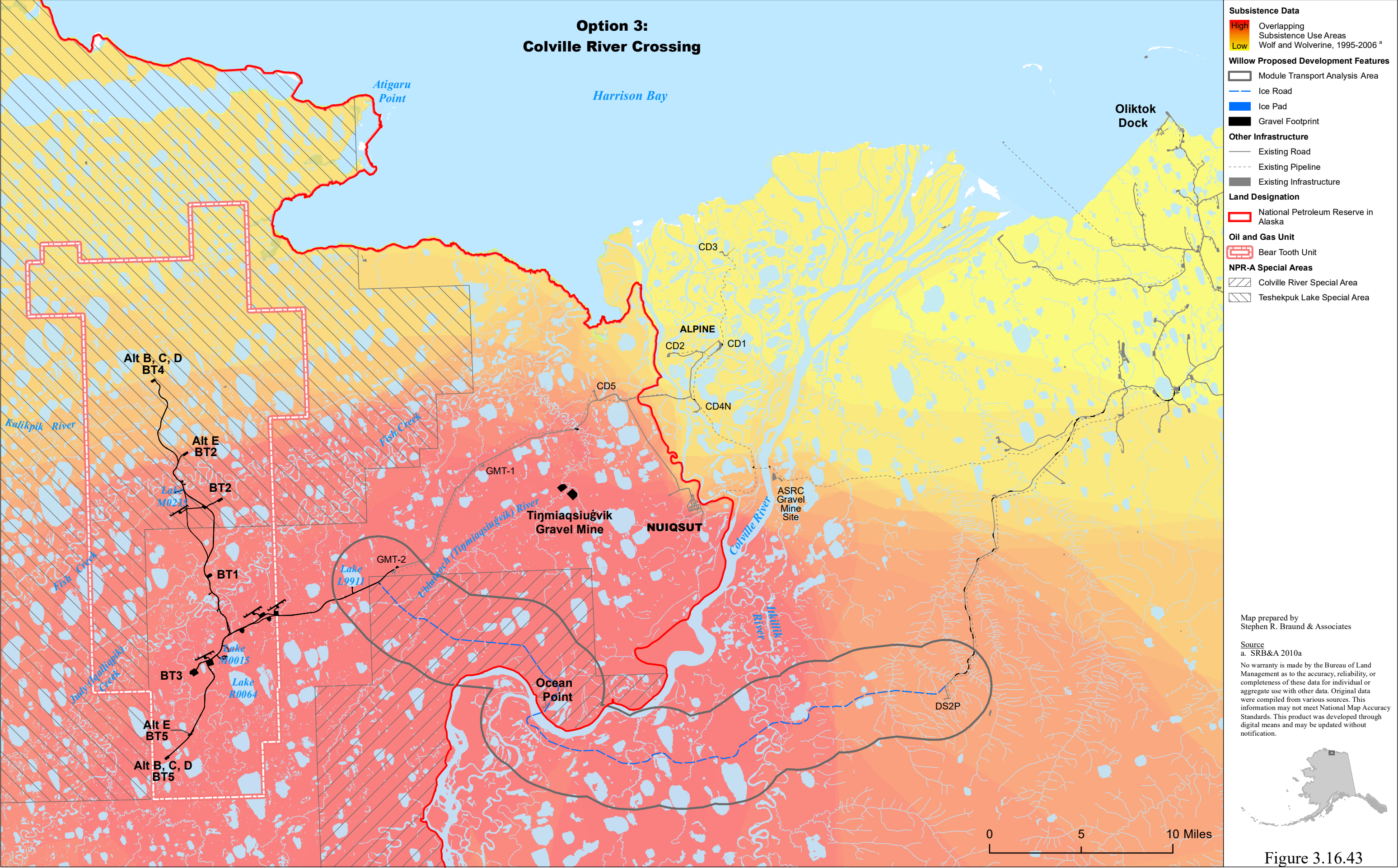
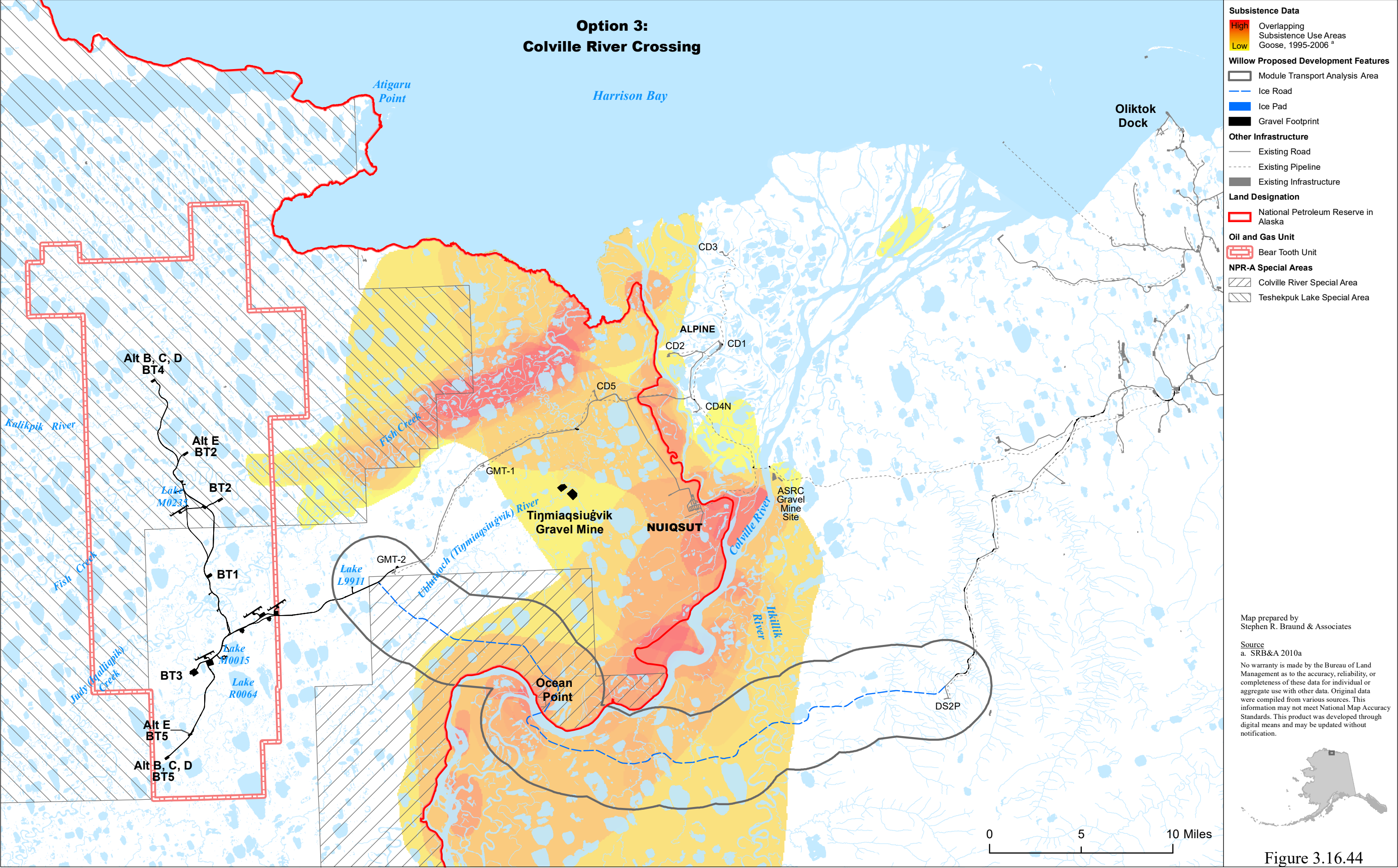
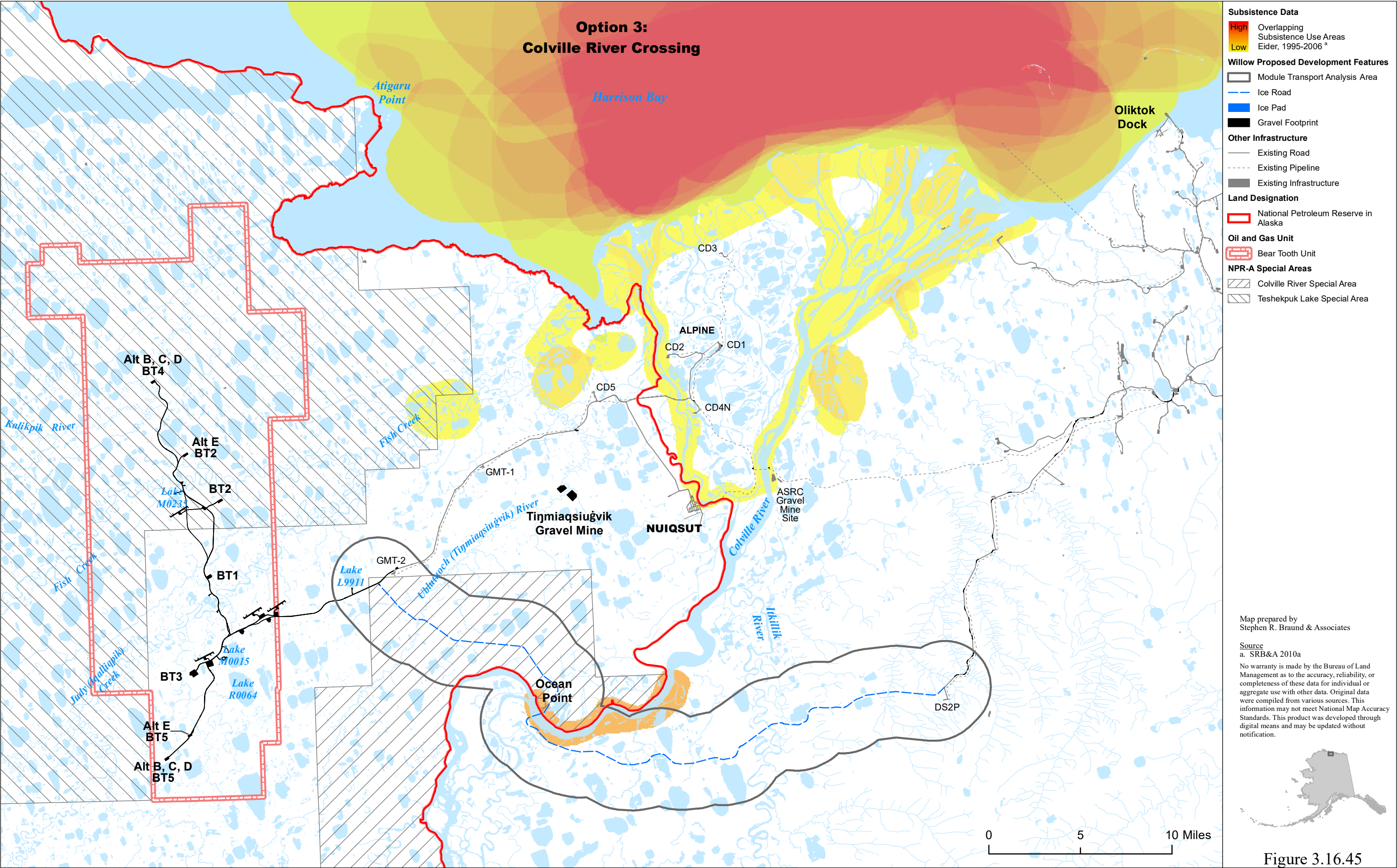
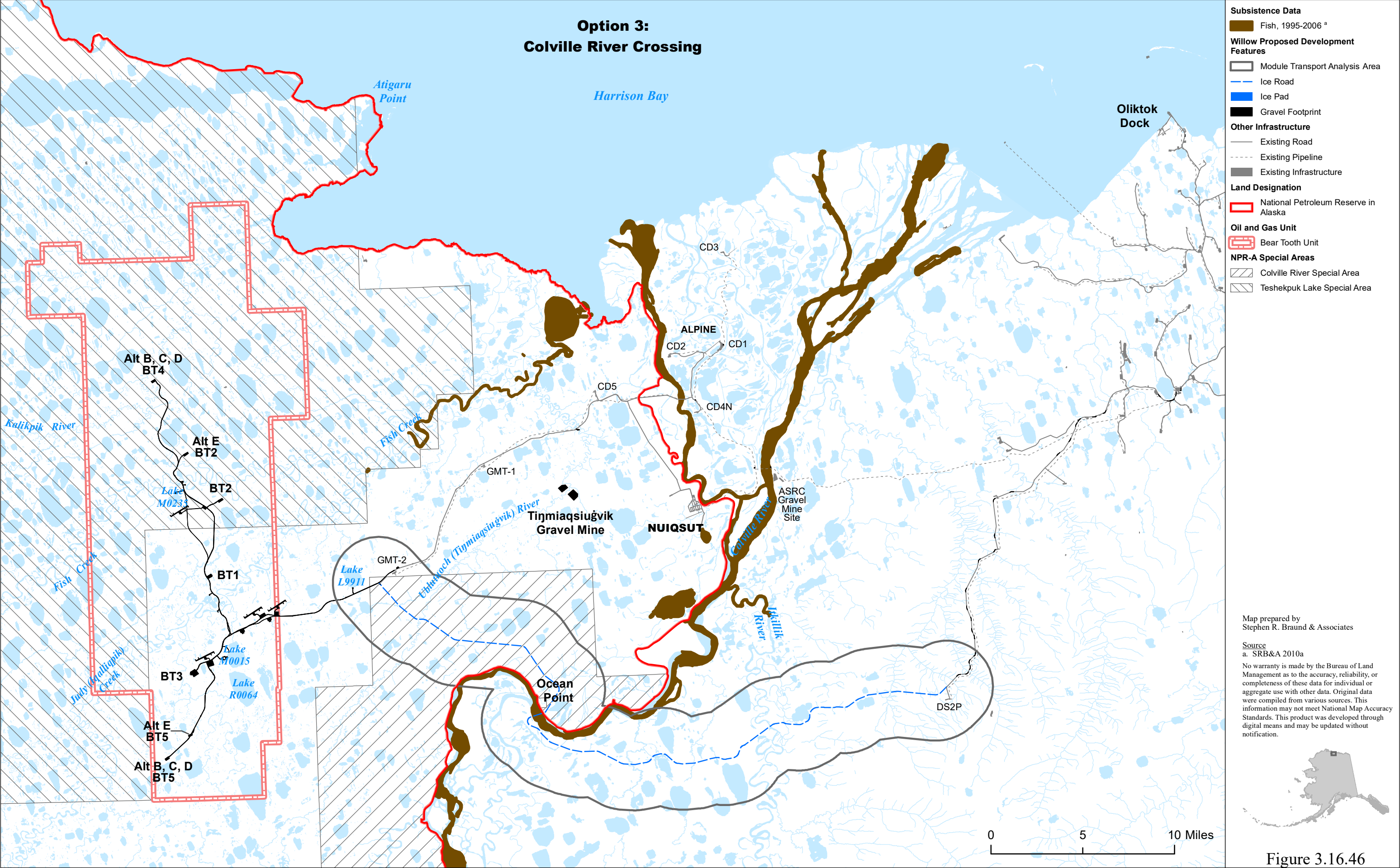
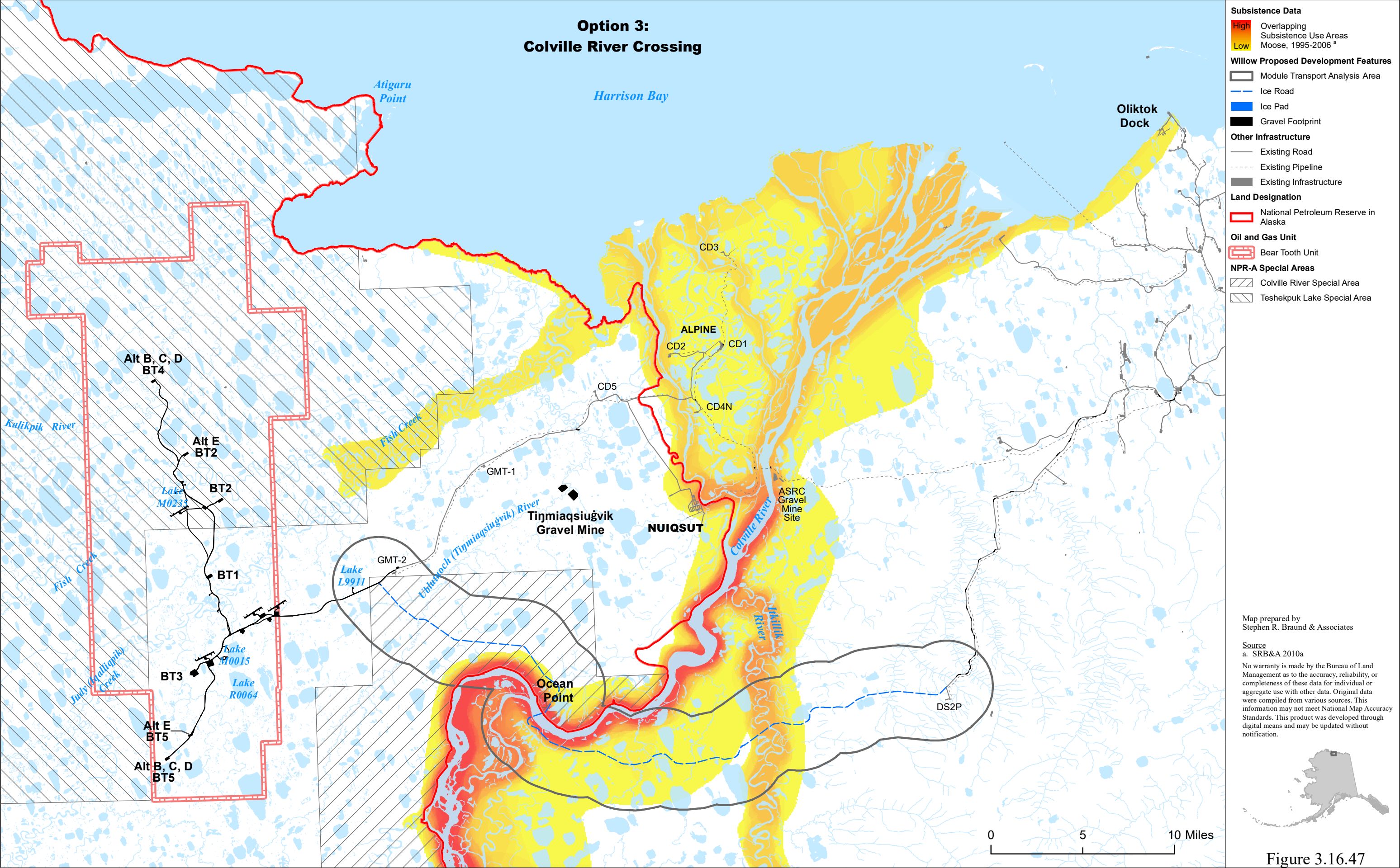


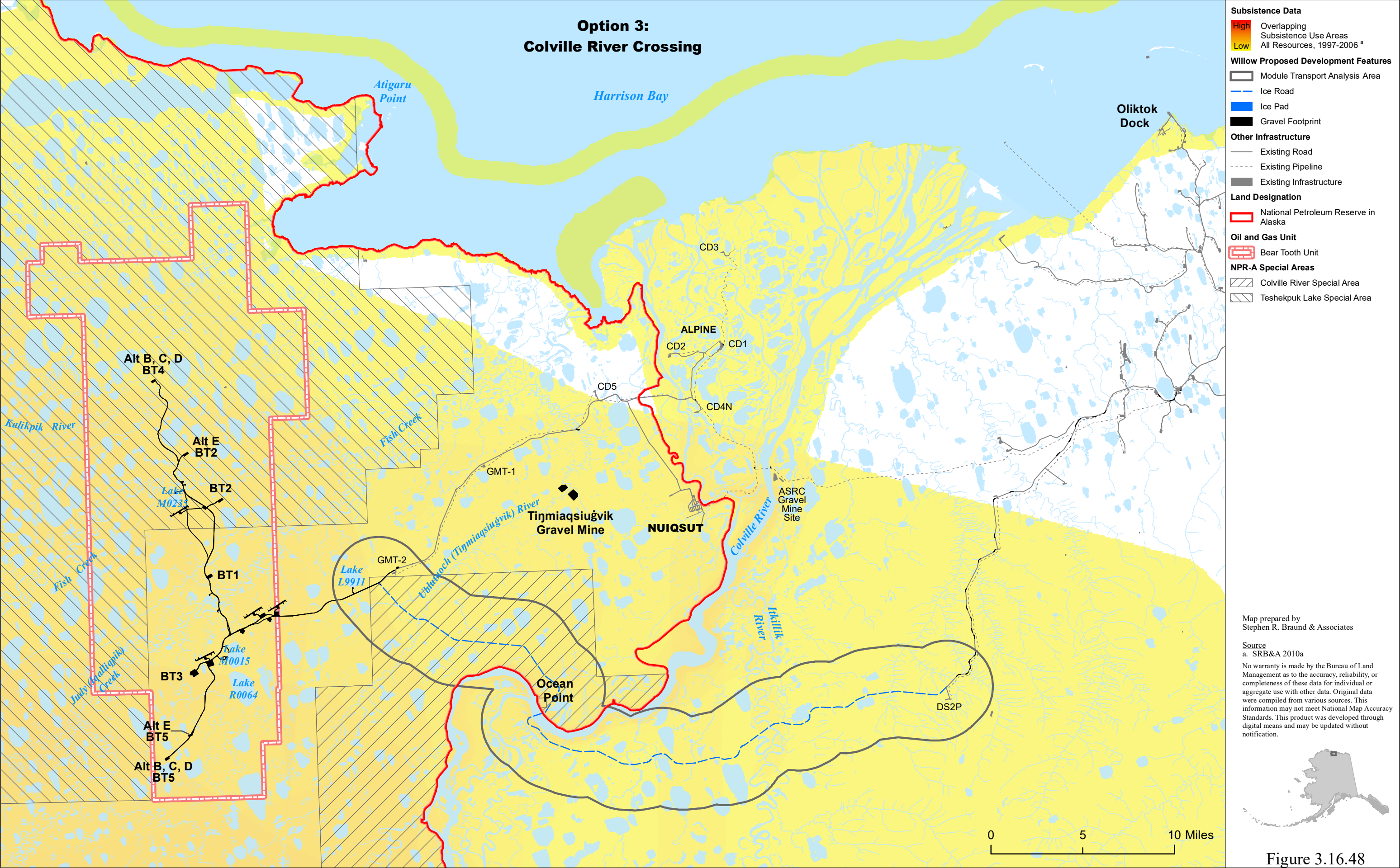
Figure 3.16.43

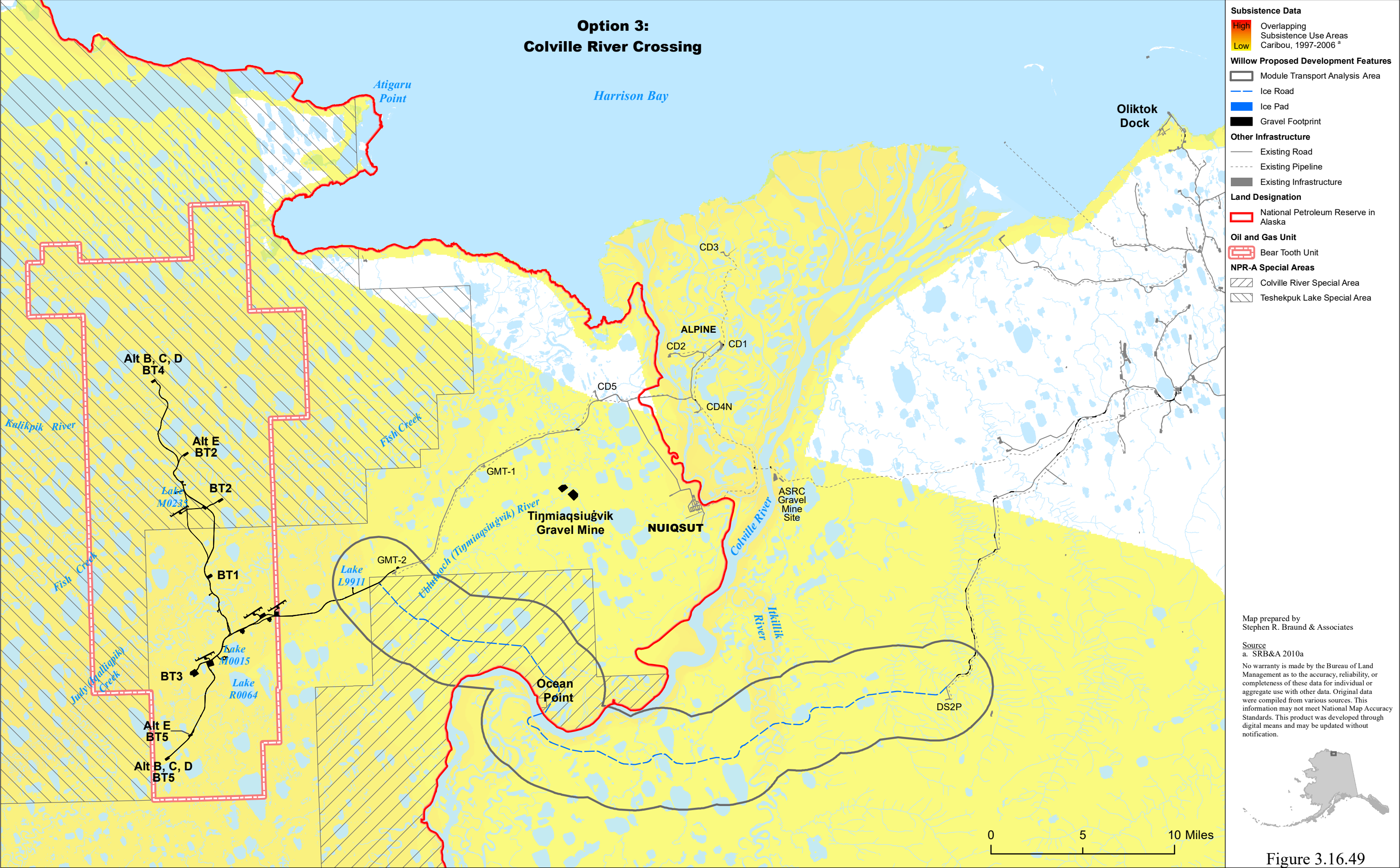












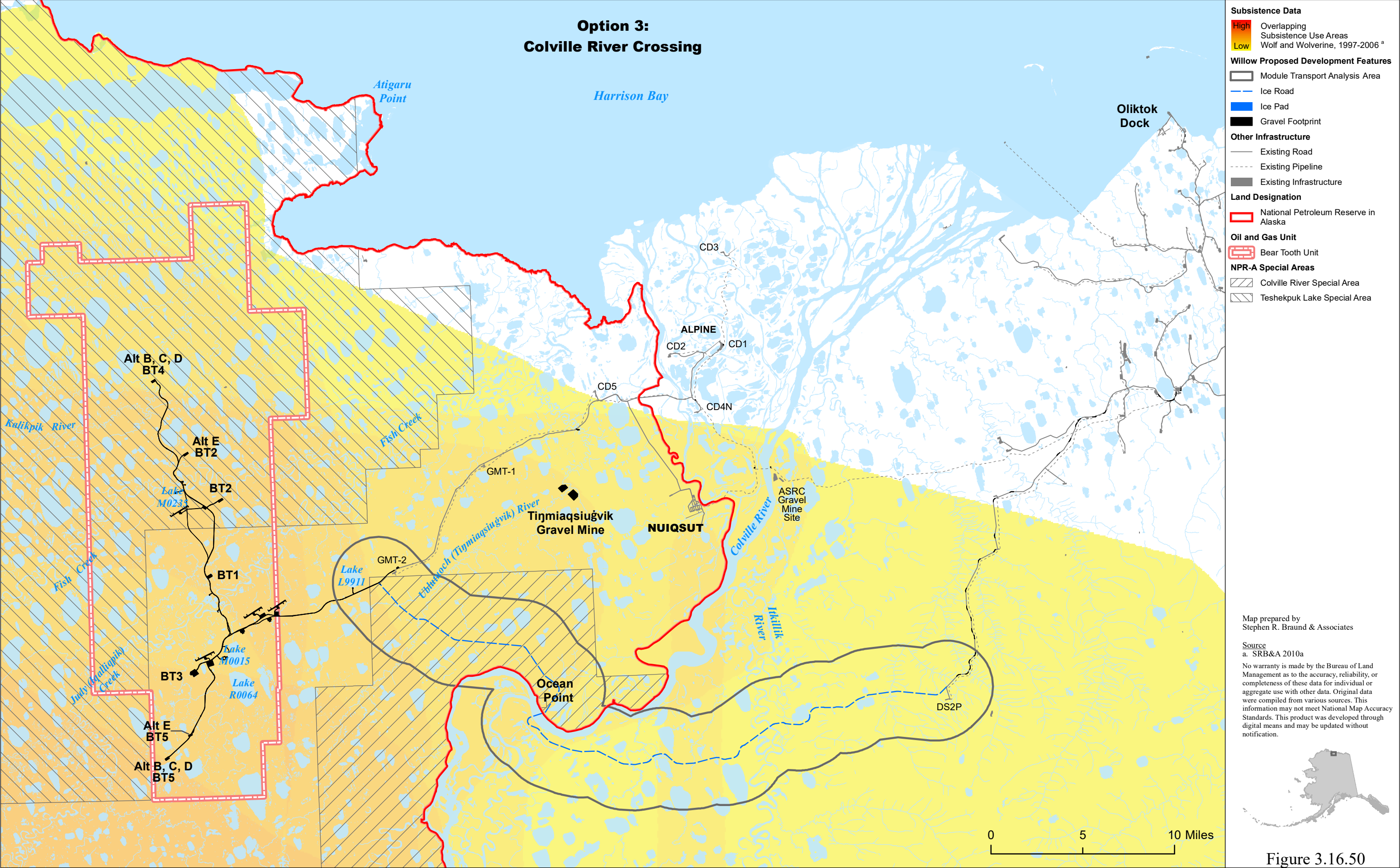


Figure 3.16.50

