

November 2012

FINAL

National Petroleum Reserve-Alaska
Integrated Activity Plan
Environmental Impact Statement

Volume 7: Maps

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



Alaska

The Bureau of Land Management Today

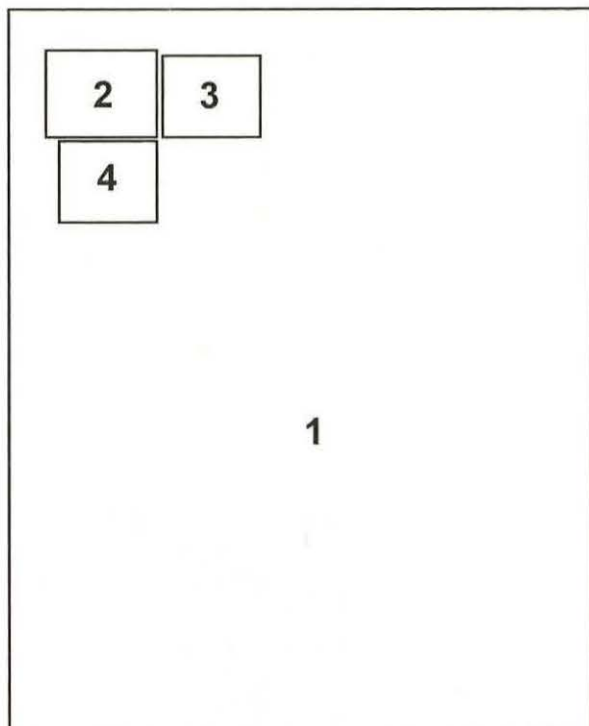
Our Vision

To enhance the quality of life for all citizens through the balanced stewardship of America's public lands and resources.

Our Mission

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

BLM/AK/PL-12/002+1610+AK9300



Cover Photos:

1. Along the Archimedes Ridge in the Utukok River Uplands of the National Petroleum Reserve-Alaska.
© Patrick Endres
2. Winter petroleum exploration, National Petroleum Reserve-Alaska. Photo by NSSI
3. Polar Bear, North Slope, Alaska.
4. Two newly born caribou calves in the Utukok River Uplands of the National Petroleum Reserve-Alaska.
© Patrick Endres

National Petroleum Reserve-Alaska

FINAL

Integrated Activity Plan/ Environmental Impact Statement

Volume 7 Maps

Prepared by:

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

In cooperation with:

North Slope Borough
U.S. Bureau of Ocean Energy Management
U.S. Fish and Wildlife Service

November 2012

How the IAP/EIS is Organized

VOLUME 1

- Chapter 1** – Introduction: Summarizes the purpose of and need for this IAP/EIS and decisions to be made.
- Chapter 2** – Alternatives: Describes and compares proposed management alternatives.
- Chapter 3** – Affected Environment: Presents existing natural and socioeconomic resources in the NPR-A and trends, including those associated with climate change.

VOLUME 2

- Chapter 4** – Environmental Consequences (sections 4.1 – 4.4): Provides the assumptions upon which the impact analysis rests and evaluates impacts of Alternatives A and B-1 on resources and uses in the NPR-A relevant to making a decision among the alternatives.

VOLUME 3

- Chapter 4** – Environmental Consequences continued (sections 4.5 – 4.7): Evaluates impacts of Alternatives B-2 (preferred alternative), C, and D on resources and uses in the NPR-A relevant to making a decision among the alternatives.

VOLUME 4

- Chapter 4** – Environmental Consequences continued (sections 4.8 – 4.13): Evaluates the cumulative impacts on resources and uses in the NPR-A and other effects relevant to making a decision among the alternatives.

VOLUME 5

- Chapter 5** – Consultation and Coordination: Describes public and government (including tribal) consultation undertaken for this plan and the development of alternatives and lists the plan's preparers.
- Chapter 6** – Comments and Responses: Presents public comments on the Draft IAP/EIS and responses to the comments.

VOLUME 6

- Appendix A:** ANILCA Section 810 Analysis of Subsistence Impacts
- Appendix B:** Federal, State, and Local Permits and/or Approvals for Oil and Gas Exploration, Development, and Production Activities
- Appendix C:** NPR-A Climate Change Analysis: An Assessment of Climate Change Variables in the National Petroleum Reserve in Alaska
- Appendix D:** Essential Fish Habitat
- Appendix E:** Common, Scientific and Inupiaq Names of Species Listed in the IAP/EIS
- Appendix F:** BLM Sensitive Species List for Alaska
- Appendix G:** Information, Models, and the Assumptions Used to Analyze the Effects of Oil Spills
- Appendix H:** Air Quality Related Values and Dispersion Modeling Results
- Glossary and Bibliography**

VOLUME 7

- Maps**

Contents of Volume 7

MAP	TITLE
1-1	Land Status
2-1	Alternative A: Land Allocations
2-1 K	Alternative A: K Stipulations
2-2-1	Alternative B-1: Land Allocations
2-2-1 K	Alternative B-1: K Stipulations
2-2-2	Preferred Alternative B-2: Land Allocations
2-2-2 K	Preferred Alternative B-2: K Stipulations
2-3	Alternative C: Land Allocations
2-3 K	Alternative C: K Stipulations
2-4	Alternative D: Land Allocations
2-4 K	Alternative D: K Stipulations
2-5	Visual Resource Management (VRM) - Management Classes
3.2.4-1	Major Rivers, Hydrologic Units and Physiographic Provinces
3.2.5-1	Bedrock Geology
3.2.5-2	Mineral Terranes & Alaska Resource Data File (ARDF) Locations
3.2.6-1	Major Sedimentary Basins and Tectonic Features
3.2.6-2	Oil & Gas Fields and Wells of the North Slope
3.2.8-1	Soils
3.2.9-1	Surficial Geology
3.2.10-1	Lake Depth
3.2.11-1	Existing Hazards
3.3.1-1	Vegetation
3.3.4-1	Fish Habitat Units
3.3.4-2	Anadromous Waters
3.3.5-1	Glaucous gull Onshore Density
3.3.5-2	Sabine's gull Onshore Density
3.3.5-3	Arctic Tern Onshore Density
3.3.5-4	Important Bird Areas
3.3.5-5	Red-throated Loon Onshore Density
3.3.5-6	Pacific Loon Onshore Density
3.3.5-7	Tundra Swan Onshore Density
3.3.5-8	Ikpikpuk River Delta Lesser Snow Goose Colony
3.3.5-9	Molting Goose and Black Brant Distribution in Surveyed Lakes 2006-2010
3.3.5-10	Black Brant Locations Pre-molt and Molt
3.3.5-11	Brant Distribution in Surveyed Lakes - 2007
3.3.5-12	Brant Distribution in Surveyed Lakes - 2008
3.3.5-13	Greater White-fronted Goose Onshore Density
3.3.5-14	Ikpikpuk River Delta Snow goose colonies
3.3.5-15	Lesser Snow Goose Brood-rearing Survey
3.3.5-16	Canada Goose Onshore Density
3.3.5-17	Northern Pintail Onshore Density
3.3.5-18	Long-tailed duck Onshore Density
3.3.5-19	King Eider Onshore Density and Selected Locations of Satellite Transmitter Equipped Individuals
3.3.5-20	Peregrine Falcon Nesting/Activity Sites

MAP	TITLE
3.3.6-1	Game Management Units
3.3.6-2	Teshkepuk Lake Caribou Herd - Seasonal Range
3.3.6-3	Central Arctic Caribou Seasonal Ranges
3.3.6-4	Western Arctic Caribou Herd Range
3.3.6-5	Teshkepuk Lake Caribou Herd - Calving Areas
3.3.6-6	Teshkepuk Lake Caribou Herd - Mosquito Relief Areas
3.3.6-7	Teshkepuk Lake Caribou Herd - Fly Relief Areas
3.3.6-8	Western Arctic Caribou Herd - Calving Ground
3.3.6-9	Western Arctic Caribou Herd - Summer Movements
3.3.6-10	Muskox Predicted Winter Habitat
3.3.6-11	Muskox Predicted Summer Habitat
3.3.6-12	Moose Density and Historical Wolverine Sightings and Harvest Locations
3.3.6-13	Estimated Grizzly Bear Density (based on elevation range)
3.3.8-1	Spectacled Eider Onshore Density
3.3.8-2	Steller's Eider Onshore Locations
3.3.8-3	Steller's Eider Location within the Barrow Triangle Survey Area
3.3.8-4	Yellow-billed Loon Onshore Density
3.3.8-5	Golden Eagle Nesting/Activity Sites
3.3.8-6	Polar Bear - Critical Habitat & Confirmed Dens
3.3.8-7	Pacific Walrus Summer Range, Haulout & Carcass Locations
3.3.9-1	Special Areas
3.4.1-1	Areas Currently Under Permit
3.4.3-1	Anaktuvuk Pass Subsistence Use Area
3.4.3-2	Subsistence Use Areas - Atqasuk
3.4.3-3	Atqasuk Partial Subsistence Use Areas for Non-Marine Resources, 2003.
3.4.3-4	North Slope Borough Subsistence Cabins and Fixed Campsites & Barrow Subsistence Use Areas for Whale, Moose and Caribou
3.4.3-5	Barrow Subsistence Use Areas for Fish and Birds
3.4.3-6	Nuiqsut Subsistence Use Area
3.4.3-7	Subsistence Use Areas - Wainwright
3.4.3-8	Point Lay Subsistence Use Area
3.4.7-1	Eligible Wild & Scenic Rivers
3.4.8-1	Wilderness Characteristics Inventory Areas
3.4.9-1	Visual Resource Management (VRM)
D-1	Essential Fish Habitat