



**DRAFT ENVIRONMENTAL BASELINE STUDIES  
2006 STUDY PLANS**

**CHAPTER 9.  
TERRESTRIAL WILDLIFE AND HABITAT**

**JULY 2006**

# TABLE OF CONTENTS

TABLE OF CONTENTS ..... 9-i

LIST OF TABLES (attached)..... 9-ii

LIST OF FIGURES (attached)..... 9-ii

9. TERRESTRIAL WILDLIFE AND HABITAT ..... 9-1

    9.1 Mine Studies ..... 9-1

        Mammals ..... 9-1

        Raptors..... 9-1

        Waterbirds ..... 9-2

        Breeding Birds ..... 9-2

        Wildlife Habitat Mapping..... 9-2

        Rare-Plant Occurrence Potential..... 9-2

    9.2 Transportation Corridor Studies ..... 9-2

        Mammals ..... 9-2

        Raptors..... 9-3

        Waterbirds ..... 9-3

        Breeding Birds ..... 9-3

        Wildlife Habitat Mapping..... 9-3

        Rare-Plant Occurrence Potential..... 9-4

## LIST OF TABLES (attached)

Table 9-1, Study Summary for Wildlife, 2004-2006

## LIST OF FIGURES (attached)

Figure 9.1-1, 2004, 2005, and 2006 Survey Transects for Large Mammals in the Mine Study Area

Figure 9.1-2, 2004 and 2005 Survey Areas for Raptors in the Mine Study Area and Transportation Corridor

Figure 9.1-3, 2004 and 2005 Survey Areas for Waterbirds, Mine and Transportation Corridor

Figure 9.1-4, 2004 and 2005 Survey Areas for Breeding Birds in the Mine Study Area

Figure 9.1-5, 2004 and 2005 Survey Areas and 2006 Mapping Area for Wildlife Habitats in the Mine Study Area

Figure 9.2-1, 2004 and 2005 Survey Areas for Large Mammals in the Mine Study Area, along the Transportation Corridor, and in Iliamna Lake

Figure 9.2-2, 2004 and 2005 Survey Areas for Breeding Birds in the Transportation Corridor

Figure 9.2-3, 2004 and 2005 Survey Areas and 2006 Mapping Area for Wildlife Habitats in the Transportation Corridor

## 9. TERRESTRIAL WILDLIFE AND HABITAT

### 9.1 Mine Studies

Details of the studies of terrestrial wildlife and habitat in the mine study area for 2006 are as described in Chapter 9.1 of the 2005 study plan, except as discussed below. Table 9-1 summarizes tasks for the wildlife studies in 2004 through 2006.

#### Mammals

Details of the field methods for the mammal surveys are presented in Chapter 9.1.2 of the 2005 study plan. The survey area for mammals in 2006 is illustrated in Figure 9.1-1. The study area is the same as in 2004 and 2005.

Mammal surveys are designed to supplement existing information from previously published and unpublished work in the region and to compile and analyze telemetry data previously collected by management agencies for use in impact analyses. Field survey data will provide site-specific information on large mammal species (primarily caribou and brown bears) to supplement the information gained from the literature review. Specific objectives for 2006 are the same as the objectives described in Section 9.1.1.1 of the 2005 study plan, with the following changes or additions:

- Map the distribution and quantify the abundance and density of large mammals in the mine area during important seasonal periods for caribou and brown bears, using aerial transect surveys in the mine area during early and late May, late June, and July 2006;
- In cooperation with state and federal agencies, complete retrospective analyses of the extensive radio telemetry database for the Mulchatna Caribou Herd to provide a comprehensive assessment of the use of the mine area by caribou;
- Cooperate with state and federal agencies to obtain existing population and harvest survey data for moose, bears, wolves, other furbearers, and other mammal species in the mine area for use in baseline characterization and impact assessment;
- Collect information on mammals from incidental sightings by other personnel working on the project;
- Begin survey planning for moose and brown bears in 2007, in cooperation with the Alaska Department of Fish and Game and the National Park Service; and
- Compile and summarize the mammal information from 2004 and 2005 in the environmental baseline document.

#### Raptors

No field surveys for raptors will be conducted in 2006. Surveys for nesting raptors were conducted in 2004 and 2005 as described in Chapter 9 of the respective study plans for those years. Figure 9.1-2 shows

the study areas for the 2004 and 2005 raptor studies. The 2004 and 2005 survey data for raptors will be presented in the preliminary environmental baseline document.

### Waterbirds

No field surveys for waterbirds will be conducted in 2006. Surveys for migrating and nesting waterbirds were conducted in 2004 and 2005 as described in Chapter 9 of the respective study plans for those years. Figure 9.1-3 shows the study areas for the 2004 and 2005 waterbird studies. The 2004 and 2005 survey data for waterbirds will be presented in the preliminary environmental baseline document.

### Breeding Birds

No field surveys for breeding birds (methods focused on landbirds and shorebirds) will be conducted in 2006. Surveys for breeding birds were conducted in 2004 and 2005 as described in Chapter 9 of the respective study plans for those years. Figure 9.1-4 shows the survey areas for the 2004 and 2005 breeding bird studies in the mine area. The 2004 and 2005 survey data for breeding birds will be presented in the preliminary environmental baseline document (to be completed in 2006).

### Wildlife Habitat Mapping

No field surveys for the wildlife habitat mapping work will be conducted in 2006. Field data were collected in 2004 and 2005 and digital mapping of habitats is being conducted now. Details of the field and mapping methods are presented in Chapter 9 of the 2005 study plan. The area to be mapped for wildlife habitats and the 2004 and 2005 survey areas are illustrated in Figure 9.1-5. A final wildlife habitat map is not expected to be finished until 2007.

### Rare-Plant Occurrence Potential

Most of the work for the rare-plant occurrence study was conducted in 2005 (no field surveys are being conducted for this work). The remainder of the work will be completed during compilation of the chapter on threatened and endangered species for the preliminary environmental baseline document. Details of the methods for this work are presented in Chapter 9 of the 2005 study plan.

## 9.2 Transportation Corridor Studies

Details of the studies of terrestrial wildlife and habitat along the transportation corridor for 2006 are as described in Chapter 9.2 of the 2005 study plan, except as discussed below. Table 9-1 summarizes tasks for the wildlife studies in 2004 through 2006.

### Mammals

No field surveys for mammals will be conducted in the transportation corridor and no surveys of harbor seals in Iliamna Lake will be conducted in 2006. Surveys for large mammals were conducted in the transportation corridor in 2004 and 2005 and surveys for harbor seals were conducted in Iliamna Lake in 2005. Details of the field methods for mammals are presented in Chapter 9 of the respective study plans for those years. Figure 9.2-1 shows the study areas for large mammals, including seals, in 2004 and 2005.

Although no field surveys will be conducted in 2006, the following tasks will be accomplished:

- Cooperate with state and federal agencies to obtain existing population and harvest survey data for moose, bears, wolves, other furbearers, and other mammal species in the transportation corridor for use in baseline characterization and impact assessment.
- Collect information on mammals from incidental sightings by other personnel working on the project.
- Begin planning for intensive moose and brown bear surveys in 2007, in cooperation with the Alaska Department of Fish and Game and the National Park Service.
- Compile and summarize the mammal information from 2004 and 2005 in the preliminary environmental baseline document.

### Raptors

No field surveys for raptors will be conducted in 2006. Surveys for nesting raptors were conducted in 2004 and 2005 as described in Chapter 9 of the respective study plans for those years. Figure 9.1-2 shows the survey areas for the 2004 and 2005 raptor studies. The 2004 and 2005 survey data for raptors will be presented in the preliminary environmental baseline document.

### Waterbirds

No field surveys for waterbirds will be conducted in 2006. Surveys for migrating and nesting waterbirds were conducted in 2004 and 2005 as described in Chapter 9 of the respective study plans for those years. Figure 9.1-3 shows the survey areas for the 2004 and 2005 waterbird studies. The 2004 and 2005 survey data for waterbirds will be presented in the preliminary environmental baseline document.

### Breeding Birds

No field surveys for breeding birds (methods focused on landbirds and shorebirds) will be conducted in 2006. Surveys for breeding birds along the transportation corridor were conducted only in 2005, as described in Chapter 9 of the 2005 study plan. Figure 9.2-2 shows the survey areas for the 2005 breeding bird studies along the transportation corridor. The 2005 survey data for breeding birds will be presented in the preliminary environmental baseline document.

### Wildlife Habitat Mapping

No field surveys for the wildlife habitat mapping work will be conducted in 2006. Field data were collected in 2004 and 2005, and digital mapping of habitats is being conducted now. Details of the field and mapping methods are presented in Chapter 9 of the 2005 study plan. The area to be mapped for wildlife habitats and the 2004 and 2005 survey areas are illustrated in Figure 9.2-3. A final wildlife habitat map is not expected until 2007.

## Rare-Plant Occurrence Potential

Most of the work for the rare-plant occurrence study was conducted in 2005 (no field surveys are being conducted for this work). The remainder of the work will be completed during compilation of the chapter on threatened and endangered species for the preliminary environmental baseline document. Details of the methods for this work are presented in Chapter 9 of the 2005 study plan.

**Table 9-1  
Pebble Project Environmental Studies  
Study Summary for Wildlife, 2004-2006  
Consultant: ABR, Inc.**

Discipline	2004 Data Collected or Tasks	2005 Data Collected or Tasks	2006 Tasks to be Completed
<b>Mammals</b>		<b>Mine Studies Area</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search & Review	Information Gathering / Literature Search & Review
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
	Aerial Transect Surveys (1 each in April, May, July, August, October, November)	Aerial Transect Surveys (1 in March, 2 in May, 1 in June, 1 in July, 1 in August, 1 in October, 1 in December)	Aerial Transect Surveys (2 in May, 1 in June, 1 in July)
	Bear Den Survey (August)	Bear Den Surveys (1 each in May and July)	Bear Den Surveys (1 each in May and July)
		Beaver Cache Survey (1 in October)	
		Mulchatna Caribou Herd Telemetry Data Analysis	Mulchatna Caribou Herd Telemetry Data Analysis
	Preliminary Impact Analysis of Mine Development Scenarios and Mitigation Planning	Initial Environmental Analysis of Mine Development Concepts and Mitigation Planning	Input to Preliminary Environmental Evaluation Document
	Data Entry and Analysis	Data Entry and Analysis	Data Entry and Analysis
	Communication and Data Management	Communication and Data Management	Communication and Data Management
	Coordination with NDM, Agency Meetings	Coordination with NDM, Agency Meetings, and Monthly Reporting	Coordination with NDM, Agency Meetings, and Monthly Reporting
		2004 Progress Report	Draft Environmental Baseline Document
		Planning for Cooperative Survey Efforts with Agencies	
<b>Raptors</b>		<b>Mine Studies Area</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search & Review	Information Gathering / Literature Search & Review
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Recommendations
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
	Aerial Surveys for Tree-nesting Raptors (April)	Aerial Surveys to Determine Occupancy (May)	
	Aerial Surveys for Cliff-nesting Raptors (May-June)	Aerial Surveys to Determine Nesting Success and Productivity (June-August)	
		Aerial Surveys for Wintering Bald Eagles (November and February)	
	Preliminary Impact Analysis of Mine Development Scenarios and Mitigation Planning	Initial Environmental Analysis of Mine Development Concepts and Mitigation Planning	Input to Preliminary Environmental Evaluation Document
	Data Entry and Analysis	Data Entry and Analysis	Data Analysis
	Communication and Data Management	Communication and Data Management	Communication and Data Management
	Coordination with NDM, Agency Meetings	Coordination with NDM, agency meetings, and monthly reporting	Coordination with NDM, agency meetings, and monthly reporting
	2004 Progress Report	Draft Environmental Baseline Document	

**Table 9-1  
Pebble Project Environmental Studies  
Study Summary for Wildlife, 2004-2006  
Consultant: ABR, Inc.**

Discipline	2004 Data Collected or Tasks	2005 Data Collected or Tasks	2006 Tasks to be Completed
<b>Waterfowl</b>		<b>Mine Studies Area</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search & Review	Information Gathering / Literature Search & Review
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Recommendations
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
	Spring and Fall Waterfowl Migration Surveys (April, May, Sept, Oct)	Spring and Fall Migration Surveys (April, May, August, Sept, Oct)	
	Breeding Waterfowl Surveys (early June)	Breeding Waterfowl Surveys (late May)	
	Breeding Swan Surveys (early June)	Breeding Swan Surveys (late May)	
	Breeding Harlequin Duck Surveys (May)	Breeding Harlequin Duck Surveys (May)	
	Brood-rearing Harlequin Duck Surveys (July)	Brood-rearing Harlequin Duck Surveys (July, August)	
	Brood-rearing Waterfowl Surveys (July)	Brood-rearing Waterfowl Surveys (July)	
		Breeding Gull Surveys (June)	
		Molting Waterfowl Surveys (July, August)	
	Preliminary Impact Analysis of Mine Development Scenarios and Mitigation Planning	Initial Environmental Analysis of Mine Development Concepts and Mitigation Planning	Input to Preliminary Environmental Evaluation Document
	Data Entry and Analysis	Data Entry and Analysis	Data Analysis
	Communication and Data Management	Communication and Data Management	Communication and Data Management
Coordination with NDM, Agency Meetings	Coordination with NDM, Agency Meetings, and Monthly Reporting	Coordination with NDM, Agency Meetings, and Monthly Reporting	
	2004 Progress Report	Draft Environmental Baseline Document	
<b>Breeding Birds</b>		<b>Mine Studies Area</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search & Review	Information Gathering / Literature Search & Review
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Recommendations
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
	Breeding Bird Point-Count Surveys (June)	Breeding Bird Point-Count Surveys (June)	
	Preliminary Impact Analysis of Mine Development Scenarios and Mitigation Planning	Initial Environmental Analysis of Mine Development Concepts and Mitigation Planning	Input to Preliminary Environmental Evaluation Document
	Data Entry and Analysis	Data Entry and Analysis	Data Analysis
	Communication and Data Management	Communication and Data Management	Communication and Data Management
	Coordination with NDM, Agency Meetings	Coordination with NDM, Agency Meetings, and Monthly Reporting	Coordination with NDM, Agency Meetings, and Monthly Reporting
		2004 Progress Report	Draft Environmental Baseline Document
<b>Habitat Mapping</b>		<b>Mine Studies Area</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search	Information Gathering / Literature Search
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
	Habitat Surveys to Ground Truth Aerial Photography (August)	Habitat Surveys to Ground Truth Aerial Photography (August)	
	Map Coordination with 3PP	Map Coordination with 3PP	Map Coordination with 3PP
	Data Entry and Analysis	Data Entry and Analysis	Data Analysis and Digital Habitat Mapping
	Communication and Data Management	Communication and Data Management	Communication and Data Management
	Coordination with NDM, Agency Meetings	Coordination with NDM, Agency Meetings, and Monthly Reporting	Coordination with NDM, Agency Meetings, and Monthly Reporting
		2004 Progress Report	
<b>Rare Plant Occurrence Potential</b>		<b>Mine Studies Area</b>	
		Information Gathering	Information Gathering
	Scope	Scope, Schedule	Scope, Schedule
		2005 Study Plan	2006 Study Plan Summary
		Data Compilation and Analysis	Data Compilation and Analysis
		Draft Environmental Baseline Document	

**Table 9-1**  
**Pebble Project Environmental Studies**  
**Study Summary for Wildlife, 2004-2006**  
**Consultant: ABR, Inc.**

Discipline	2004 Data Collected or Tasks	2005 Data Collected or Tasks	2006 Tasks to be Completed
<b>Mammals</b>		<b>Transportation Corridor</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search & Review	Information Gathering / Literature Search & Review
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Recommendations
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
	Aerial Reconnaissance Surveys (1 each in April, May, July, August, October, November)	Aerial Transect Surveys (1 in March, 2 in May, 1 in June, 1 in July, 1 in August, 1 in October, 1 in December)	
	Aerial Survey of Bears on Salmon Spawning Streams (1 in August)		
		Aerial Surveys of Harbor Seal Haulouts in Iliamna Lake (19 total; May-October)	
	Data Entry and Analysis	Data Entry and Analysis	Data Analysis
	Communication and Data Management	Communication and Data Management	Communication and Data Management
	Coordination with NDM, Agency Meetings	Coordination with NDM, Agency Meetings, and Monthly Reporting	Coordination with NDM, Agency Meetings, and Monthly Reporting
	2004 Progress Report	Draft Environmental Baseline Document	
		Planning for Cooperative Survey Efforts with Agencies	
<b>Raptors</b>		<b>Transportation Corridor</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search & Review	Information Gathering / Literature Search & Review
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Recommendations
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
	Aerial Surveys for Tree-nesting Raptors (April)	Aerial Surveys to Determine Occupancy (May)	
	Aerial Surveys for Cliff-nesting Raptors (May-June)	Aerial Surveys to Determine Nesting Success and Productivity (June-August)	
		Aerial Surveys for Wintering Bald Eagles (November and February)	
	Data Entry and Analysis	Data Entry and Analysis	Data Analysis
	Communication and Data Management	Communication and Data Management	Communication and Data Management
	Coordination with NDM, Agency Meetings	Coordination with NDM, Agency Meetings, and Monthly Reporting	Coordination with NDM, Agency Meetings, and Monthly Reporting
	2004 Progress Report	Draft Environmental Baseline Document	
<b>Waterfowl</b>		<b>Transportation Corridor</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search & Review	Information Gathering / Literature Search & Review
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Recommendations
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
	Spring and Fall Waterfowl Migration Surveys (April, May, Sept, Oct)	Spring and Fall Migration Surveys (April, May, August, Sept, Oct)	
	Breeding Waterfowl Surveys (early June)	Breeding Waterfowl Surveys (late May)	
	Breeding Swan Surveys (early June)	Breeding Swan Surveys (late May)	
	Breeding Harlequin Duck Surveys (May)	Breeding Harlequin Duck Surveys (May)	
		Brood-rearing Harlequin Duck Surveys (July, August)	
	Data Entry and Analysis	Data Entry and Analysis	Data Analysis
Communication and Data Management	Communication and Data Management	Communication and Data Management	
Coordination with NDM, Agency Meetings	Coordination with NDM, Agency Meetings, and Monthly Reporting	Coordination with NDM, Agency Meetings, and Monthly Reporting	
	2004 Progress Report	Draft Environmental Baseline Document	

**Table 9-1  
Pebble Project Environmental Studies  
Study Summary for Wildlife, 2004-2006  
Consultant: ABR, Inc.**

Discipline	2004 Data Collected or Tasks	2005 Data Collected or Tasks	2006 Tasks to be Completed
<b>Breeding Birds</b>		<b>Transportation Corridor</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search & Review	Information Gathering / Literature Search & Review
	Scope, Schedule	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Recommendations
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
		Breeding Bird Point-Count Surveys (June)	
		Data Entry and Analysis	Data Analysis
	Communication and Data Management	Communication and Data Management	Communication and Data Management
	Coordination with NDM, Agency Meetings	Coordination with NDM, Agency Meetings, and Monthly Reporting	Coordination with NDM, Agency Meetings, and Monthly Reporting
	2004 Progress Report	Draft Environmental Baseline Document	
<b>Habitat Mapping</b>		<b>Transportation Corridor</b>	
	Information Gathering / Literature Search	Information Gathering / Literature Search	Information Gathering / Literature Search
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary
	Habitat Surveys to Ground Truth Aerial Photography (August)	Habitat Surveys to Ground Truth Aerial Photography (August)	
	Map Coordination with HDR	Map Coordination with HDR	Map Coordination with HDR
	Data Entry and Analysis	Data Entry and Analysis	Data Analysis and Digital Habitat Mapping
	Communication and Data Management	Communication and Data Management	Communication and Data Management
Coordination with NDM, Agency Meetings	Coordination with NDM, Agency Meetings, and Monthly Reporting	Coordination with NDM, Agency Meetings, and Monthly Reporting	
	2004 Progress Report		
<b>Rare Plant Occurrence Potential</b>		<b>Transportation Corridor</b>	
		Information Gathering	Information Gathering
	Scope	Scope, Schedule	Scope, Schedule
		2005 Study Plan	2006 Study Plan Summary
		Data Compilation and Analysis	Data Compilation and Analysis
		Draft Environmental Baseline Document	

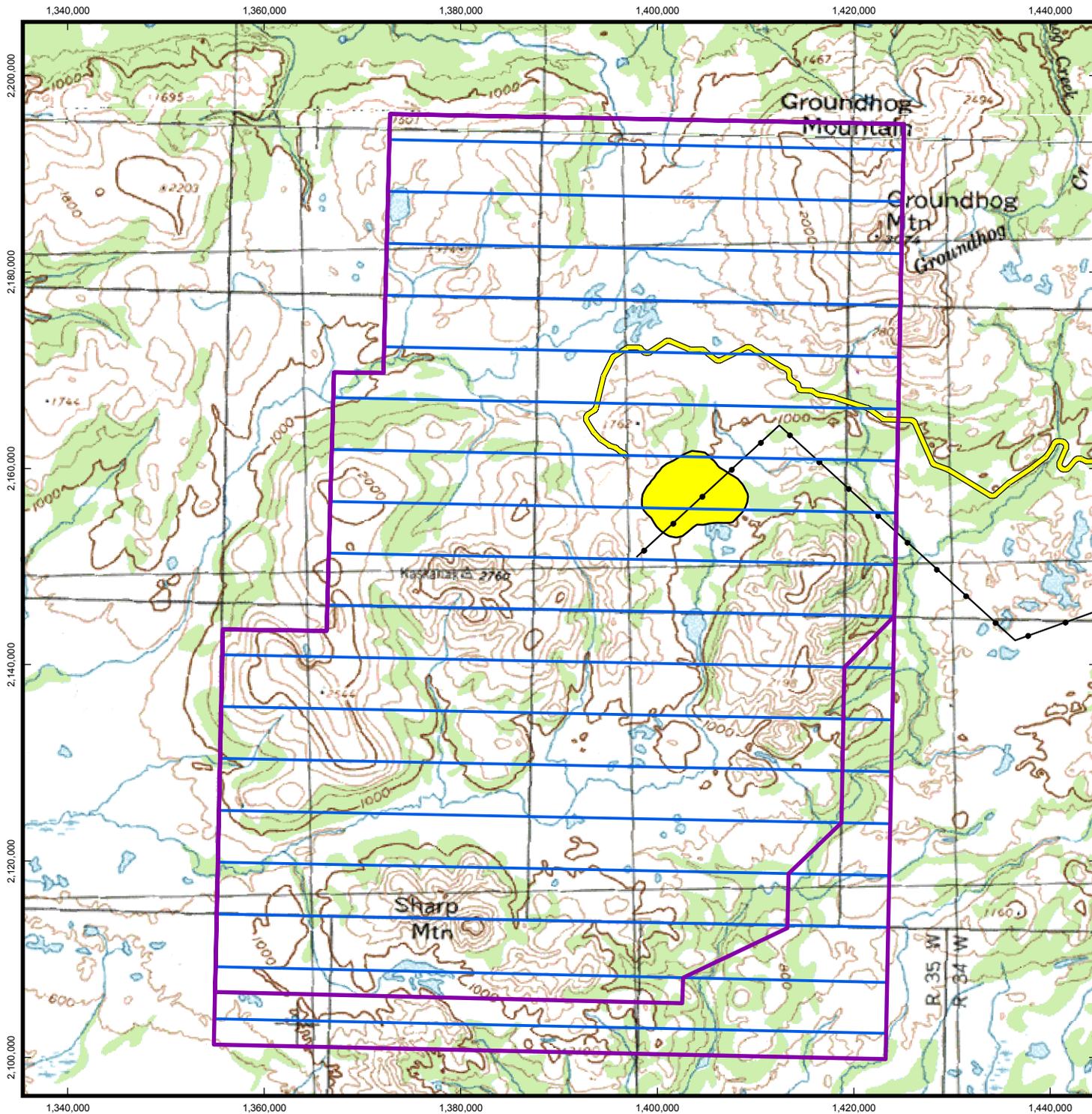
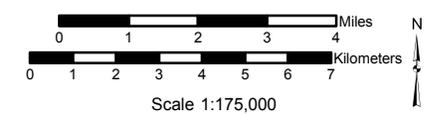


Figure 9.1-1.  
2004, 2005 and 2006 Survey  
Transects for Large Mammals  
in the Mine Study Area  
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**Mammal Survey Areas**

-  2004, 2005 and 2006 Aerial Survey Transects
-  2004, 2005 and 2006 Aerial Survey Area
-  2005 Pit Outline
-  Proposed Road Alignment
-  Proposed Transmission Line



Scale 1:175,000  
Alaska State Plane Zone 5 (units feet)  
1983 North American Datum

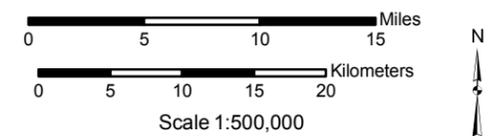
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Version: 1	Author: ABR-AZC

Figure 9.1-2.  
2004 and 2005 Survey Areas for  
Raptors in the Mine Study Area  
and Transportation Corridor

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### Raptor Survey Areas

-  2004 Survey Area
-  2005 Survey Area
-  2005 Pit Outline
-  Proposed Road Alignment
-  Proposed Transmission Line
-  Proposed Submarine Powerline
-  Proposed Port Site



Alaska State Plane Zone 5 (units feet)  
1983 North American Datum

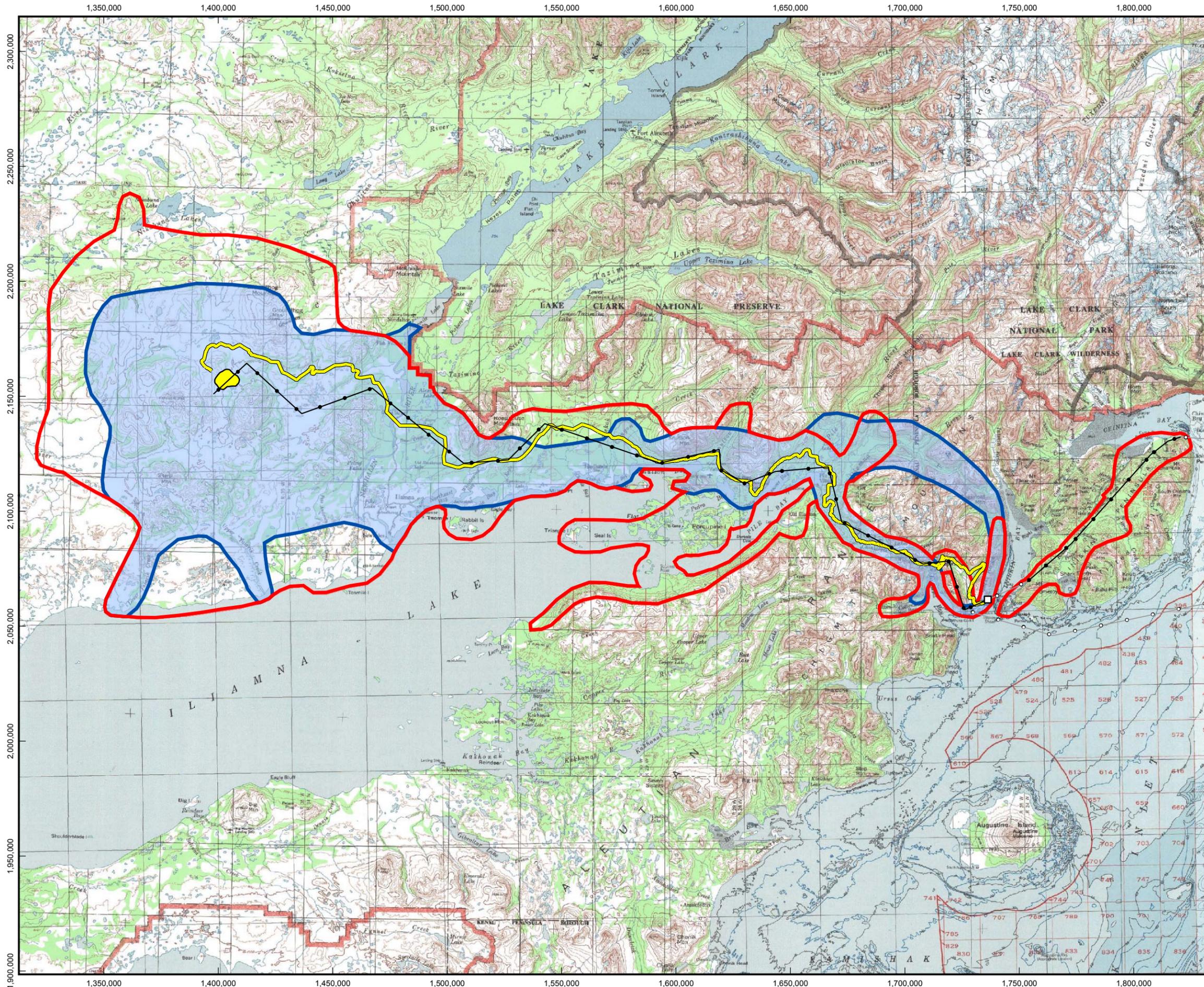
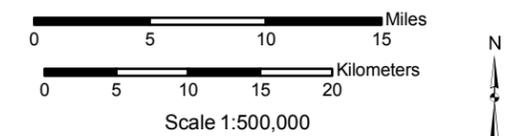


Figure 9.1-3.  
2004 and 2005  
Survey Areas for Waterbirds,  
Mine and Transportation Corridor

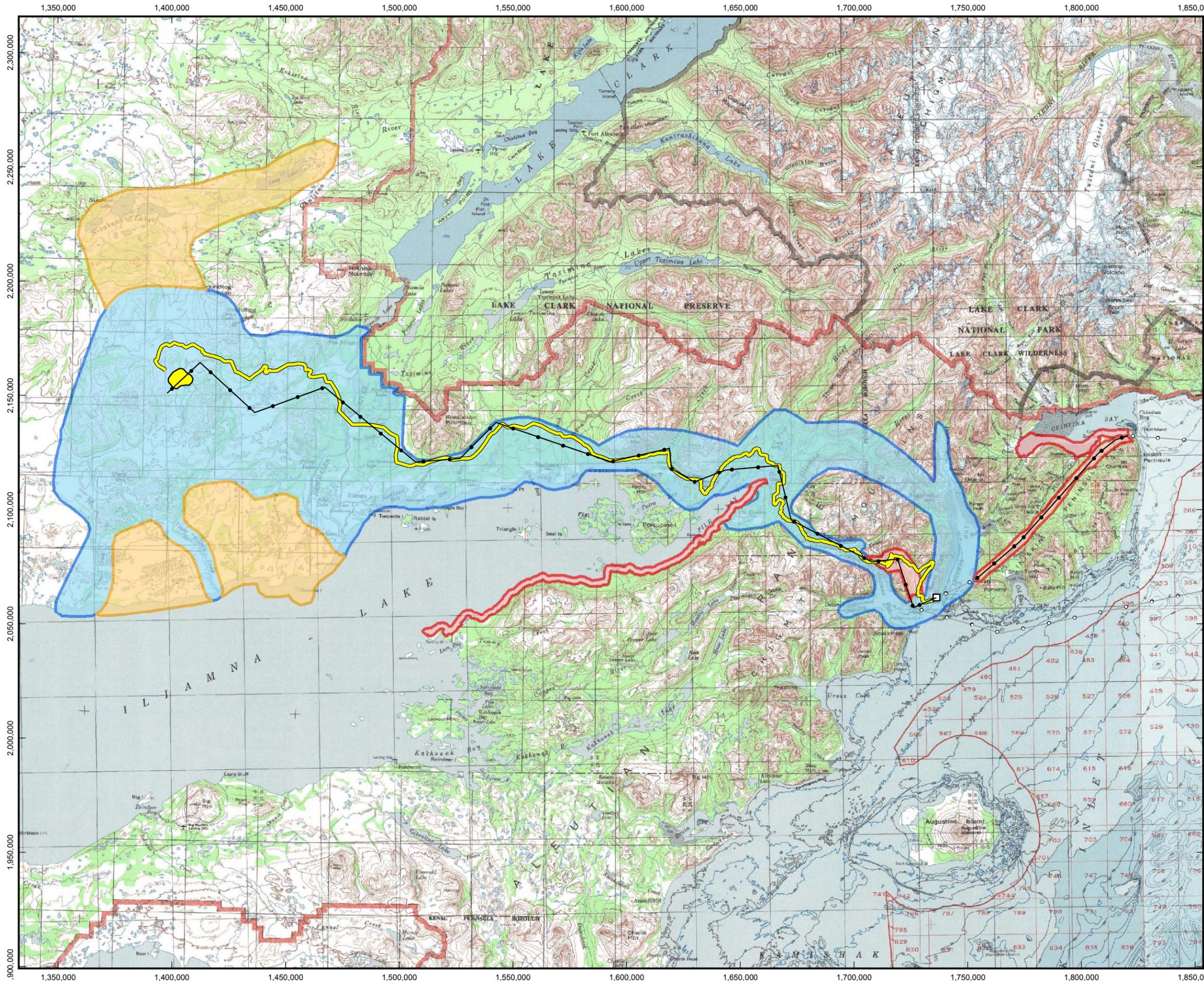
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### Waterbird Survey Areas

-  2004 and 2005 Survey Area
-  2005 Survey Area Expansion
-  2005 Reconnaissance Survey
-  2005 Pit Outline
-  Proposed Road Alignment
-  Proposed Transmission Line
-  Proposed Submarine Powerline
-  Proposed Port Site



Alaska State Plane Zone 5 (units feet)  
1983 North American Datum



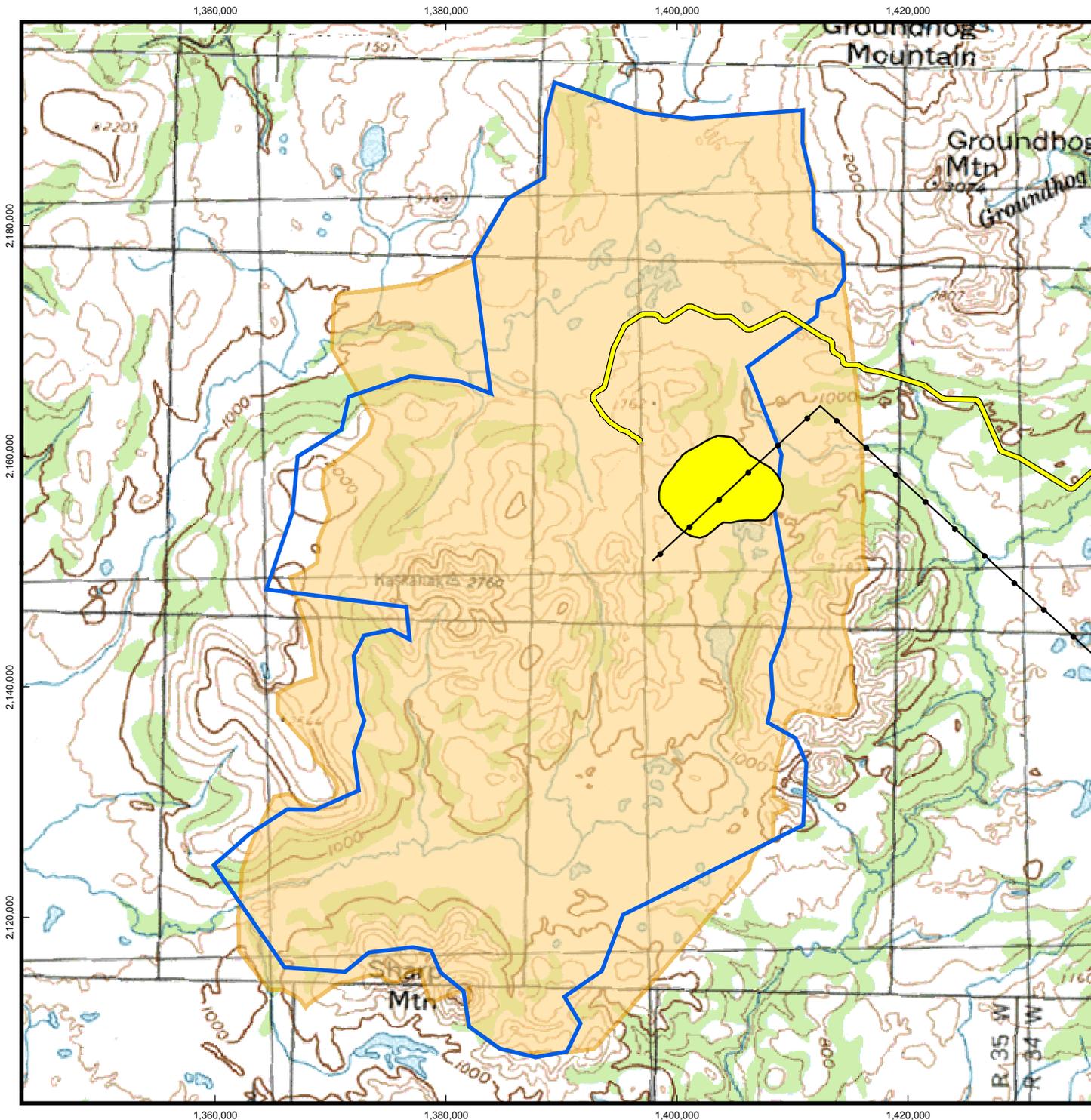
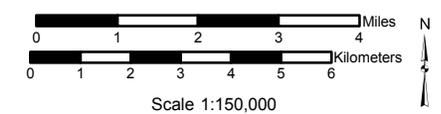


Figure 9.1-4.  
2004 and 2005 Survey Areas  
for Breeding Birds  
in the Mine Study Area

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**Breeding Bird Survey Areas**

-  2004 Survey Area
-  2005 Survey Area
-  2005 Pit Outline
-  Proposed Road Alignment
-  Proposed Transmission Line



Scale 1:150,000  
Alaska State Plane Zone 5 (units feet)  
1983 North American Datum

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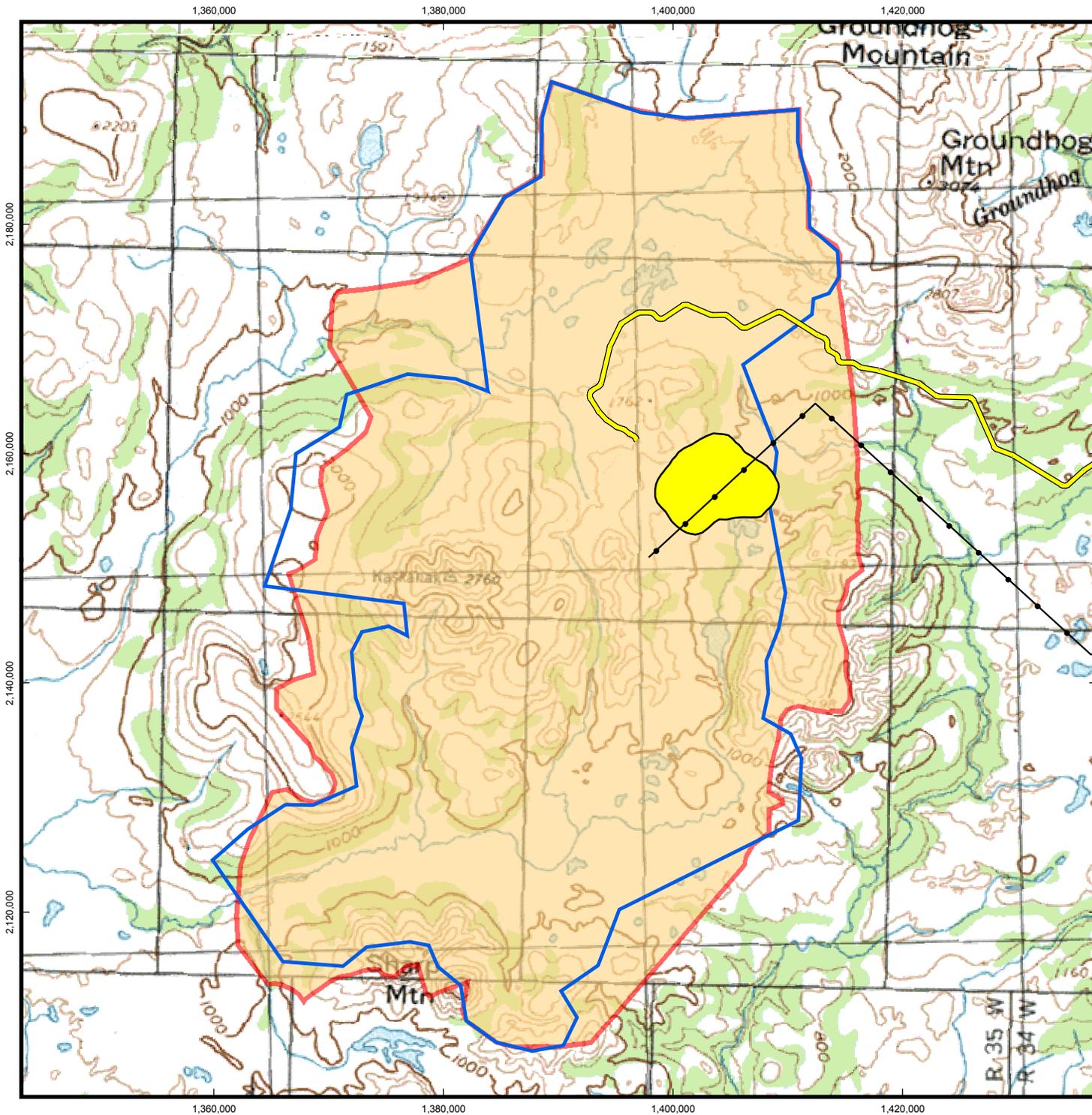


Figure 9.1-5.  
2004 and 2005 Survey Areas  
and 2006 Mapping Area  
for Wildlife Habitats  
in the Mine Study Area

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**Wildlife Habitat Survey  
and Mapping Areas**

-  2004 Survey Area
-  2005 Survey Area and 2006 Mapping Area
-  2005 Pit Outline
-  Proposed Road Alignment
-  Proposed Transmission Line



Alaska State Plane Zone 5 (units feet)  
1983 North American Datum

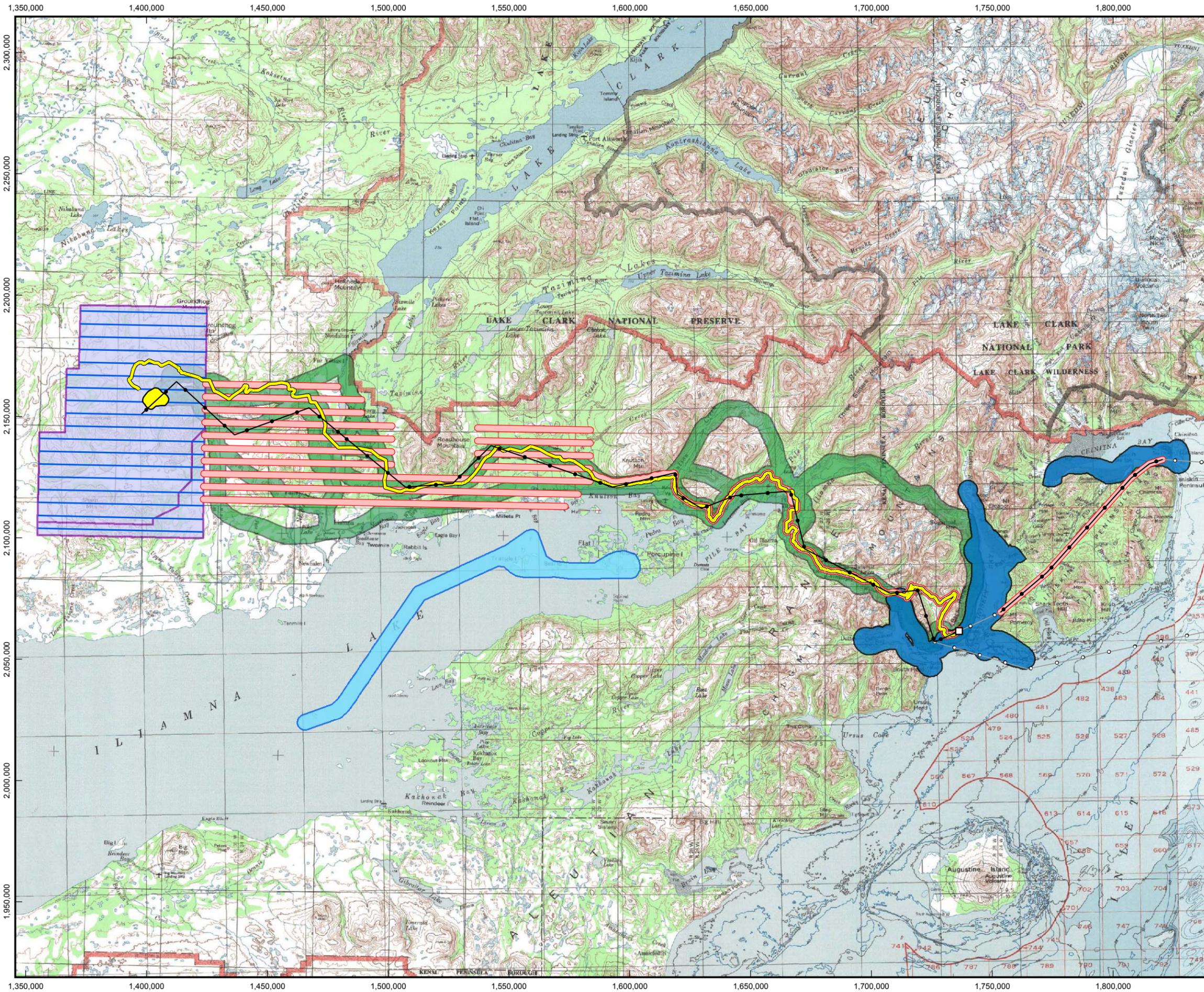
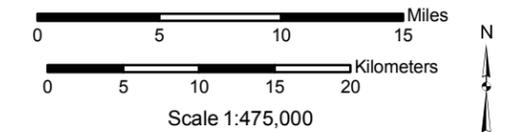


Figure 9.2-1.  
 2004 and 2005 Survey Areas for Large Mammals in the Mine Study Area, along the Transportation Corridor and in Iliamna Lake  
 and in Iliamna Lake

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**Mammal Survey Areas**

- 2004 and 2005 Mine Survey Transects
- 2004 and 2005 Mine Transect Survey Area
- 2004 Survey Area
- 2005 Transportation Corridor Survey Area
- 2005 Iliamna Lake Seal Survey
- 2005 Coastal Bay Seal Survey
- 2005 Pit Outline
- Proposed Road Alignment
- Proposed Transmission Line
- Proposed Submarine Powerline
- Proposed Port Site



Scale 1:475,000  
 Alaska State Plane Zone 5 (units feet)  
 1983 North American Datum

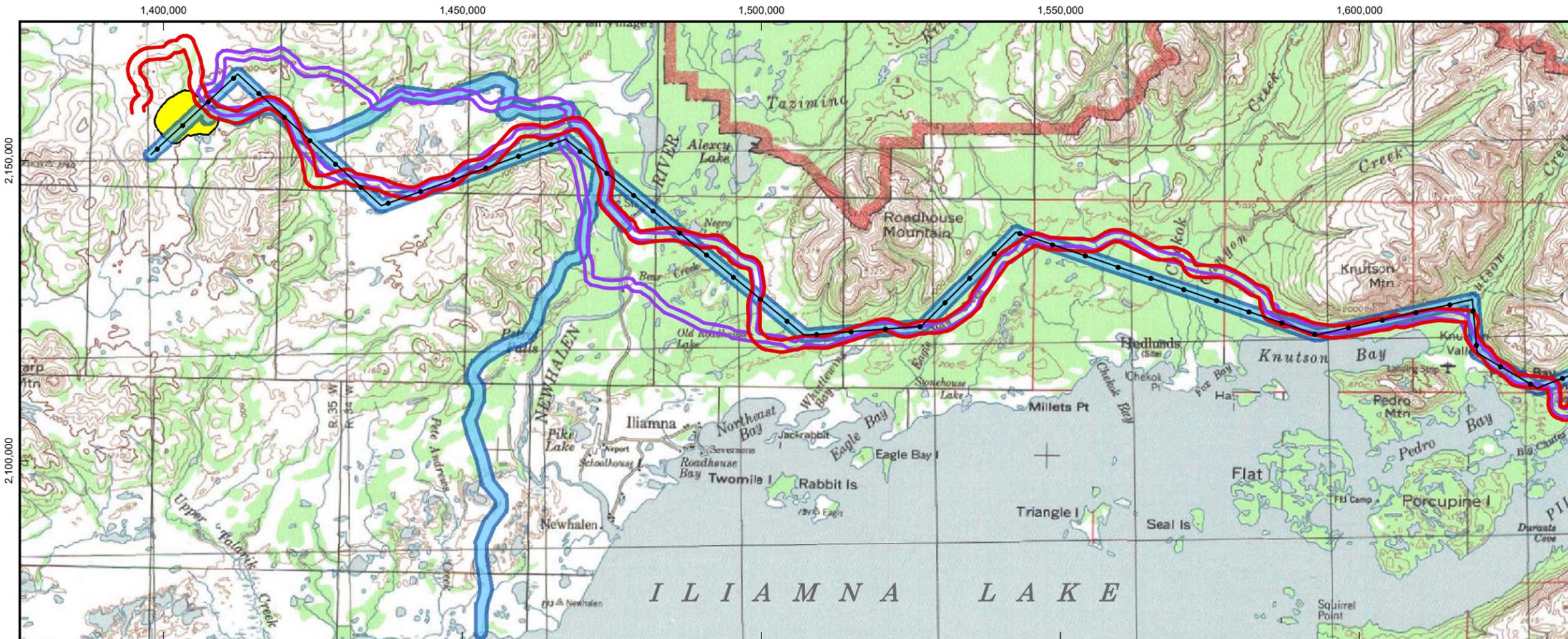
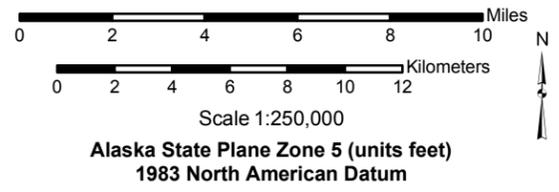
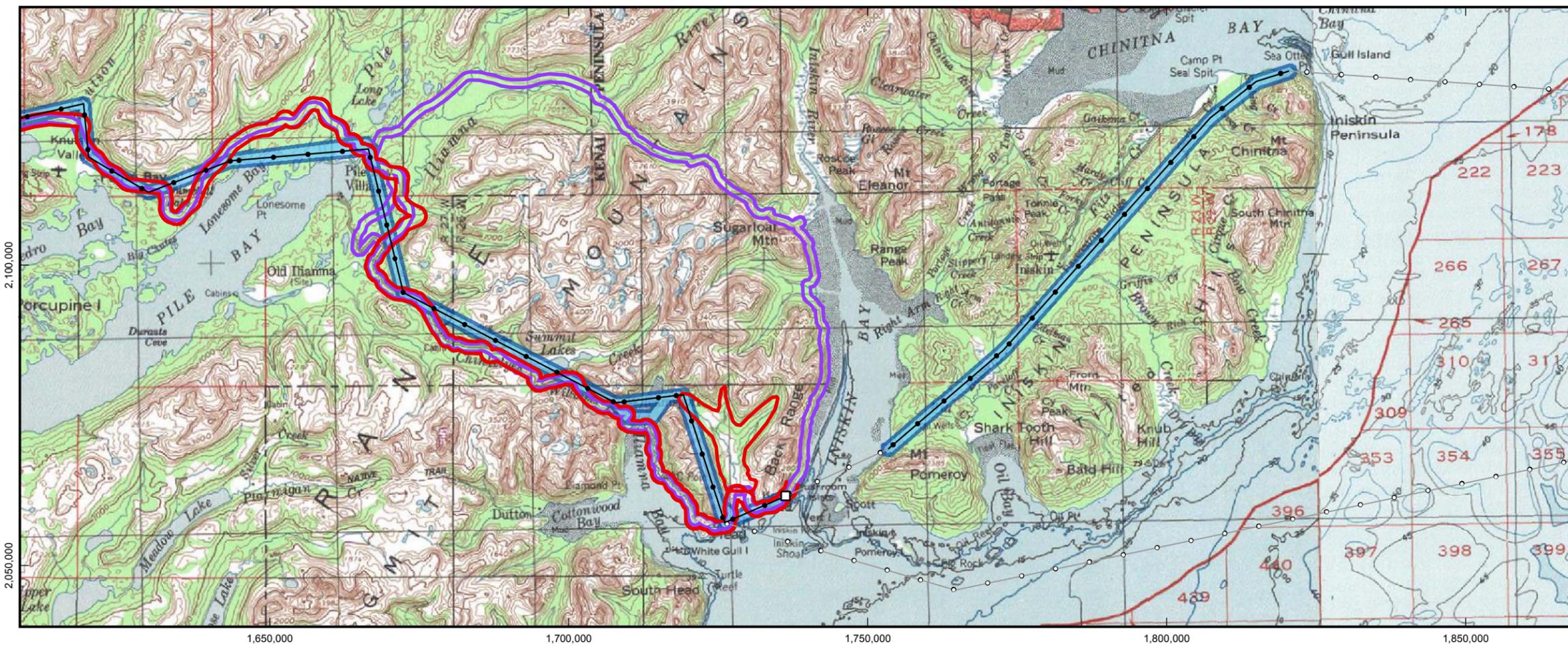


Figure 9.2-2.  
 2004 and 2005 Survey Areas  
 for Breeding Birds  
 in the Transportation Corridor  
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**Breeding Bird Survey Areas**

-  2004 Survey Area  
(1312-ft road corridor)
-  2005 Survey Area  
(2000-ft road corridor and Y-valley)
-  2005 Reconnaissance Survey
-  2005 Pit Outline
-  Proposed Transmission Line
-  Proposed Submarine Powerline
-  Proposed Port Site



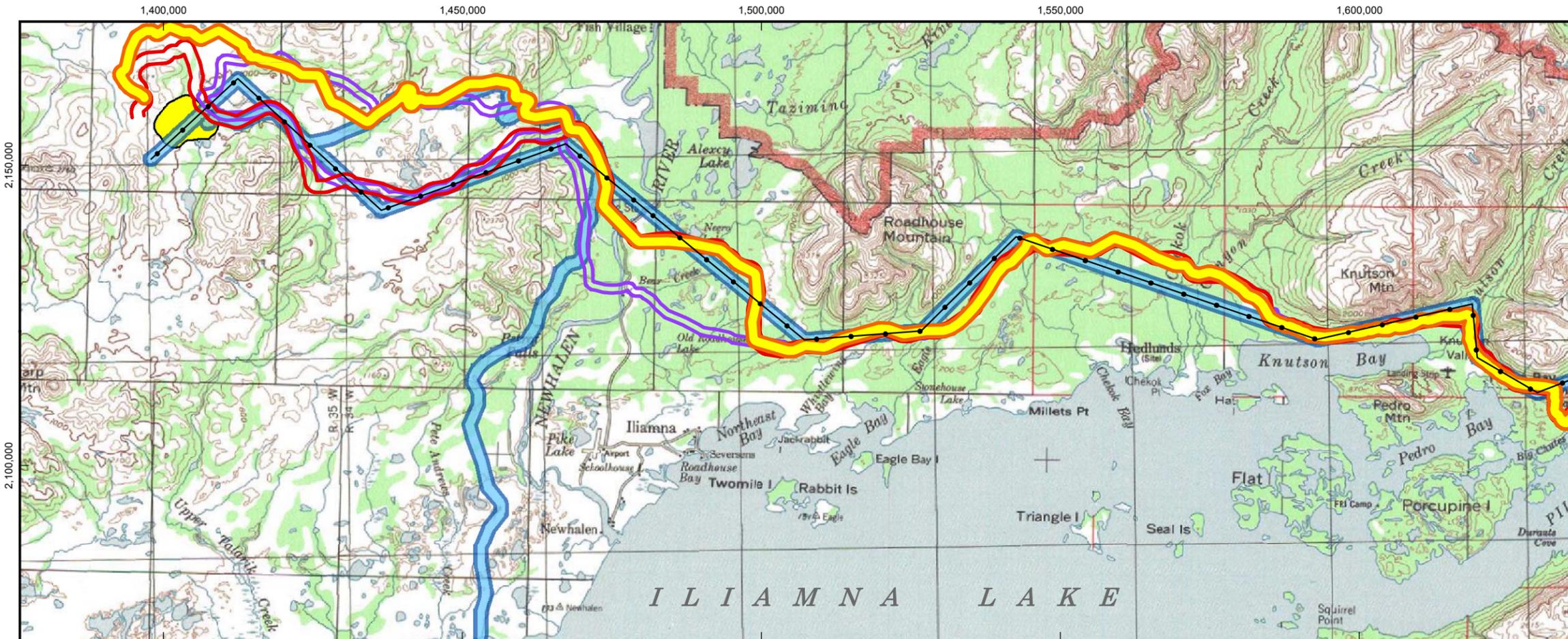


Figure 9.2-3.  
 2004 and 2005 Survey Areas  
 and 2006 Mapping Area  
 for Wildlife Habitats  
 in the Transportation Corridor

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**Wildlife Habitat Survey and Mapping Areas**

-  2004 Survey Area  
(1312-ft road corridor)
-  2005 Survey Area  
(2000-ft road corridor and Y-valley)
-  2005 Reconnaissance Survey
-  2006 Mapping Area  
(2000-ft road corridor)

-  2005 Pit Outline
-  Proposed Transmission Line
-  Proposed Submarine Powerline
-  Proposed Port Site

