



NORTHERN DYNASTY MINES INC.

**DRAFT ENVIRONMENTAL BASELINE STUDIES
PROPOSED 2007 STUDY PLANS**

**CHAPTER 14.
CULTURAL RESOURCES**

DRAFT

SEPTEMBER 2007

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14. CULTURAL RESOURCES

The objectives and methods/approach for the mine area, transportation corridor, and port area are the same as described in the 2005 study plan, except as noted below. Stephen R. Braund & Associates (SRB&A) will lead cultural resources work on all three of these areas.

Table 14-1 summarizes work done for the cultural resources studies in 2004 through 2007.

14.1 Objectives of Study

The objectives of the cultural resources studies are the same as described in Section 14.1 of the 2005 study plan.

14.2 Proposed Study Plan

The proposed work for 2007 is a continuation of the cultural resources surveys started in 2004 and described in Chapter 14 of the 2005 study plan.

SRB&A has surveyed the mine components to their known extent as of 2006. To the extent that footprints of mine components are expanded or revised in 2007, the 2007 cultural resources field season will include a survey of these revised components of the mine as well as surveys of exploration-drilling areas that were not surveyed in 2004, 2005, or 2006. Figure 14-1 shows areas SRB&A surveyed in 2004, 2005, and 2006 and the area proposed to be surveyed in 2007 based on the most recent exploration information. This survey area could change based on the needs of Northern Dynasty Mines Inc.

The 2007 study plan will include cultural resources interviews at seven communities in the vicinity of the mine area, transportation corridor, and port area (Igiugig, Iliamna, Kokhanok, Newhalen, Nondalton, Pedro Bay, and Port Alsworth). The 2007 study plan will also include a review of a regional place-names inventory compiled under contract with the National Park Service. Information regarding cultural resources obtained during these interviews and during a review of the place-names inventory will be included in forthcoming reports.

The 2007 cultural resources field season will not include the transportation and utility alignments (e.g., road, pipeline, or power line) because these alignments have not yet been defined and centerlines have not been surveyed and staked.

TABLE

TABLE 14-1
Pebble Project Environmental Studies
Study Summary for Cultural Resources, 2004-2007
Consultant: Stephen R. Braund & Associates

Discipline	2004 Data Collected or Tasks	2005 Data Collected or Tasks	2006 Data Collected or Tasks	2007 Tasks to be Completed
Cultural Resources	Mine Studies Area			
	Lit review & background information gathering	Lit review & background information gathering	Update literature review, AHRS & OHA information	Update literature review, AHRS & OHA information
	Scope, Schedule, Field Sampling Plan	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	2007 Study Plan Summary
	Initiate consultation	Continue consultation	Continue consultation (agencies, Native orgs, others)	Continue consultation (agencies, Native orgs, others). Expand to include field interviews (see study plan).
	Four trips (June-Sept): field & pedestrian surveys, subsurface testing, and monitoring of ground-disturbing activities. Surveyed the mine pit, meteorological monitoring stations, proposed and existing VHF repeater sites, water reservoir, reactive rock-storage areas, and low-grade ore stockpile.	April: surveyed exploration drilling area. August: two field trips to pit site to proposed tailings areas south and SW of pit area.	June: surveyed Upper Talarik Creek, west slope Koktuli Mtn, and ore body area. August: surveyed South Fork Koktuli River & Groundhog Mtn.	Field survey any expansion of mine footprint; survey exploration-drilling areas.
	Process field data, notes, photographs; compile and analyze data	Process field data, notes, photographs; compile and analyze data	Process field data, notes, photographs; compile and analyze data	Process field data, notes, photographs; compile and analyze data

Discipline	2004 Data Collected or Tasks	2005 Data Collected or Tasks	2006 Data Collected or Tasks	2007 Tasks to be Completed
		Compile baseline inventory and description of cultural resources in the vicinity of the project	Compile baseline inventory and description of cultural resources in the vicinity of the project	Compile baseline inventory and description of cultural resources in the vicinity of the project
	Presentation and report preparation	Presentation and report preparation	Presentation and report preparation	Presentation and report preparation
	Communication and data management	Communication and data management	Communication and data management	Communication and data management
	Coordination with NDM & Agencies	Coordination with NDM & Agencies	Coordination with NDM, agency meetings, and monthly reporting	Coordination with NDM, agency meetings, and monthly reporting
		2004 CR Progress Report to NDM (1/31/05)		
		2004 CR Progress Report to SHPO (1/31/05)	2005 CR Progress Report to SHPO	2006 CR Annual Progress Report to SHPO (Pending)
		Feasibility Report--Cultural Resources (9/13/05)		
	Agency Presentation-CR Oct 2004	Agency Presentation--Cultural Resources Nov 2005		
		Initial environmental analysis	Draft preliminary environmental baseline document	Draft preliminary environmental baseline document
			Prepare Section 106 report	Prepare Section 106 report
Cultural Resources	Transportation Corridor/Port Site			
	Lit review & background information gathering	Lit review & background information gathering	Update literature review, AHRS & OHA information	Update literature review, AHRS & OHA information
	Scope, Schedule, Field Sampling Plan	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	2007 Study Plan Summary
		Consultation	Continue Consultation	Continue Consultation
		June: two field trips to Iniskin Bay port site		
				Facilitate mitigation of any ground-disturbing activities at port site
			October 2006: Field survey of crossing landing on Newhalen River	Complete field survey of crossing landings on Newhalen River

Discipline	2004 Data Collected or Tasks	2005 Data Collected or Tasks	2006 Data Collected or Tasks	2007 Tasks to be Completed
				Field survey of specific transportation alignments (road, pipeline, powerline) after identified on ground
		Process field data, compile and analyze data	Process field data, compile and analyze data	Process field data, compile and analyze data
		Compile baseline inventory and description of cultural resources in the vicinity of the project	Continue baseline inventory and description of cultural resources in the vicinity of the project	Continue baseline inventory and description of cultural resources in the vicinity of the project
			Assess eligibility of known sites for listing on NRHP	Assess eligibility of known sites for listing on NRHP
		Report preparation	Report preparation	Report preparation
		Communication and data management	Communication and data management	Communication and data management
	Coordination with NDM & Agencies	Coordination with NDM & Agencies	Coordination with NDM, agency meetings, and monthly reporting	Coordination with NDM, agency meetings, and monthly reporting
			2005 CR Progress Report to SHPO (Pending)	2006 CR Annual Progress Report to SHPO (Pending)
		Initial environmental analysis	Draft preliminary environmental baseline document	Draft preliminary environmental baseline document
				Arrange artifact curation at repository

Notes:

AHRS = Alaska Heritage Resource Survey

CR = cultural resources

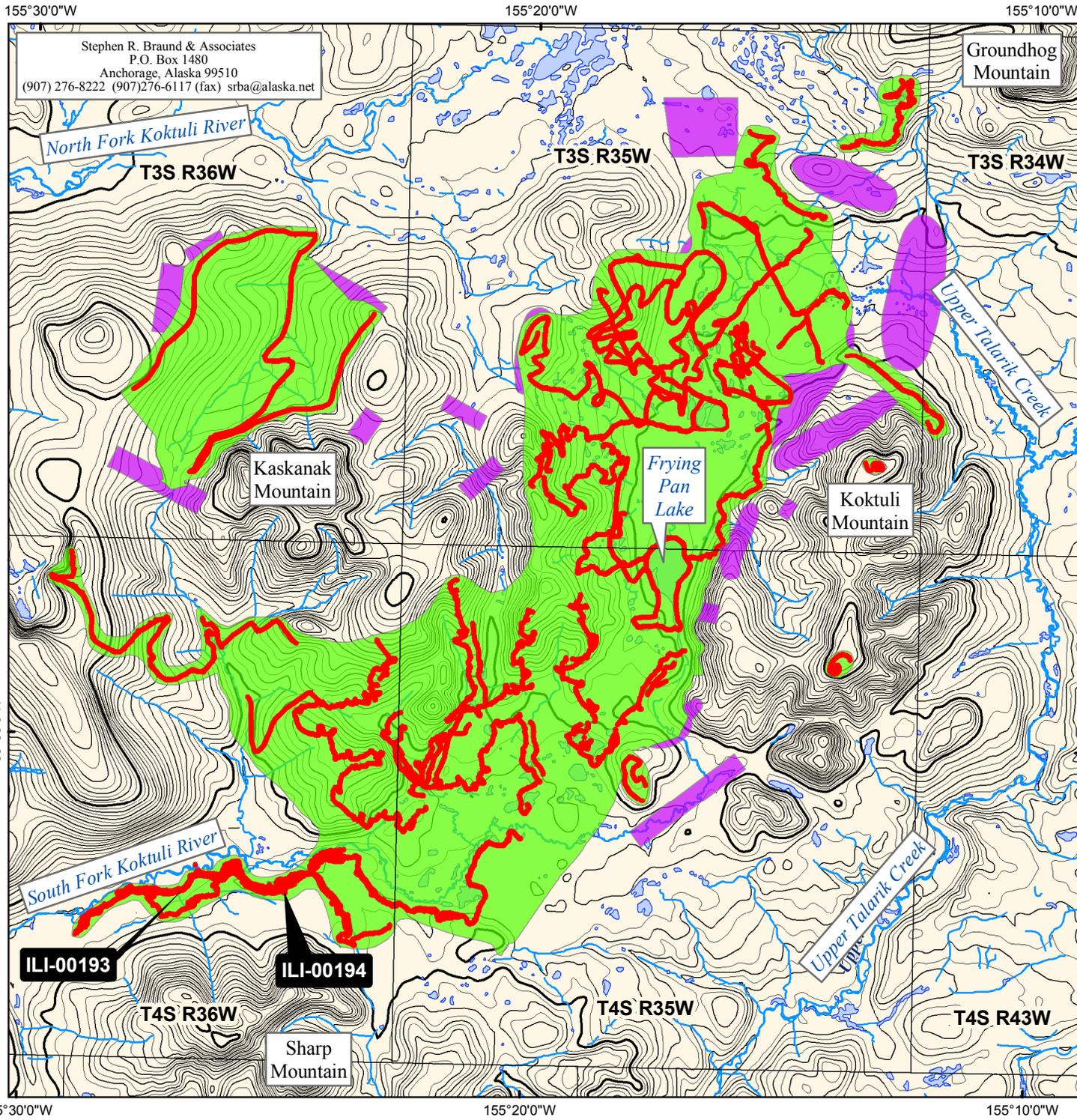
NDM = Northern Dynasty Mines Inc.

NRHP = National Register of Historic Places

OHA = Department of Natural Resources, Office of History and Archaeology

SHPO = State Historic Preservation Officer

FIGURE

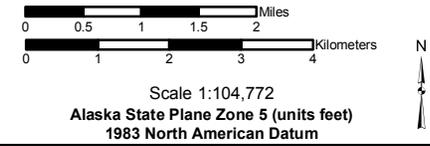


Stephen R. Braund & Associates
 P.O. Box 1480
 Anchorage, Alaska 99510
 (907) 276-8222 (907)276-6117 (fax) srba@alaska.net

Pebble Project
 NORTHERN DYNASTY MINES INC.

Figure 14-1
Cultural Resources
Survey in the Vicinity
of the Mine Components

- 2007 Proposed Survey Area
- Survey Track
- Area Surveyed Based on Probability Methodology



File: Fig1-2007_CR_workplan	Date: March 16, 2007
Version: 1	Author: SRB&A

155°30'0"W
 59°50'0"N
 155°30'0"W

155°20'0"W
 T3S R36W
 T3S R35W
 T4S R36W
 T4S R35W
 155°20'0"W

155°10'0"W
 T3S R34W
 T4S R43W
 155°10'0"W