

# DRAFT ENVIRONMENTAL BASELINE STUDIES PROPOSED 2007 STUDY PLANS

CHAPTER 2. METEOROLOGY

**DRAFT** 

SEPTEMBER 2007

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#### 2. Meteorology

Hoefler Consulting Group will lead the meteorology baseline study for Pebble Project in 2007. The objectives and scope of work for 2007 are the same as those described in the 2005 and 2006 study plans with the exceptions noted below.

Meteorological data will be collected at eight locations during 2007. The collection of Prevention of Significant Deterioration (PSD)-quality meteorological data will continue at the existing Pebble 1, Pebble 4, and Port Site 1 meteorological stations (Figure 2-1). Four new PSD-quality meteorological stations will be installed in June and July 2007: one each in the North Fork Koktuli Basin (Pebble 5), in the Upper Talarik Creek Basin (Pebble 6), at Williamsport, and on the east shore of Iliamna Bay (AC Point). "Official" data collection will begin on August 1, 2007, at those new stations, although actual data collection will likely begin before that date. The collection of non-PSD-quality data will continue at Pebble 3 in support of engineering and design for Pebble Project.

A summary of meteorological monitoring activities for 2004 through 2007 is shown in Table 2-1. The meteorological parameters that have been and will be monitored at each station are shown in Table 2-2. The methods and approaches described in Section 2.2.2 of the 2005 study plan have not changed.

### **TABLES**

## Table 2-1 **Pebble Project Environmental Studies** Meteorological Study Summary 2004-2007 Consultant: Hoefler Consulting Group

Discipline	2004	2005	2006	2007
	Data Collected or Tasks Completed	Data Collected or Tasks Completed	Data Collected or Tasks Completed	Tasks to be Completed
Meteorology		Mine St	udies Area	
	Information Gathering	Information Gathering	Information Gathering	Information Gathering
	Scope, Schedule, Field Monitoring Plan	Scope, Schedule, Field Monitoring Plan	Scope, Schedule, Field Monitoring Plan	Scope, Schedule, Field Monitoring Plan
		Prepared Meteorology Chapter of 2005 Study Plan	Prepared 2006 Study Plan Summary	Prepare 2007 Study Plan Summary
		Site Visit with ADEC and EPA to Finalize PSD-Quality	Continue Monitoring at Pebble 1 and Pebble 3	Continue Monitoring at Pebble 1, Pebble 3, and Pebble 4
		Meteorological Monitoring Station Locations		
	Install Meteorological Monitoring Stations at the Mill Site	Upgraded Pebble 1 to PSD-Quality. Moved the	Installed Webcam at Pebble 1. Installed Pebble 4, a New	Install Pebble 5 and Pebble 6, New PSD-Quality
	(Pebble 1) and the Tailings Impoundment Site (Pebble 2).	Equipment at Pebble 2 to a New, Nearby Location	PSD-Quality Meteorological Monitoring Station at the	Meteorological Monitoring Stations in the North Fork
		(Renamed Pebble 3).	Pebble 2 Site. Enabled real-time data availability at Pebble 1 and Pebble 4.	Koktuli and Upper Talarik Basins, Respectively.
			Submitted First Annual Data Report for Pebble 1 to	Submit Second Annual Data Report for Pebble 1 and First
			ADEC for Review and Approval	Annual Data Report for Pebble 4 to ADEC for Review and Approval
			Drafted Chapter 2, Climate and Meteorology, of	Update Chapter 2, Climate and Meteorology, of
			Environmental Baseline Document	Environmental Baseline Document to Include One Additional Year of Data
			Submitted Quality Assurance Project Plan (QAPP) to ADEC for Review and Approval	Update QAPP to Include Pebble 5 and Pebble 6
	Communication and Data Management	Communication and Data Management	Communication and Data Management	Communication and Data Management
	Coordination with NDM and Agencies	Coordination with NDM and Agencies	Coordination with NDM and Agencies	Coordination with NDM and Agencies
		Transporta	tion Corridor	
	Information Gathering	Information Gathering	Information Gathering	Information Gathering
	Scope, Schedule, Field Monitoring Plan	Scope, Schedule, Field Monitoring Plan	Scope, Schedule, Field Monitoring Plan	Scope, Schedule, Field Monitoring Plan
		Prepared Meteorology Chapter of 2005 Study Plan	Prepared 2006 Study Plan Summary	Prepare 2007 Study Plan Summary
		Site Visit with ADEC and EPA to Finalize PSD-Quality Meteorological Monitoring Stations Locations	Continued Monitoring at Port Site 1	Continue Monitoring at Port Site 1
		Installed a PSD-Quality Meteorological Monitoring Station at the Port Site (Port Site 1).		Install New PSD-Quality Meteorological Monitoring Stations at Williamsport and on East Side of Iliamna Bay (AC Point).
		at the Fort Site (Fort Site T).		at Williamsport and on East olde of marring Day (AOT office).
			Submitted First Annual Data Report for Port Site 1 to	Submit Second Annual Data Report for Port Site 1 to
			ADEC for Review and Approval	ADEC for Review and Approval
			Drafted Chapter 26, Climate and Meteorology, of	Update Chapter 26, Climate and Meteorology, of
			Environmental Baseline Document	Environmental Baseline Document to Include One
				Additional Year of Data
			Submitted QAPP to ADEC for review and approval	Update QAPP to Include Williamsport and AC Point.
	Communication and Data Management	Communication and Data Management	Communication and Data Management	Communication and Data Management
	Coordination with NDM and Agencies	Coordination with NDM and Agencies	Coordination with NDM and Agencies	Coordination with NDM and Agencies

ADEC = Alaska Department of Environmental Conservation EPA = U.S. Environmental Protection Agency

Table 2-2.
Pebble Project Meteorological Sampling Locations
Period-of-Record Index

Parameter	Year																							Pe	rio	d-o	f-R	ecc	ord	ΙВу	/ M	oni	itori	ing	Sta	atio	n																						
Parameter	rear						Peb	ble	1											e 2										ebb											Pek												Peb						
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Willia Opeca	2006		X				X			_	_	_	Х							$\perp$													X									X				( )	<u> </u>	<u>(</u>											_
	2007	Х	X	X	X		X	X	X	X	X	X	X												X	X	X	X	X	X	X	X	X	X	X X	XX	<b>X</b>   <b>X</b>	XX	( X	( X	X	X	X		<b>(</b> )	( )	( )	(							X	X	X	X	X
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Wind Direction	2005													X Z	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	X   X	( )	( <u>)</u>	`												X X																								
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Table 2-2.

Pebble Project Meteorological Sampling Locations

Period-of-Record Index

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#### **FIGURE**

