

Appendix I
Abbreviations and Acronyms
Glossary

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ADF&G	Alaska Department of Fish & Game
ANCSA	Alaska Native Claims Settlement Act
ANILCA	Alaska National Interest Lands Conservation Act
BLM/AFS	Bureau of Land Management Alaska Fire Service
CFR	Code of Federal Regulations
DCED	Alaska Department of Community and Economic Development
DNR	Alaska Department of Natural Resources
EA	environmental assessment
EO	executive order
GMU	game management unit
ISER	Institute for Social and Economic Research (University of Alaska)
NEPA	National Environmental Policy Act
ORV	off-road vehicle
PLO	public land order
RIT	refuge information technician
Service	U.S. Fish & Wildlife Service
System	National Wildlife Refuge System
USGS	U.S. Geological Survey

Glossary

Adequate snow cover	Snow cover of a sufficient depth to protect underlying vegetation and soil (50 CFR 36.2), Generally about 6 inches within the Kanuti NWR.
air taxi operator/transporter	A person who transports people, equipment, supplies, harvested fish and wildlife products, or other personal property by means of aircraft for compensation or with the intent or agreement to receive compensation; a transporter who provides commercial transportation services by means of aircraft. Must have a special use permit to operate on a national wildlife refuge.
allowed	Activity, use or facility is allowed under existing National Environmental Policy Act (NEPA) analysis, a specific compatibility determination, and compliance with all applicable laws and regulations of the Service, other Federal agencies and the State of Alaska.
<i>not allowed</i>	Activity, use or facility is not allowed.
alternatives	Different ways to resolve issues, achieve refuge purposes, meet refuge goals, and contribute to the National Wildlife Refuge System mission. Alternatives provide different options to respond to major issues identified during the planning process.
<i>No-Action Alternative</i>	In the context of a comprehensive conservation plan, the current management direction. With this alternative, no change from the current comprehensive conservation plan would be implemented.
<i>Preferred Alternative</i>	A proposed action in the NEPA document for the comprehensive conservation plan identifying the alternative that the Service believes best achieves planning unit purposes, vision, and goals; helps fulfill the Refuge System mission; maintains and, where appropriate, restores the ecological integrity of each refuge and the Refuge System; addresses the significant issues and mandates; and is consistent with principles of sound fish and wildlife management.

archaeological resource	Any material remains of past human life or activities that are of interest to the scientific study of historic or prehistoric peoples and their cultures. Materials which are capable of providing an understanding of past human behavior, cultural adaptation, and related topics through the application of scholarly or scientific techniques.
authorized	Activity, use, or facility allowed upon issuance of a special-use permit or other authorization.
base camp	Serves as a center of operations and overnight accommodations for people working in a remote part of the refuge (e.g. refuge staff, guides, and clients). A temporary base camp usually remains in place for the full season of use but may be removed within 48 hours. It generally consists of larger tents than do primitive camps and often has tent platforms or other rigid floors. The primary distinction between temporary base camps and primitive camps is the period of occupancy. The specific details of a temporary base camp located on refuge lands would be spelled out in the refuge special-use permit.
big-game guide	A person who is licensed by the State of Alaska to provide services, equipment, or facilities to a big-game hunter in the field. A big-game guide accompanies or is present with, personally or through an assistant, the hunter in the field. Must have a special use permit to operate on a national wildlife refuge.
big-game outfitter	A person who provides for compensation or with the intent to receive compensation, services, supplies, or facilities to a big-game hunter in the field. Does not accompany nor through an assistant, is not present with the hunter in the field. Must have a special use permit to operate on a national wildlife refuge.
biological diversity	The variety of life, including the variety of living organisms, the genetic differences among them, and the communities in which they occur (USFWS, 602 FW 1.6).

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biological integrity	Biotic composition, structure, and functioning at the genetic, organism, and community levels consistent with natural conditions, including the natural biological processes that shape genomes, organisms, and communities (USFWS, 602 FW 1.6).
campsite hardening	Actions undertaken to increase the durability of a campsite through manipulation, such as placing gravel on a place to pitch a tent or trails within the campsite. Does not include facilities normally associated with campgrounds, including outhouses, picnic tables, etc.
categorical exclusion	A category of actions that do not individually or cumulatively have a significant effect on the human environment and have been found to have no such effect in procedures adopted by a Federal agency pursuant to the National Environmental Policy Act (40 CFR 1508.4).
commercial recreational uses	Recreational uses of lands, waters, and resources for business or financial gain; includes guided recreational fishing, guided recreational hunting, other guided recreation, and air-taxi services.
commercial visitor service	Any service or activity made available for a fee, commission, brokerage, or other compensation to persons who visit a refuge, including such services as providing food, accommodations, transportation, tours, and guides.
compatible use	A proposed or existing wildlife-dependent recreational use or any other use of a refuge that, based on sound professional judgment, will not materially interfere with or detract from the fulfillment of the mission of the System or the purposes of the refuge (USFWS, 603 FW 2 2.6).
compatibility determination	A written determination signed and dated by the refuge manager and the Service regional chief signifying that a proposed or existing use of a national wildlife refuge is a compatible use or is not a compatible use. The director of the Service makes this delegation through the regional director (USFWS, 603 FW 2 2.6).

consumptive use	Use of a refuge resource that removes the resource from the refuge (e.g., killing an animal to eat, catching and keeping fish, harvesting berries or plants, or removal of mineral or other specimens).
cultural resources	Fragile nonrenewable properties, including any district, site, building, structure, or object significant in American history, architecture, archaeology, engineering, or culture. These resources are significant for information they contain or the associations they have with past people, events, or life ways (USFWS 1992).
ecological integrity	The integration of biological integrity, natural biological diversity, and environmental health; the replication of natural conditions (USFWS, 602 FW 1.6).
ecosystem	A biological community functioning together with its environment as a unit.
effects (wildlife and habitat)	
<i>long-term effects</i>	Effects occurring after or lasting longer than 5 years after implementation of the action.
<i>major effects</i>	Affecting a regional or local population of a species, or its habitat, sufficiently to cause a change in abundance or a change in distribution beyond which natural recruitment is not likely to return the population to its former abundance within several generations.
<i>minor effects</i>	Affecting the survival, reproduction, distribution, or behavior of a specific group of individuals of a population in a localized area for one generation or less without affecting the regional population. Habitat composition and structure remain unchanged; habitat quality, however, may be affected by indirect actions. (e.g., disturbance or displacement affecting a specific group of individuals that may result in altered use of an area).
<i>moderate effects</i>	Affecting a local population, or habitat quality and composition in a localized area, sufficiently to cause a change in abundance or distribution for more than

	one generation, but unlikely to affect the integrity of the regional population over the long term.
<i>negligible effects</i>	Temporary effects that do not result in a change in the survival, reproduction, distribution, or behavior of individuals. The ability of the habitat to support populations would remain unchanged (e.g., temporary disturbance of a specific group of individuals that does not result in a change in use of an area).
<i>short-term effects</i>	Effects are anticipated to occur and end within five years from implementation of the action.
environmental assessment	A concise public document that provides a sufficient analysis for determining whether to prepare an environmental impact statement (EIS) or a finding of no significant impact. It also aids an agency's compliance with NEPA when no EIS is necessary (40 CFR 1508.9).
environmental health	Abiotic (the nonliving factors of the environment including light, temperature, and atmosphere) composition, structure, and functioning of the environment consistent with natural conditions, including the natural abiotic processes that shape the environment (USFWS, 602 FW 1.6).
environmental impact statement	A detailed written statement, required by section 102(2)(C) of the National Environmental Policy Act (NEPA), analyzing the environmental impacts of a proposed action, adverse effects of the project that cannot be avoided, alternative courses of action, short-term uses of the environment versus the maintenance and enhancement of long-term productivity, and any irreversible and irretrievable commitment of resources (40 CFR 1508.11).
goal	A descriptive, open-ended, and often broad statement of desired future conditions that conveys purposes but does not define measurable units (USFWS, 620 FW 1.6).
guide	Any person who has a special-use permit to provide a commercial visitor service for hire on a refuge. This term does not generally apply to air-taxi operators who only provide transportation services.

habitat	The physical and biological resources required by an organism for its survival and reproduction; these requirements are species-specific. Food and cover are major components of habitat and must extend beyond the requirements of the individual to include a sufficient area capable of supporting a viable population.
haulout	A location on land or sea ice onto which walrus, sea lions, and/or seals emerge from the water to rest.
helicopter use for recreation access	Use of helicopters for other than official government management activities, search and rescue, or other authorized activities.
incidental uses	Recreational or public uses of refuge lands, waters and/or resources that are secondary to, or of less importance than, the primary recreational use a visitor is participating in. An incidental use may or may not support a primary use.
issue	Any unsettled matter that requires a management decision (e.g., a Service initiative, opportunity, resource management problem, a threat to the resources of the unit, conflict in uses, public concern, or the presence of an undesirable resource condition) (USFWS, 602 FW 1.6).
“leave no trace” principles	Principles of outdoor recreation designed to minimize effects on the natural environment and other visitors. These principles are: (1) plan ahead and prepare, (2) travel and camp on durable surfaces, (3) dispose of waste properly, (4) leave what you find, (5) minimize campfire impacts, (6) respect wildlife, and (7) be considerate of other visitors (http://www.Int.org , accessed May 11, 2004).
national wildlife refuge	A designated area of land, water, or an interest in land or water within the National Wildlife Refuge System; does not include coordination areas. Find a complete listing of all units of the Refuge System in the current Annual Report of Lands Under Control of the U.S. Fish and Wildlife Service (USFWS 2004).

native species	A species, subspecies, or distinct population that occurs within its natural range or natural zone of potential dispersal (i.e., the geographic area the species occupies naturally or would occupy in the absence of direct or indirect human activity or an environmental catastrophe). This definition recognizes that ecosystems and natural ranges are not static; they can and do evolve over time. Thus a species may naturally extend its range onto (or within) a refuge and still be considered native.
navigable waters	Under Federal law, for the purpose of determining ownership of submerged lands beneath inland water bodies not reserved at the date of statehood, navigable waters are waters used or susceptible to being used in their ordinary condition as highways of commerce over which trade and travel are, or may be conducted, in the customary modes of trade and travel on water. In situations where navigability and the ownership of submerged lands are disputed, the final authority for determining navigability rests with the Federal courts.
National Environmental Policy Act	This act, promulgated in 1969, requires all Federal agencies to disclose the environmental effects of their actions, incorporate environmental information, and use public participation in the planning and implementation of all actions. Federal agencies must integrate NEPA with other planning requirements and must prepare appropriate NEPA documents to facilitate better environmental decision-making (from 40 CFR 1500). The law also established the Council on Environmental Quality to implement the law and to monitor compliance with the law.
nonconsumptive uses	Recreational activities (e.g., hiking, photography, and wildlife observation) that do not involve the taking or catching of fish, wildlife, or other natural resources.
noncommercial recreational uses	Recreational uses of lands, waters, and resources not for business or financial gain, including recreational fishing and hunting, boating and

	floating, camping, hiking, photography, and sightseeing.
nonnative species	A species, subspecies, or distinct population that has been introduced by humans (intentionally or unintentionally) outside its natural range or natural zone of potential dispersal.
objective	A concise statement of what we want to achieve, how much we want to achieve it, when and where we want to achieve it, and who is responsible for the work. Objectives derive from goals and provide the basis for determining strategies, monitoring refuge accomplishments, and evaluating the success of strategies. (USFWS, 602 FW 1.6).
ordinary high-water mark	The line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding area (33 CFR 328.3[e]).
proposed action	The alternative that best achieves refuge purposes, vision and goals; helps fulfill the mission of the Refuge System; maintains, and where appropriate, restores the ecological integrity of the refuge and the Refuge System; addresses the significant issues and mandates, and is consistent with principles of sound fish and wildlife management. The proposed action is, for all practical purposes, the draft comprehensive conservation plan for the refuge (USFWS, S 602 FW 3.4C). See also “preferred alternative” on page xv.
prospectus	The document that the Service uses in soliciting competition to award permits for commercial visitor services on a refuge.
public	Individuals, organizations, and groups; officials of Federal, state, and local government agencies; Indian tribes; Native organizations; and foreign nations. Public may include anyone outside the core planning team. It includes those who may or may

not have indicated an interest in Service issues and those who do or do not realize that Service decisions may affect them.

public involvement

A process that offers affected and interested individuals and organizations opportunities to become informed about, and to express their opinions on, Service actions and policies. In the process, these public views are studied thoroughly and are thoughtfully considered in shaping decisions for refuge management.

purposes of the refuge

The purposes specified in or derived from the law, proclamation, executive order, agreement, public land order, donation document, or administrative memorandum establishing, authorizing, or expanding a refuge, refuge unit, or refuge subunit (USFWS, 602 FW 1.6).

quality recreation program

A refuge quality recreation program promotes safety of participants, other visitors, and facilities; reliable and reasonable opportunities for the public to experience wildlife; refuge goals and objectives; resource stewardship and conservation; public understanding and increased public appreciation of America's natural resources and the Service's role in managing and protecting these resources; compliance with applicable laws and regulations and responsible behavior; accessibility and availability to a broad spectrum of the American people; facilities that blend into the natural setting; and the use of feedback from visitors to help define and evaluate programs (USFWS, 605 FW 1.6, in draft).

record of decision (ROD)

A concise public record of a decision prepared by the Federal agency, pursuant to NEPA, that contains a statement of the decision, identification of all alternatives considered, identification of the environmentally preferable alternative, a statement whether all practical means to avoid or minimize environmental harm from the alternative selected have been adopted (and if not, why they were not), and a summary of monitoring and enforcement where applicable for any mitigation (40 CFR 1505.2).

recreation guide	A commercial operator who accompanies clients on the refuge for photography, sightseeing, or other activities not related to hunting or fishing, for either day or overnight trips.
recreational fishing	Taking or attempting to take for personal use, not for sale or barter, any fish by hook and line held in the hand or attached to a pole or rod that is held in the hand or is closely attended.
recreational hunting	Taking or attempting to take for personal use, not for sale or barter, a game animal (as defined by the regulatory agency) by any means allowed by the regulatory agency.
recreational fishing or hunting guide	A commercial operator who accompanies recreational fishing or hunting clients on the refuge for day or overnight trips. Must have a special use permit to operate on the refuge.
scoping	An early and open process with the public for determining the range of issues and the significant issues related to a proposed action (40 CFR 1501.7).
special use permit	A U.S. Fish and Wildlife Service authorization required for all commercial uses of refuge lands and waters.
step-down management plan	A plan that provides specific guidance on management subjects (e.g., habitat, public use, fire, safety) or groups of related subjects. It describes strategies and implementation schedules for meeting comprehensive conservation plan goals and objectives.
subsistence uses	The customary and traditional uses by rural Alaska residents of wild, renewable resources for direct personal or family consumption as food, shelter, fuel, clothing, tools, or transportation; for the making and selling of handicraft articles out of nonedible byproducts of fish and wildlife resources taken for personal or family consumption; for barter or sharing for personal or family consumption; and for customary trade (from Section 803 of the Alaska National Interest Lands Conservation Act).

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unguided visitor	A visitor who arranges, organizes and conducts his or her own trip without the assistance of a guide.
use day	A period of one calendar day (24 hours), or portion thereof, for each entity using a resource. When employed as a measure of human use, it is called a visitor, visitor use day, or client use day.
visitor contact station	A staffed or unstaffed facility where the public can learn about the refuge and its resources.
vision statement	A concise statement of the desired future condition of the planning unit, based primarily on the System mission, specific refuge purposes, and other relevant mandates (USFWS, 602 FW 1.6).
wilderness	An area essentially undisturbed by human activity, together with its natural ecosystem.
wildlife-dependent recreation	A use of a refuge involving hunting, fishing, wildlife observation and photography, or environmental education and interpretation. These are the six priority public uses of the Refuge System, as established in the National Wildlife Refuge System Administration Act, as amended. Wildlife-dependent recreational uses, other than the six priority public uses, are those that depend on the presence of wildlife.

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